

 ANALYTICAL REPORT**PREPARED FOR**

Attn: Jessica Taylor
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia NY 11749

Generated 1/9/2023 1:31 PM

JOB DESCRIPTION

Inwood - Lot 21

JOB NUMBER

460-271837-1

Eurofins Edison

Job Notes

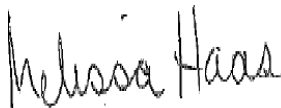
The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Edison and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Edison Project Manager or designee who has signed this report.

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

Compliance Statement

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

Authorization



Generated
1/9/2023 1:31 PM

Authorized for release by
Melissa Haas, Senior Project Manager
Melissa.Haas@et.eurofinsus.com
203 308-0880

Table of Contents

Cover Title Page	1
Data Summaries	5
Report Narrative	5
Sample Summary	7
Detection Summary	8
Method Summary	9
Client Sample Results	10
Isotope Dilution Summary	15
QC Sample Results	17
Definitions	25
QC Association	26
Chronicle	27
Certification Summary	29
Organic Sample Data	30
LCMS	30
Method PFC IDA	30
Method PFC IDA QC Summary	31
Method PFC IDA Sample Data	51
Standards Data	239
Method PFC IDA ICAL Data	239
Method PFC IDA CCAL Data	571
Raw QC Data	837
Method PFC IDA Blank Data	837
Method PFC IDA LCS/LCSD Data	975
Method PFC IDA MS/MSD Data	1060
Method PFC IDA Run Logs	1119

Table of Contents

Method PFC IDA Prep Data	1122
Inorganic Sample Data	1128
General Chemistry Data	1128
Gen Chem Cover Page	1129
Gen Chem MDL	1130
Gen Chem Analysis Run Log	1131
Gen Chem Raw Data	1132
Gen Chem Prep Data	1133
Subcontracted Data	1134
Shipping and Receiving Documents	1135
Client Chain of Custody	1136
Sample Receipt Checklist	1141

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 21

Report Number: 460-271837-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/20/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

Receipt Exceptions

No TAT recorded on COC.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Samples BCS-21-21_(10-10.5)P (460-271837-1), BCS-21-22_(10-10.5)P (460-271837-2), BCS-21-23_(10-10.5)P (460-271837-3) and BCS-21-24_(10-10.5)P (460-271837-4) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 12/28/2022 and analyzed on 12/30/2022.

Sample FB-21_122022P (460-271837-5) was analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 12/29/2022 and analyzed on 12/31/2022.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 200-187142.

Method 537 (modified): d5-NEtFOSAA and M2-8:2 FTS Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following samples: (480-204901-A-3-A) and (480-204901-A-3-C MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): d3-NMeFOSAA, d5-NEtFOSAA, M2-6:2 FTS and M2-8:2 FTS Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following sample: (480-204901-A-3-B MS). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples BCS-21-21_(10-10.5)P (460-271837-1), BCS-21-22_(10-10.5)P (460-271837-2), BCS-21-23_(10-10.5)P (460-271837-3) and BCS-21-24_(10-10.5)P (460-271837-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 12/28/2022.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-271837-1	BCS-21-21_(10-10.5)P	Solid	12/20/22 13:05	12/20/22 19:00
460-271837-2	BCS-21-22_(10-10.5)P	Solid	12/20/22 13:15	12/20/22 19:00
460-271837-3	BCS-21-23_(10-10.5)P	Solid	12/20/22 13:25	12/20/22 19:00
460-271837-4	BCS-21-24_(10-10.5)P	Solid	12/20/22 13:35	12/20/22 19:00
460-271837-5	FB-21_122022P	Water	12/20/22 14:05	12/20/22 19:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-21_(10-10.5)P

Lab Sample ID: 460-271837-1

No Detections.

Client Sample ID: BCS-21-22_(10-10.5)P

Lab Sample ID: 460-271837-2

No Detections.

Client Sample ID: BCS-21-23_(10-10.5)P

Lab Sample ID: 460-271837-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
8:2 FTS	0.063	J	2.78	0.051	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: BCS-21-24_(10-10.5)P

Lab Sample ID: 460-271837-4

No Detections.

Client Sample ID: FB-21_122022P

Lab Sample ID: 460-271837-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Moisture	Percent Moisture	EPA	EET BUR
3535	Solid-Phase Extraction (SPE)	SW846	EET BUR
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET 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:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-21_(10-10.5)P

Lab Sample ID: 460-271837-1

Date Collected: 12/20/22 13:05

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 73.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.65	U	0.65	0.43	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.072	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.060	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.051	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorooctanoic acid (PFOA)	0.26	U	0.26	0.076	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.037	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.033	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.033	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.034	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.043	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.054	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.025	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.61	U	2.61	0.14	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.61	U	2.61	0.11	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
6:2 FTS	2.61	U	2.61	0.074	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1
8:2 FTS	2.61	U	2.61	0.048	ug/Kg	☼	12/28/22 09:05	12/30/22 14:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C4 PFHpA	93		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C4 PFOA	92		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C4 PFOS	87		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C5 PFNA	96		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C4 PFBA	86		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C2 PFHxA	91		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C2 PFDA	97		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C2 PFUnA	95		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C2 PFDoA	90		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C8 FOSA	80		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C5 PFPeA	87		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C2 PFTeDA	97		50 - 150	12/28/22 09:05	12/30/22 14:55	1
d3-NMeFOSAA	86		50 - 150	12/28/22 09:05	12/30/22 14:55	1
d5-NEtFOSAA	92		50 - 150	12/28/22 09:05	12/30/22 14:55	1
M2-6:2 FTS	108		50 - 150	12/28/22 09:05	12/30/22 14:55	1
M2-8:2 FTS	109		50 - 150	12/28/22 09:05	12/30/22 14:55	1
13C3 PFBS	85		50 - 150	12/28/22 09:05	12/30/22 14:55	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-22_(10-10.5)P

Lab Sample ID: 460-271837-2

Date Collected: 12/20/22 13:15

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 71.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.062	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.72	U	2.72	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.72	U	2.72	0.11	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
6:2 FTS	2.72	U	2.72	0.077	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
8:2 FTS	2.72	U	2.72	0.050	ug/Kg	☼	12/28/22 09:05	12/30/22 15:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	82		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C4 PFHpA	90		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C4 PFOA	88		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C4 PFOS	79		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C5 PFNA	87		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C4 PFBA	84		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C2 PFHxA	83		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C2 PFDA	86		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C2 PFUnA	91		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C2 PFDoA	90		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C8 FOSA	69		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C5 PFPeA	82		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C2 PFTeA	98		50 - 150				12/28/22 09:05	12/30/22 15:03	1
d3-NMeFOSAA	77		50 - 150				12/28/22 09:05	12/30/22 15:03	1
d5-NEtFOSAA	87		50 - 150				12/28/22 09:05	12/30/22 15:03	1
M2-6:2 FTS	105		50 - 150				12/28/22 09:05	12/30/22 15:03	1
M2-8:2 FTS	102		50 - 150				12/28/22 09:05	12/30/22 15:03	1
13C3 PFBS	81		50 - 150				12/28/22 09:05	12/30/22 15:03	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-23_(10-10.5)P

Lab Sample ID: 460-271837-3

Date Collected: 12/20/22 13:25

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 70.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.46	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluoropentanoic acid (PFPeA)	0.28	U	0.28	0.076	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorohexanoic acid (PFHxA)	0.28	U	0.28	0.064	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluoroheptanoic acid (PFHpA)	0.28	U	0.28	0.054	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorooctanoic acid (PFOA)	0.28	U	0.28	0.081	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorononanoic acid (PFNA)	0.28	U	0.28	0.047	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorodecanoic acid (PFDA)	0.28	U	0.28	0.039	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluoroundecanoic acid (PFUnA)	0.28	U	0.28	0.038	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorododecanoic acid (PFDoA)	0.28	U	0.28	0.035	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorotridecanoic acid (PFTriA)	0.28	U	0.28	0.035	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	0.28	0.036	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorobutanesulfonic acid (PFBS)	0.28	U	0.28	0.046	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.28	U	0.28	0.057	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluoroheptanesulfonic acid (PFHpS)	0.28	U	0.28	0.032	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorooctanesulfonic acid (PFOS)	0.28	U	0.28	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorodecanesulfonic acid (PFDS)	0.28	U	0.28	0.026	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
Perfluorooctanesulfonamide (FOSA)	0.28	U	0.28	0.047	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.78	U	2.78	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.78	U	2.78	0.12	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
6:2 FTS	2.78	U	2.78	0.079	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1
8:2 FTS	0.063	J	2.78	0.051	ug/Kg	☼	12/28/22 09:05	12/30/22 15:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	85		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C4 PFHpA	88		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C4 PFOA	88		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C4 PFOS	80		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C5 PFNA	88		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C4 PFBA	82		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C2 PFHxA	86		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C2 PFDA	94		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C2 PFUnA	89		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C2 PFDoA	89		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C8 FOSA	72		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C5 PFPeA	81		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C2 PFTeA	101		50 - 150	12/28/22 09:05	12/30/22 15:12	1
d3-NMeFOSAA	77		50 - 150	12/28/22 09:05	12/30/22 15:12	1
d5-NEtFOSAA	84		50 - 150	12/28/22 09:05	12/30/22 15:12	1
M2-6:2 FTS	105		50 - 150	12/28/22 09:05	12/30/22 15:12	1
M2-8:2 FTS	100		50 - 150	12/28/22 09:05	12/30/22 15:12	1
13C3 PFBS	82		50 - 150	12/28/22 09:05	12/30/22 15:12	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-24_(10-10.5)P

Lab Sample ID: 460-271837-4

Date Collected: 12/20/22 13:35

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 72.8

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.66	U	0.66	0.44	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.073	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.061	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.052	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.077	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.045	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.037	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.036	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.033	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.033	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.044	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.054	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.025	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.045	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.66	U	2.66	0.15	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.66	U	2.66	0.11	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
6:2 FTS	2.66	U	2.66	0.076	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
8:2 FTS	2.66	U	2.66	0.049	ug/Kg	☼	12/28/22 09:05	12/30/22 15:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	81		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C4 PFHpA	85		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C4 PFOA	87		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C4 PFOS	69		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C5 PFNA	87		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C4 PFBA	77		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C2 PFHxA	81		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C2 PFDA	83		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C2 PFUnA	79		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C2 PFDoA	81		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C8 FOSA	63		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C5 PFPeA	77		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C2 PFTeA	67		50 - 150				12/28/22 09:05	12/30/22 15:28	1
d3-NMeFOSAA	66		50 - 150				12/28/22 09:05	12/30/22 15:28	1
d5-NEtFOSAA	72		50 - 150				12/28/22 09:05	12/30/22 15:28	1
M2-6:2 FTS	88		50 - 150				12/28/22 09:05	12/30/22 15:28	1
M2-8:2 FTS	78		50 - 150				12/28/22 09:05	12/30/22 15:28	1
13C3 PFBS	78		50 - 150				12/28/22 09:05	12/30/22 15:28	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: FB-21_122022P

Lab Sample ID: 460-271837-5

Date Collected: 12/20/22 14:05

Matrix: Water

Date Received: 12/20/22 19:00

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.34	U	4.34	1.04	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluoropentanoic acid (PFPeA)	1.74	U	1.74	0.59	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorohexanoic acid (PFHxA)	1.74	U	1.74	0.56	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluoroheptanoic acid (PFHpA)	1.74	U	1.74	0.47	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorooctanoic acid (PFOA)	1.74	U	1.74	0.66	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorononanoic acid (PFNA)	1.74	U	1.74	0.43	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorodecanoic acid (PFDA)	1.74	U	1.74	0.40	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluoroundecanoic acid (PFUnA)	1.74	U	1.74	0.48	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorododecanoic acid (PFDoA)	1.74	U	1.74	0.43	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorotridecanoic acid (PFTriA)	1.74	U	1.74	0.42	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorotetradecanoic acid (PFTeA)	1.74	U	1.74	0.56	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorobutanesulfonic acid (PFBS)	1.74	U	1.74	0.54	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorohexanesulfonic acid (PFHxS)	1.74	U	1.74	0.48	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluoroheptanesulfonic acid (PFHpS)	1.74	U	1.74	0.36	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorodecanesulfonic acid (PFDS)	1.74	U	1.74	0.35	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorooctanesulfonic acid (PFOS)	1.74	U	1.74	0.74	ng/L		12/29/22 13:39	12/31/22 01:01	1
Perfluorooctanesulfonamide (FOSA)	1.74	U	1.74	0.80	ng/L		12/29/22 13:39	12/31/22 01:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.34	U	4.34	1.65	ng/L		12/29/22 13:39	12/31/22 01:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.34	U	4.34	1.39	ng/L		12/29/22 13:39	12/31/22 01:01	1
6:2 FTS	4.34	U	4.34	1.13	ng/L		12/29/22 13:39	12/31/22 01:01	1
8:2 FTS	1.74	U	1.74	0.67	ng/L		12/29/22 13:39	12/31/22 01:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	76		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C4 PFBA	86		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C5 PFPeA	85		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C2 PFHxA	94		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C4 PFHpA	95		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C4 PFOA	92		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C5 PFNA	90		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C2 PFDA	92		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C2 PFUnA	90		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C2 PFDoA	92		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C2 PFTeA	89		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C3 PFBS	88		50 - 150	12/29/22 13:39	12/31/22 01:01	1
18O2 PFHxS	86		50 - 150	12/29/22 13:39	12/31/22 01:01	1
13C4 PFOS	81		50 - 150	12/29/22 13:39	12/31/22 01:01	1
d3-NMeFOSAA	79		50 - 150	12/29/22 13:39	12/31/22 01:01	1
d5-NEtFOSAA	87		50 - 150	12/29/22 13:39	12/31/22 01:01	1
M2-6:2 FTS	104		50 - 150	12/29/22 13:39	12/31/22 01:01	1
M2-8:2 FTS	89		50 - 150	12/29/22 13:39	12/31/22 01:01	1

Eurofins Edison

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

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 (50-150)	PFHxA (50-150)	PFDA (50-150)
460-271837-1	BCS-21-21_(10-10.5)P	88	93	92	87	96	86	91	97
460-271837-2	BCS-21-22_(10-10.5)P	82	90	88	79	87	84	83	86
460-271837-3	BCS-21-23_(10-10.5)P	85	88	88	80	88	82	86	94
460-271837-4	BCS-21-24_(10-10.5)P	81	85	87	69	87	77	81	83
480-204901-A-3-B MS	Matrix Spike	88	91	97	85	107	87	88	112
480-204901-A-3-C MSD	Matrix Spike Duplicate	86	91	98	88	104	86	87	113
LCS 200-187080/2-A	Lab Control Sample	88	87	88	87	89	77	86	97
MB 200-187080/1-A	Method Blank	91	91	91	85	91	81	89	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFOSA (50-150)	PFPeA (50-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (50-150)
460-271837-1	BCS-21-21_(10-10.5)P	95	90	80	87	97	86	92	108
460-271837-2	BCS-21-22_(10-10.5)P	91	90	69	82	98	77	87	105
460-271837-3	BCS-21-23_(10-10.5)P	89	89	72	81	101	77	84	105
460-271837-4	BCS-21-24_(10-10.5)P	79	81	63	77	67	66	72	88
480-204901-A-3-B MS	Matrix Spike	116	105	75	85	88	152 *	169 *	154 *
480-204901-A-3-C MSD	Matrix Spike Duplicate	116	99	73	87	79	146	168 *	150
LCS 200-187080/2-A	Lab Control Sample	82	79	69	77	90	78	78	103
MB 200-187080/1-A	Method Blank	82	76	68	83	91	78	77	109

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (50-150)	C3PFBS (50-150)
460-271837-1	BCS-21-21_(10-10.5)P	109	85
460-271837-2	BCS-21-22_(10-10.5)P	102	81
460-271837-3	BCS-21-23_(10-10.5)P	100	82
460-271837-4	BCS-21-24_(10-10.5)P	78	78
480-204901-A-3-B MS	Matrix Spike	266 *	84
480-204901-A-3-C MSD	Matrix Spike Duplicate	259 *	84
LCS 200-187080/2-A	Lab Control Sample	95	84
MB 200-187080/1-A	Method Blank	91	89

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

Eurofins Edison

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC

Job ID: 460-271837-1

Project/Site: Inwood - Lot 21

C3PFBS = 13C3 PFBS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (50-150)	PFBA (50-150)	PFPeA (50-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
460-271837-5	FB-21_122022P	76	86	85	94	95	92	90	92
LCS 200-187142/2-A	Lab Control Sample	76	89	91	100	105	98	102	100
LCSD 200-187142/3-A	Lab Control Sample Dup	73	93	96	105	106	99	100	103
MB 200-187142/1-A	Method Blank	88	94	95	104	106	104	108	112

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
460-271837-5	FB-21_122022P	90	92	89	88	86	81	79	87
LCS 200-187142/2-A	Lab Control Sample	96	90	93	92	96	89	88	90
LCSD 200-187142/3-A	Lab Control Sample Dup	96	81	84	94	103	95	90	85
MB 200-187142/1-A	Method Blank	117	106	102	97	101	100	100	108

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (50-150)	M282FTS (50-150)
460-271837-5	FB-21_122022P	104	89
LCS 200-187142/2-A	Lab Control Sample	113	101
LCSD 200-187142/3-A	Lab Control Sample Dup	114	104
MB 200-187142/1-A	Method Blank	120	115

Surrogate Legend

PFOSA = 13C8 FOSA
 PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-187080/1-A

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
6:2 FTS	2.00	U	2.00	0.057	ug/Kg		12/28/22 09:05	12/30/22 13:25	1
8:2 FTS	2.00	U	2.00	0.037	ug/Kg		12/28/22 09:05	12/30/22 13:25	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C4 PFHpA	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C4 PFOA	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C5 PFNA	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C4 PFBA	81		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C2 PFHxA	89		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C2 PFDA	94		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C2 PFUnA	82		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹⁸ O2 PFHxS	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C2 PFDoA	76		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C4 PFOS	85		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C8 FOSA	68		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C5 PFPeA	83		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C2 PFTeDA	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1
d3-NMeFOSAA	78		50 - 150	12/28/22 09:05	12/30/22 13:25	1
d5-NEtFOSAA	77		50 - 150	12/28/22 09:05	12/30/22 13:25	1
M2-6:2 FTS	109		50 - 150	12/28/22 09:05	12/30/22 13:25	1
¹³ C3 PFBS	89		50 - 150	12/28/22 09:05	12/30/22 13:25	1
M2-8:2 FTS	91		50 - 150	12/28/22 09:05	12/30/22 13:25	1

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: LCS 200-187080/2-A

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	1.881		ug/Kg		94	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	1.904		ug/Kg		95	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	1.775		ug/Kg		89	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	1.937		ug/Kg		97	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	1.858		ug/Kg		93	60 - 140
Perfluorononanoic acid (PFNA)	2.00	1.918		ug/Kg		96	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	1.824		ug/Kg		91	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	2.014		ug/Kg		101	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	1.846		ug/Kg		92	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	1.990		ug/Kg		99	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	1.847		ug/Kg		92	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.566		ug/Kg		89	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.697		ug/Kg		93	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.842		ug/Kg		97	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.582		ug/Kg		82	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.696		ug/Kg		91	60 - 140
Perfluorooctanesulfonamide (FOSA)	2.00	1.893		ug/Kg		95	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.042		ug/Kg		102	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.848	J	ug/Kg		92	60 - 140
6:2 FTS	1.90	1.877	J	ug/Kg		99	50 - 150
8:2 FTS	1.92	1.864	J	ug/Kg		97	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	87		50 - 150
13C4 PFOA	88		50 - 150
13C5 PFNA	89		50 - 150
13C4 PFBA	77		50 - 150
13C2 PFHxA	86		50 - 150
13C2 PFDA	97		50 - 150
13C2 PFUnA	82		50 - 150
18O2 PFHxS	88		50 - 150
13C2 PFDoA	79		50 - 150
13C4 PFOS	87		50 - 150
13C8 FOSA	69		50 - 150
13C5 PFPeA	77		50 - 150
13C2 PFTeDA	90		50 - 150
d3-NMeFOSAA	78		50 - 150
d5-NEtFOSAA	78		50 - 150
M2-6:2 FTS	103		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: LCS 200-187080/2-A

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187080

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C3 PFBS	84		50 - 150
M2-8:2 FTS	95		50 - 150

Lab Sample ID: 480-204901-A-3-B MS

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 187080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.55	U	2.15	2.087		ug/Kg	☼	97	60 - 140
Perfluoropentanoic acid (PFPeA)	0.22	U	2.15	2.125		ug/Kg	☼	99	60 - 140
Perfluorohexanoic acid (PFHxA)	0.22	U	2.15	2.097		ug/Kg	☼	98	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.22	U	2.15	1.991		ug/Kg	☼	93	60 - 140
Perfluorooctanoic acid (PFOA)	0.22	U	2.15	2.160		ug/Kg	☼	100	60 - 140
Perfluorononanoic acid (PFNA)	0.22	U	2.15	2.097		ug/Kg	☼	98	60 - 140
Perfluorodecanoic acid (PFDA)	0.22	U	2.15	2.064		ug/Kg	☼	96	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.22	U	2.15	2.000		ug/Kg	☼	93	60 - 140
Perfluorododecanoic acid (PFDoA)	0.22	U	2.15	2.016		ug/Kg	☼	94	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.22	U	2.15	2.031		ug/Kg	☼	94	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.22	U	2.15	2.008		ug/Kg	☼	93	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.22	U	1.90	1.852		ug/Kg	☼	97	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	1.96	1.916		ug/Kg	☼	98	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.22	U	2.05	2.048		ug/Kg	☼	100	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.22	U	2.07	2.166		ug/Kg	☼	105	60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.22	U	1.99	1.909		ug/Kg	☼	96	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.22	U	2.15	2.089		ug/Kg	☼	97	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.20	U	2.15	2.165		ug/Kg	☼	101	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.20	U	2.15	2.069	J	ug/Kg	☼	96	60 - 140
6:2 FTS	2.20	U	2.04	2.190		ug/Kg	☼	107	50 - 150
8:2 FTS	2.20	U	2.06	2.251		ug/Kg	☼	109	60 - 140

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFHpA	91		50 - 150
13C4 PFOA	97		50 - 150
13C5 PFNA	107		50 - 150
13C4 PFBA	87		50 - 150
13C2 PFHxA	88		50 - 150
13C2 PFDA	112		50 - 150
13C2 PFUnA	116		50 - 150
18O2 PFHxS	88		50 - 150
13C2 PFDoA	105		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: 480-204901-A-3-B MS

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 187080

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFOS	85		50 - 150
13C8 FOSA	75		50 - 150
13C5 PFPeA	85		50 - 150
13C2 PFTeDA	88		50 - 150
d3-NMeFOSAA	152	*	50 - 150
d5-NEtFOSAA	169	*	50 - 150
M2-6:2 FTS	154	*	50 - 150
13C3 PFBS	84		50 - 150
M2-8:2 FTS	266	*	50 - 150

Lab Sample ID: 480-204901-A-3-C MSD

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 187080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.55	U	2.21	2.069		ug/Kg	☼	94	60 - 140	1	30
Perfluoropentanoic acid (PFPeA)	0.22	U	2.21	2.111		ug/Kg	☼	96	60 - 140	1	30
Perfluorohexanoic acid (PFHxA)	0.22	U	2.21	2.113		ug/Kg	☼	96	60 - 140	1	30
Perfluoroheptanoic acid (PFHpA)	0.22	U	2.21	2.018		ug/Kg	☼	92	60 - 140	1	30
Perfluorooctanoic acid (PFOA)	0.22	U	2.21	2.082		ug/Kg	☼	94	60 - 140	4	30
Perfluorononanoic acid (PFNA)	0.22	U	2.21	2.038		ug/Kg	☼	92	60 - 140	3	30
Perfluorodecanoic acid (PFDA)	0.22	U	2.21	2.005		ug/Kg	☼	91	60 - 140	3	30
Perfluoroundecanoic acid (PFUnA)	0.22	U	2.21	1.984		ug/Kg	☼	90	60 - 140	1	30
Perfluorododecanoic acid (PFDoA)	0.22	U	2.21	2.106		ug/Kg	☼	96	60 - 140	4	30
Perfluorotridecanoic acid (PFTriA)	0.22	U	2.21	1.988		ug/Kg	☼	90	60 - 140	2	30
Perfluorotetradecanoic acid (PFTeA)	0.22	U	2.21	1.964		ug/Kg	☼	89	60 - 140	2	30
Perfluorobutanesulfonic acid (PFBS)	0.22	U	1.95	1.836		ug/Kg	☼	94	60 - 140	1	30
Perfluorohexanesulfonic acid (PFHxS)	0.22	U	2.01	1.990		ug/Kg	☼	99	60 - 140	4	30
Perfluoroheptanesulfonic acid (PFHpS)	0.22	U	2.10	1.943		ug/Kg	☼	93	60 - 140	5	30
Perfluorodecanesulfonic acid (PFDS)	0.22	U	2.13	1.963		ug/Kg	☼	92	60 - 140	10	30
Perfluorooctanesulfonic acid (PFOS)	0.22	U	2.05	1.812		ug/Kg	☼	89	60 - 140	5	30
Perfluorooctanesulfonamide (FOSA)	0.22	U	2.21	2.032		ug/Kg	☼	92	60 - 140	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.20	U	2.21	2.181	J	ug/Kg	☼	99	60 - 140	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.20	U	2.21	2.104	J	ug/Kg	☼	95	60 - 140	2	30
6:2 FTS	2.20	U	2.09	2.118	J	ug/Kg	☼	101	50 - 150	3	30
8:2 FTS	2.20	U	2.11	2.231		ug/Kg	☼	106	60 - 140	1	30
	MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
13C4 PFHpA	91		50 - 150								
13C4 PFOA	98		50 - 150								

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: 480-204901-A-3-C MSD

Matrix: Solid

Analysis Batch: 187177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 187080

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C5 PFNA	104		50 - 150
13C4 PFBA	86		50 - 150
13C2 PFHxA	87		50 - 150
13C2 PFDA	113		50 - 150
13C2 PFUnA	116		50 - 150
18O2 PFHxS	86		50 - 150
13C2 PFDoA	99		50 - 150
13C4 PFOS	88		50 - 150
13C8 FOSA	73		50 - 150
13C5 PFPeA	87		50 - 150
13C2 PFTeDA	79		50 - 150
d3-NMeFOSAA	146		50 - 150
d5-NEtFOSAA	168 *		50 - 150
M2-6:2 FTS	150		50 - 150
13C3 PFBS	84		50 - 150
M2-8:2 FTS	259 *		50 - 150

Lab Sample ID: MB 200-187142/1-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.20	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.68	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.65	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.54	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.76	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.49	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.55	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.49	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.48	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.64	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.62	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.55	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.41	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.40	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.85	ng/L		12/29/22 13:39	12/30/22 22:33	1
Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.92	ng/L		12/29/22 13:39	12/30/22 22:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	1.90	ng/L		12/29/22 13:39	12/30/22 22:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	1.60	ng/L		12/29/22 13:39	12/30/22 22:33	1
6:2 FTS	5.00	U	5.00	1.30	ng/L		12/29/22 13:39	12/30/22 22:33	1
8:2 FTS	2.00	U	2.00	0.77	ng/L		12/29/22 13:39	12/30/22 22:33	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	106		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C4 PFOA	104		50 - 150	12/29/22 13:39	12/30/22 22:33	1

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: MB 200-187142/1-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187142

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C5 PFNA	108		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C4 PFBA	94		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C2 PFHxA	104		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C2 PFDA	112		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C2 PFUnA	117		50 - 150	12/29/22 13:39	12/30/22 22:33	1
18O2 PFHxS	101		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C2 PFDoA	106		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C4 PFOS	100		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C8 FOSA	88		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C5 PFPeA	95		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C2 PFTeDA	102		50 - 150	12/29/22 13:39	12/30/22 22:33	1
d3-NMeFOSAA	100		50 - 150	12/29/22 13:39	12/30/22 22:33	1
d5-NEtFOSAA	108		50 - 150	12/29/22 13:39	12/30/22 22:33	1
M2-6:2 FTS	120		50 - 150	12/29/22 13:39	12/30/22 22:33	1
13C3 PFBS	97		50 - 150	12/29/22 13:39	12/30/22 22:33	1
M2-8:2 FTS	115		50 - 150	12/29/22 13:39	12/30/22 22:33	1

Lab Sample ID: LCS 200-187142/2-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	39.12		ng/L		98	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.97		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	37.84		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	36.73		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.53		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.14		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	39.71		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.60		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	37.58		ng/L		94	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	35.23		ng/L		88	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	34.68		ng/L		87	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	35.10		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.59		ng/L		103	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	38.1	40.25		ng/L		106	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	32.15		ng/L		83	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	36.56		ng/L		98	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	33.78		ng/L		84	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.79		ng/L		107	70 - 130

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: LCS 200-187142/2-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	38.49		ng/L		96	70 - 130
6:2 FTS	37.9	40.94		ng/L		108	60 - 140
8:2 FTS	38.3	42.02		ng/L		110	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	105		50 - 150
13C4 PFOA	98		50 - 150
13C5 PFNA	102		50 - 150
13C4 PFBA	89		50 - 150
13C2 PFHxA	100		50 - 150
13C2 PFDA	100		50 - 150
13C2 PFUnA	96		50 - 150
18O2 PFHxS	96		50 - 150
13C2 PFDoA	90		50 - 150
13C4 PFOS	89		50 - 150
13C8 FOSA	76		50 - 150
13C5 PFPeA	91		50 - 150
13C2 PFTeDA	93		50 - 150
d3-NMeFOSAA	88		50 - 150
d5-NEtFOSAA	90		50 - 150
M2-6:2 FTS	113		50 - 150
13C3 PFBS	92		50 - 150
M2-8:2 FTS	101		50 - 150

Lab Sample ID: LCSD 200-187142/3-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 187142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	39.67		ng/L		99	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	40.0	39.15		ng/L		98	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	40.0	40.07		ng/L		100	70 - 130	6	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.79		ng/L		102	70 - 130	10	30
Perfluorooctanoic acid (PFOA)	40.0	40.37		ng/L		101	70 - 130	3	30
Perfluorononanoic acid (PFNA)	40.0	42.62		ng/L		107	70 - 130	9	30
Perfluorodecanoic acid (PFDA)	40.0	43.42		ng/L		109	70 - 130	9	30
Perfluoroundecanoic acid (PFUnA)	40.0	43.63		ng/L		109	70 - 130	10	30
Perfluorododecanoic acid (PFDoA)	40.0	40.28		ng/L		101	70 - 130	7	30
Perfluorotridecanoic acid (PFTriA)	40.0	37.14		ng/L		93	70 - 130	5	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.25		ng/L		96	70 - 130	10	30
Perfluorobutanesulfonic acid (PFBS)	35.4	37.24		ng/L		105	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.35		ng/L		103	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.1	41.22		ng/L		108	70 - 130	2	30

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

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

Lab Sample ID: LCSD 200-187142/3-A

Matrix: Water

Analysis Batch: 187179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 187142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	38.6	28.73		ng/L		75	70 - 130	11	30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.08		ng/L		97	70 - 130	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	37.07		ng/L		93	70 - 130	9	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.29		ng/L		106	70 - 130	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.16		ng/L		95	70 - 130	1	30
6:2 FTS	37.9	42.69		ng/L		113	60 - 140	4	30
8:2 FTS	38.3	43.44		ng/L		113	70 - 130	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFHpA	106		50 - 150
13C4 PFOA	99		50 - 150
13C5 PFNA	100		50 - 150
13C4 PFBA	93		50 - 150
13C2 PFHxA	105		50 - 150
13C2 PFDA	103		50 - 150
13C2 PFUnA	96		50 - 150
18O2 PFHxS	103		50 - 150
13C2 PFDoA	81		50 - 150
13C4 PFOS	95		50 - 150
13C8 FOSA	73		50 - 150
13C5 PFPeA	96		50 - 150
13C2 PFTeDA	84		50 - 150
d3-NMeFOSAA	90		50 - 150
d5-NEtFOSAA	85		50 - 150
M2-6:2 FTS	114		50 - 150
13C3 PFBS	94		50 - 150
M2-8:2 FTS	104		50 - 150

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

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: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

LCMS

Prep Batch: 187080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271837-1	BCS-21-21_(10-10.5)P	Total/NA	Solid	SHAKE	
460-271837-2	BCS-21-22_(10-10.5)P	Total/NA	Solid	SHAKE	
460-271837-3	BCS-21-23_(10-10.5)P	Total/NA	Solid	SHAKE	
460-271837-4	BCS-21-24_(10-10.5)P	Total/NA	Solid	SHAKE	
MB 200-187080/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-187080/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-204901-A-3-B MS	Matrix Spike	Total/NA	Solid	SHAKE	
480-204901-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	SHAKE	

Prep Batch: 187142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271837-5	FB-21_122022P	Total/NA	Water	3535	
MB 200-187142/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-187142/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-187142/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 187177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271837-1	BCS-21-21_(10-10.5)P	Total/NA	Solid	537 (modified)	187080
460-271837-2	BCS-21-22_(10-10.5)P	Total/NA	Solid	537 (modified)	187080
460-271837-3	BCS-21-23_(10-10.5)P	Total/NA	Solid	537 (modified)	187080
460-271837-4	BCS-21-24_(10-10.5)P	Total/NA	Solid	537 (modified)	187080
MB 200-187080/1-A	Method Blank	Total/NA	Solid	537 (modified)	187080
LCS 200-187080/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	187080
480-204901-A-3-B MS	Matrix Spike	Total/NA	Solid	537 (modified)	187080
480-204901-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	537 (modified)	187080

Analysis Batch: 187179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271837-5	FB-21_122022P	Total/NA	Water	537 (modified)	187142
MB 200-187142/1-A	Method Blank	Total/NA	Water	537 (modified)	187142
LCS 200-187142/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	187142
LCSD 200-187142/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	187142

General Chemistry

Analysis Batch: 187088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-271837-1	BCS-21-21_(10-10.5)P	Total/NA	Solid	Moisture	
460-271837-2	BCS-21-22_(10-10.5)P	Total/NA	Solid	Moisture	
460-271837-3	BCS-21-23_(10-10.5)P	Total/NA	Solid	Moisture	
460-271837-4	BCS-21-24_(10-10.5)P	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-21_(10-10.5)P

Lab Sample ID: 460-271837-1

Date Collected: 12/20/22 13:05

Matrix: Solid

Date Received: 12/20/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187088	RWM	EET BUR	12/28/22 15:18

Client Sample ID: BCS-21-21_(10-10.5)P

Lab Sample ID: 460-271837-1

Date Collected: 12/20/22 13:05

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187080	KFW	EET BUR	12/28/22 09:05
Total/NA	Analysis	537 (modified)		1	187177	ND	EET BUR	12/30/22 14:55

Client Sample ID: BCS-21-22_(10-10.5)P

Lab Sample ID: 460-271837-2

Date Collected: 12/20/22 13:15

Matrix: Solid

Date Received: 12/20/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187088	RWM	EET BUR	12/28/22 15:18

Client Sample ID: BCS-21-22_(10-10.5)P

Lab Sample ID: 460-271837-2

Date Collected: 12/20/22 13:15

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187080	KFW	EET BUR	12/28/22 09:05
Total/NA	Analysis	537 (modified)		1	187177	ND	EET BUR	12/30/22 15:03

Client Sample ID: BCS-21-23_(10-10.5)P

Lab Sample ID: 460-271837-3

Date Collected: 12/20/22 13:25

Matrix: Solid

Date Received: 12/20/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187088	RWM	EET BUR	12/28/22 15:18

Client Sample ID: BCS-21-23_(10-10.5)P

Lab Sample ID: 460-271837-3

Date Collected: 12/20/22 13:25

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187080	KFW	EET BUR	12/28/22 09:05
Total/NA	Analysis	537 (modified)		1	187177	ND	EET BUR	12/30/22 15:12

Client Sample ID: BCS-21-24_(10-10.5)P

Lab Sample ID: 460-271837-4

Date Collected: 12/20/22 13:35

Matrix: Solid

Date Received: 12/20/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	187088	RWM	EET BUR	12/28/22 15:18

Eurofins Edison

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Client Sample ID: BCS-21-24_(10-10.5)P

Lab Sample ID: 460-271837-4

Date Collected: 12/20/22 13:35

Matrix: Solid

Date Received: 12/20/22 19:00

Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			187080	KFW	EET BUR	12/28/22 09:05
Total/NA	Analysis	537 (modified)		1	187177	ND	EET BUR	12/30/22 15:28

Client Sample ID: FB-21_122022P

Lab Sample ID: 460-271837-5

Date Collected: 12/20/22 14:05

Matrix: Water

Date Received: 12/20/22 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			187142	KFW	EET BUR	12/29/22 13:39
Total/NA	Analysis	537 (modified)		1	187179	ND	EET BUR	12/31/22 01:01

Laboratory References:

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

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 21

Job ID: 460-271837-1

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-23
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22 *
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399133350	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
BCS-21-21_(10-10.5))P	460-271837-1	86	87	85	91	93	88	108	92
BCS-21-22_(10-10.5))P	460-271837-2	84	82	81	83	90	82	105	88
BCS-21-23_(10-10.5))P	460-271837-3	82	81	82	86	88	85	105	88
BCS-21-24_(10-10.5))P	460-271837-4	77	77	78	81	85	81	88	87
	MB 200-187080/1-A	81	83	89	89	91	91	109	91
	LCS 200-187080/2-A	77	77	84	86	87	88	103	88
	480-204901-A-3-B MS	87	85	84	88	91	88	154 *	97
	480-204901-A-3-C MSD	86	87	84	87	91	86	150	98

	<u>QC LIMITS</u>
PFBA = 13C4 PFBA	50-150
PFPeA = 13C5 PFPeA	50-150
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	50-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid 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 #
BCS-21-21_(10-10.5) P	460-271837-1	87	96	97	109	80	86	95	92
BCS-21-22_(10-10.5) P	460-271837-2	79	87	86	102	69	77	91	87
BCS-21-23_(10-10.5) P	460-271837-3	80	88	94	100	72	77	89	84
BCS-21-24_(10-10.5) P	460-271837-4	69	87	83	78	63	66	79	72
	MB 200-187080/1-A	85	91	94	91	68	78	82	77
	LCS 200-187080/2-A	87	89	97	95	69	78	82	78
	480-204901-A-3-B MS	85	107	112	266 *	75	152 *	116	169 *
	480-204901-A-3-C MSD	88	104	113	259 *	73	146	116	168 *

	<u>QC LIMITS</u>
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	50-150
PFOSA = 13C8 FOSA	50-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD _o A #	PFTDA #
BCS-21-21_(10-10.5))P	460-271837-1	90	97
BCS-21-22_(10-10.5))P	460-271837-2	90	98
BCS-21-23_(10-10.5))P	460-271837-3	89	101
BCS-21-24_(10-10.5))P	460-271837-4	81	67
	MB 200-187080/1-A	76	91
	LCS 200-187080/2-A	79	90
	480-204901-A-3-B MS	105	88
	480-204901-A-3-C MSD	99	79

PFD_oA = 13C2 PFD_oA
 PFTDA = 13C2 PFTeDA

QC LIMITS
 50-150
 50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
FB-21_122022P	460-271837-5	86	85	88	94	95	86	104	92
	MB 200-187142/1-A	94	95	97	104	106	101	120	104
	LCS 200-187142/2-A	89	91	92	100	105	96	113	98
	LCSD 200-187142/3-A	93	96	94	105	106	103	114	99

	<u>QC LIMITS</u>
PFBA = 13C4 PFBA	50-150
PFPeA = 13C5 PFPeA	50-150
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	50-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 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 #
FB-21_122022P	460-271837-5	81	90	92	89	76	79	90	87
	MB 200-187142/1-A	100	108	112	115	88	100	117	108
	LCS 200-187142/2-A	89	102	100	101	76	88	96	90
	LCSD 200-187142/3-A	95	100	103	104	73	90	96	85

	<u>QC LIMITS</u>
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	50-150
PFOSA = 13C8 FOSA	50-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD _o A #	PFTDA #
FB-21_122022P	460-271837-5	92	89
	MB 200-187142/1-A	106	102
	LCS 200-187142/2-A	90	93
	LCSD 200-187142/3-A	81	84

PFD_oA = 13C2 PFD_oA
PFTDA = 13C2 PFTeDA

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221230A07.d
 Lab ID: LCS 200-187080/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	1.881	94	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	1.904	95	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	1.775	89	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.937	97	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.858	93	60-140	
Perfluorononanoic acid (PFNA)	2.00	1.918	96	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.824	91	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	2.014	101	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.846	92	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	1.990	99	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	1.847	92	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.566	89	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.697	93	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.842	97	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.582	82	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.696	91	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	1.893	95	60-140	
13C4 PFHpA	2.50	2.182	87	50-150	
13C4 PFOA	2.50	2.191	88	50-150	
13C5 PFNA	2.50	2.237	89	50-150	
13C4 PFBA	2.50	1.913	77	50-150	
13C2 PFHxA	2.50	2.161	86	50-150	
13C2 PFDA	2.50	2.418	97	50-150	
13C2 PFUnA	2.50	2.060	82	50-150	
18O2 PFHxS	2.37	2.077	88	50-150	
13C2 PFDoA	2.50	1.964	79	50-150	
13C4 PFOS	2.39	2.081	87	50-150	
13C8 FOSA	2.50	1.720	69	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.042	102	60-140	
13C5 PFPeA	2.50	1.927	77	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.848 J	92	60-140	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: PA221230A07.d
Lab ID: LCS 200-187080/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	2.50	2.260	90	50-150	
d3-NMeFOSAA	2.50	1.951	78	50-150	
6:2 FTS	1.90	1.877 J	99	50-150	
d5-NEtFOSAA	2.50	1.944	78	50-150	
8:2 FTS	1.92	1.864 J	97	60-140	
M2-6:2 FTS	2.38	2.456	103	50-150	
13C3 PFBS	2.33	1.951	84	50-150	
M2-8:2 FTS	2.40	2.287	95	50-150	

Column to be used to flag recovery and RPD values
FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA221230C03.d
 Lab ID: LCS 200-187142/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	39.12	98	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	38.97	97	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	37.84	95	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	36.73	92	70-130	
Perfluorooctanoic acid (PFOA)	40.0	41.53	104	70-130	
Perfluorononanoic acid (PFNA)	40.0	39.14	98	70-130	
Perfluorodecanoic acid (PFDA)	40.0	39.71	99	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	39.60	99	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	37.58	94	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	35.23	88	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	34.68	87	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	35.10	99	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.59	103	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	40.25	106	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	32.15	83	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	36.56	98	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	33.78	84	70-130	
13C4 PFHpA	50.0	52.65	105	50-150	
13C4 PFOA	50.0	48.99	98	50-150	
13C5 PFNA	50.0	51.07	102	50-150	
13C4 PFBA	50.0	44.41	89	50-150	
13C2 PFHxA	50.0	50.23	100	50-150	
13C2 PFDA	50.0	49.86	100	50-150	
13C2 PFUnA	50.0	47.78	96	50-150	
18O2 PFHxS	47.3	45.45	96	50-150	
13C2 PFDoA	50.0	45.02	90	50-150	
13C4 PFOS	47.8	42.34	89	50-150	
13C8 FOSA	50.0	38.24	76	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.79	107	70-130	
13C5 PFPeA	50.0	45.26	91	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.49	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: PA221230C03.d
Lab ID: LCS 200-187142/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	50.0	46.54	93	50-150	
d3-NMeFOSAA	50.0	44.12	88	50-150	
6:2 FTS	37.9	40.94	108	60-140	
d5-NEtFOSAA	50.0	45.21	90	50-150	
8:2 FTS	38.3	42.02	110	70-130	
M2-6:2 FTS	47.5	53.57	113	50-150	
13C3 PFBS	46.5	43.00	92	50-150	
M2-8:2 FTS	47.9	48.48	101	50-150	

Column to be used to flag recovery and RPD values
FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA221230C04.d
 Lab ID: LCSD 200-187142/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	40.0	39.67	99	1	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	39.15	98	0	30	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	40.07	100	6	30	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	40.79	102	10	30	70-130	
Perfluorooctanoic acid (PFOA)	40.0	40.37	101	3	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.62	107	9	30	70-130	
Perfluorodecanoic acid (PFDA)	40.0	43.42	109	9	30	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	43.63	109	10	30	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	40.28	101	7	30	70-130	
Perfluorotridecanoic acid (PFTrIA)	40.0	37.14	93	5	30	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.25	96	10	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.24	105	6	30	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.35	103	1	30	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	41.22	108	2	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	28.73	75	11	30	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	36.08	97	1	30	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	37.07	93	9	30	70-130	
13C4 PFHpA	50.0	52.93	106			50-150	
13C4 PFOA	50.0	49.45	99			50-150	
13C5 PFNA	50.0	50.14	100			50-150	
13C4 PFBA	50.0	46.63	93			50-150	
13C2 PFHxA	50.0	52.41	105			50-150	
13C2 PFDA	50.0	51.45	103			50-150	
13C2 PFUnA	50.0	47.89	96			50-150	
18O2 PFHxS	47.3	48.54	103			50-150	
13C2 PFDoA	50.0	40.60	81			50-150	
13C4 PFOS	47.8	45.23	95			50-150	
13C8 FOSA	50.0	36.62	73			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.29	106	1	30	70-130	
13C5 PFPeA	50.0	48.05	96			50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.16	95	1	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA221230C04.d
 Lab ID: LCSD 200-187142/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	50.0	41.87	84			50-150	
d3-NMeFOSAA	50.0	44.87	90			50-150	
6:2 FTS	37.9	42.69	113	4	30	60-140	
d5-NEtFOSAA	50.0	42.39	85			50-150	
8:2 FTS	38.3	43.44	113	3	30	70-130	
M2-6:2 FTS	47.5	54.02	114			50-150	
13C3 PFBS	46.5	43.90	94			50-150	
M2-8:2 FTS	47.9	49.96	104			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221230A11.d
 Lab ID: 480-204901-A-3-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.15	0.55 U	2.087	97	60-140	
Perfluoropentanoic acid (PFPeA)	2.15	0.22 U	2.125	99	60-140	
Perfluorohexanoic acid (PFHxA)	2.15	0.22 U	2.097	98	60-140	
Perfluoroheptanoic acid (PFHpA)	2.15	0.22 U	1.991	93	60-140	
Perfluorooctanoic acid (PFOA)	2.15	0.22 U	2.160	100	60-140	
Perfluorononanoic acid (PFNA)	2.15	0.22 U	2.097	98	60-140	
Perfluorodecanoic acid (PFDA)	2.15	0.22 U	2.064	96	60-140	
Perfluoroundecanoic acid (PFUnA)	2.15	0.22 U	2.000	93	60-140	
Perfluorododecanoic acid (PFDoA)	2.15	0.22 U	2.016	94	60-140	
Perfluorotridecanoic acid (PFTriA)	2.15	0.22 U	2.031	94	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.15	0.22 U	2.008	93	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.90	0.22 U	1.852	97	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.96	0.22 U	1.916	98	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.05	0.22 U	2.048	100	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.07	0.22 U	2.166	105	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.99	0.22 U	1.909	96	60-140	
Perfluorooctanesulfonamide (FOSA)	2.15	0.22 U	2.089	97	60-140	
13C4 PFHpA	2.69	2.34	2.458	91	50-150	
13C4 PFOA	2.69	2.67	2.602	97	50-150	
13C5 PFNA	2.69	2.70	2.877	107	50-150	
13C4 PFBA	2.69	2.25	2.328	87	50-150	
13C2 PFHxA	2.69	2.30	2.363	88	50-150	
13C2 PFDA	2.69	2.96	3.011	112	50-150	
13C2 PFUnA	2.69	2.84	3.120	116	50-150	
18O2 PFHxS	2.54	2.10	2.244	88	50-150	
13C2 PFDoA	2.69	2.72	2.824	105	50-150	
13C4 PFOS	2.57	2.18	2.177	85	50-150	
13C8 FOSA	2.69	2.00	2.020	75	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.15	2.20 U	2.165	101	60-140	
13C5 PFPeA	2.69	2.31	2.293	85	50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.15	2.20 U	2.069 J	96	60-140	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221230A11.d
 Lab ID: 480-204901-A-3-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C2 PFTeDA	2.69	2.10	2.360	88	50-150	
d3-NMeFOSAA	2.69	3.60	4.076	152	50-150	*
6:2 FTS	2.04	2.20 U	2.190	107	50-150	
d5-NEtFOSAA	2.69	4.40	4.546	169	50-150	*
8:2 FTS	2.06	2.20 U	2.251	109	60-140	
M2-6:2 FTS	2.55	3.78	3.936	154	50-150	*
13C3 PFBS	2.50	2.13	2.104	84	50-150	
M2-8:2 FTS	2.57	6.57	6.837	266	50-150	*

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: PA221230A12.d

Lab ID: 480-204901-A-3-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	2.21	2.069	94	1	30	60-140	
Perfluoropentanoic acid (PFPeA)	2.21	2.111	96	1	30	60-140	
Perfluorohexanoic acid (PFHxA)	2.21	2.113	96	1	30	60-140	
Perfluoroheptanoic acid (PFHpA)	2.21	2.018	92	1	30	60-140	
Perfluorooctanoic acid (PFOA)	2.21	2.082	94	4	30	60-140	
Perfluorononanoic acid (PFNA)	2.21	2.038	92	3	30	60-140	
Perfluorodecanoic acid (PFDA)	2.21	2.005	91	3	30	60-140	
Perfluoroundecanoic acid (PFUnA)	2.21	1.984	90	1	30	60-140	
Perfluorododecanoic acid (PFDoA)	2.21	2.106	96	4	30	60-140	
Perfluorotridecanoic acid (PFTriA)	2.21	1.988	90	2	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.21	1.964	89	2	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.95	1.836	94	1	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.990	99	4	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.10	1.943	93	5	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.13	1.963	92	10	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.05	1.812	89	5	30	60-140	
Perfluorooctanesulfonamide (FOSA)	2.21	2.032	92	3	30	60-140	
13C4 PFHpA	2.76	2.512	91			50-150	
13C4 PFOA	2.76	2.713	98			50-150	
13C5 PFNA	2.76	2.863	104			50-150	
13C4 PFBA	2.76	2.380	86			50-150	
13C2 PFHxA	2.76	2.396	87			50-150	
13C2 PFDA	2.76	3.118	113			50-150	
13C2 PFUnA	2.76	3.190	116			50-150	
18O2 PFHxS	2.61	2.234	86			50-150	
13C2 PFDoA	2.76	2.727	99			50-150	
13C4 PFOS	2.64	2.316	88			50-150	
13C8 FOSA	2.76	2.025	73			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.21	2.181 J	99	1	30	60-140	
13C5 PFPeA	2.76	2.396	87			50-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.21	2.104 J	95	2	30	60-140	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221230A12.d
 Lab ID: 480-204901-A-3-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	2.76	2.186	79			50-150	
d3-NMeFOSAA	2.76	4.014	146			50-150	
6:2 FTS	2.09	2.118 J	101	3	30	50-150	
d5-NEtFOSAA	2.76	4.641	168			50-150	*
8:2 FTS	2.11	2.231	106	1	30	60-140	
M2-6:2 FTS	2.62	3.937	150			50-150	
13C3 PFBS	2.56	2.142	84			50-150	
M2-8:2 FTS	2.64	6.831	259			50-150	*

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab File ID: PA221230A06.d Lab Sample ID: MB 200-187080/1-A
 Matrix: Solid Date Extracted: 12/28/2022 09:05
 Instrument ID: LC812 Date Analyzed: 12/30/2022 13:25
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187080/2-A	PA221230A07 .d	12/30/2022 13:34
	480-204901-A-3-B MS	PA221230A11 .d	12/30/2022 14:06
	480-204901-A-3-C MSD	PA221230A12 .d	12/30/2022 14:14
BCS-21-21_(10-10.5)P	460-271837-1	PA221230A17 .d	12/30/2022 14:55
BCS-21-22_(10-10.5)P	460-271837-2	PA221230A18 .d	12/30/2022 15:03
BCS-21-23_(10-10.5)P	460-271837-3	PA221230A19 .d	12/30/2022 15:12
BCS-21-24_(10-10.5)P	460-271837-4	PA221230A21 .d	12/30/2022 15:28

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
SDG No.: _____
Lab File ID: PA221230C02.d Lab Sample ID: MB 200-187142/1-A
Matrix: Water Date Extracted: 12/29/2022 13:39
Instrument ID: LC812 Date Analyzed: 12/30/2022 22:33
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-187142/2-A	PA221230C03 .d	12/30/2022 22:41
	LCSD 200-187142/3-A	PA221230C04 .d	12/30/2022 22:50
FB-21_122022P	460-271837-5	PA221230C20 .d	12/31/2022 01:01

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Instrument I LC812 Calibration Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.6 (mm) Calibration End Date: 11/18/2022 15:10
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2300897	3.45				
UPPER LIMIT		3451346	3.65				
LOWER LIMIT		1150449	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-185958/11		2270634	3.45				
ICV 200-185958/12		2902090	3.45				
CCB 200-187177/4		2755486	3.45				
CCVLIS 200-187177/5		2737662	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Sample No.: CCVLIS 200-187177/5 Date Analyzed: 12/30/2022 13:17
 Instrument ID: Lc812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA221230A05.d Heated Purge: (Y/N) N
 Calibration ID: 49456

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		2737662	3.45				
UPPER LIMIT		4106493	3.65				
LOWER LIMIT		1368831	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-187080/1-A		2844836	3.45				
LCS 200-187080/2-A		2885291	3.45				
480-204901-A-3-B MS		3113024	3.42				
480-204901-A-3-C MSD		3117956	3.41				
460-271837-1	BCS-21-21_(10-10.5) P	2933548	3.40				
460-271837-2	BCS-21-22_(10-10.5) P	2989428	3.42				
460-271837-3	BCS-21-23_(10-10.5) P	2970213	3.42				
CCV 200-187177/20		2857411	3.43				
460-271837-4	BCS-21-24_(10-10.5) P	2899454	3.41				
CCV 200-187177/31		2863680	3.41				
CCV 200-187179/1		2930050	3.35				
MB 200-187142/1-A		2710992	3.35				
LCS 200-187142/2-A		2881005	3.32				
LCS 200-187142/3-A		2726363	3.32				
CCV 200-187179/15		2822844	3.32				
460-271837-5	FB-21_122022P	2961030	3.33				
CCV 200-187179/24		2900022	3.31				

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
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: BCS-21-21_(10-10.5)P Lab Sample ID: 460-271837-1

Matrix: Solid Lab File ID: PA221230A17.d

Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:05

Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05

Sample wt/vol: 5.18(g) Date Analyzed: 12/30/2022 14:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 26.1 % Solids: 73.9 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.65	U	0.65	0.43
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.26	U	0.26	0.072
307-24-4	Perfluorohexanoic acid (PFHxA)	0.26	U	0.26	0.060
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26	U	0.26	0.051
335-67-1	Perfluorooctanoic acid (PFOA)	0.26	U	0.26	0.076
375-95-1	Perfluorononanoic acid (PFNA)	0.26	U	0.26	0.044
335-76-2	Perfluorodecanoic acid (PFDA)	0.26	U	0.26	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.26	U	0.26	0.035
307-55-1	Perfluorododecanoic acid (PFDoA)	0.26	U	0.26	0.033
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.26	U	0.26	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	0.26	0.034
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.26	U	0.26	0.043
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.26	U	0.26	0.054
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.26	U	0.26	0.030
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26	U	0.26	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.26	U	0.26	0.025
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.26	U	0.26	0.044
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.61	U	2.61	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.61	U	2.61	0.11
27619-97-2	6:2 FTS	2.61	U	2.61	0.074
39108-34-4	8:2 FTS	2.61	U	2.61	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: BCS-21-21_(10-10.5)P Lab Sample ID: 460-271837-1
 Matrix: Solid Lab File ID: PA221230A17.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:05
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.18(g) Date Analyzed: 12/30/2022 14:55
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 26.1 % Solids: 73.9 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	88		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	92		50-150
STL00991	13C4 PFOS	87		50-150
STL00995	13C5 PFNA	96		50-150
STL00992	13C4 PFBA	86		50-150
STL00993	13C2 PFHxA	91		50-150
STL00996	13C2 PFDA	97		50-150
STL00997	13C2 PFUnA	95		50-150
STL00998	13C2 PFDoA	90		50-150
STL01056	13C8 FOSA	80		50-150
STL01893	13C5 PFPeA	87		50-150
STL02116	13C2 PFTeDA	97		50-150
STL02118	d3-NMeFOSAA	86		50-150
STL02117	d5-NEtFOSAA	92		50-150
STL02279	M2-6:2 FTS	108		50-150
STL02280	M2-8:2 FTS	109		50-150
STL02337	13C3 PFBS	85		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
 Lims ID: 460-271837-A-1-A
 Client ID: BCS-21-21_(10-10.5)P
 Sample Type: Client
 Inject. Date: 30-Dec-2022 14:55:46 ALS Bottle#: 14 Worklist Smp#: 17
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271837-A-1-A
 Misc. Info.: 200-0053865-017 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 10:13:43

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.093	2.076	0.017	0.615	2841046	1.08		86.3	7764	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.000	101724	0.0434			7.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.701	2176646	1.09		86.9	2499	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	26831	0.0141			0.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.705	2156833	0.99		85.2	199658	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	3591	0.001692	Target=2.09		2.5	M
298.90 > 99.00	2.413	2.400	0.013	1.006	1963		1.83(1.04-3.13)		0.5	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.797	2382864	1.13		90.7	5978	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	20694	0.0100	Target=14.25		2.5	M
313.00 > 119.00	2.725	2.725	0.0	1.004	1377		15.03(7.12-21.37)		2.1	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.065	3.088	-0.023	0.901	1657862	1.04		88.4	3743	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.065	3.088	-0.023	1.000	8710	0.005504	Target=3.66		16.1	M
399.00 > 99.00	3.054	3.088	-0.034	0.996	2820		3.09(1.83-5.49)		1.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.065	3.099	-0.034	0.901	2499949	1.16		92.6	3628	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.065	3.099	-0.034	1.000	14200	0.006521	Target=3.97		2.1	M
363.00 > 169.00	3.065	3.099	-0.034	1.000	2574		5.52(1.98-5.95)		4.0	

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	3.395	3.439	-0.044	0.998	340361	1.28		108	383	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.395	3.439	-0.044	1.000	3950	-0.005349			4.1	M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.413	3.439	-0.027	0.918	1639	0.001259	Target=5.14		2.2	RM
449.00 > 99.00	3.395	3.439	-0.044	0.914	743		2.21(2.57-7.72)		3.1	M
D 14 13C4 PFOA										
417.00 > 372.00	3.404	3.448	-0.044	1.000	2803414	1.15		92.3	5297	
* 62 13C2 PFOA										
415.00 > 370.00	3.404	3.448	-0.044		2933548	1.25			3536	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.404	3.448	-0.044	1.000	26831	0.0112	Target=2.79		1.7	M
413.00 > 169.00	3.404	3.448	-0.044	1.000	10017		2.68(1.40-4.19)		10.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.716	3.764	-0.048	1.092	1114184	1.03		86.6	802	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.716	3.764	-0.048	1.000	20114	0.0177	Target=5.11		10.8	RM
499.00 > 99.00	3.562	3.764	-0.202	0.959	14545		1.38(2.55-7.66)		23.8	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.783	-0.048	1.000	11073	0.004724	Target=8.55		1.7	
463.00 > 169.00	3.725	3.783	-0.058	0.997	1384		8.00(4.28-12.83)		9.0	
D 19 13C5 PFNA										
468.00 > 423.00	3.735	3.783	-0.048	1.097	2824249	1.20		95.7	5435	
D 23 13C2 PFDA										
515.00 > 470.00	4.032	4.081	-0.049	1.185	2928880	1.22		97.4	5829	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.032	4.081	-0.049	1.000	9078	0.003573	Target=10.26		2.1	M
513.00 > 169.00	4.032	4.081	-0.049	1.000	1175		7.73(5.13-15.38)		3.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.041	4.093	-0.052	1.187	425517	1.31		109	801	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.041	4.093	-0.052	1.000	6426	0.0112			47.0	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.104	4.150	-0.046	1.000	12303	0.007438			38.4	M
D 21 13C8 FOSA										
506.00 > 78.00	4.104	4.150	-0.046	1.206	1978963	1.00		80.3	2853	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.172	4.228	-0.056	1.226	526534	1.08		86.0	1614	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.172	4.228	-0.056	1.000	1213	-0.008279			4.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.297	4.353	-0.056	1.262	2616588	1.19		95.0	3221	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.308	4.353	-0.045	1.003	5065	0.002401	Target=9.88		0.7	M
563.00 > 169.00	4.308	4.353	-0.045	1.003	547		9.26(4.94-14.82)		4.4	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	4.308	4.365	-0.057	1.000	1383	0.003484			7.9	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.308	4.365	-0.057	1.266	554251	1.15		91.9	925	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.530	4.591	-0.061	1.000	9771	0.004577	Target=7.77		2.1	M
613.00 > 169.00	4.530	4.591	-0.061	1.000	1124		8.69(3.89-11.66)		10.1	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.530	4.591	-0.061	1.331	2518571	1.12		89.8	2081	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.749	4.804	-0.055	1.048	5964	0.002921	Target=5.21		0.8	RM
663.00 > 169.00	4.749	4.804	-0.055	1.048	638		9.35(2.60-7.81)		6.3	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.942	5.012	-0.070	1.000	738	0.002871	Target=0.89		8.5	M
713.00 > 219.00	4.942	5.012	-0.070	1.000	702		1.05(0.44-1.33)		9.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.942	5.012	-0.070	1.452	2346823	1.21		96.7	4664	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d

Injection Date: 30-Dec-2022 14:55:46

Instrument ID: LC812

Lims ID: 460-271837-A-1-A

Lab Sample ID: 200-271837-1

Client ID: BCS-21-21_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

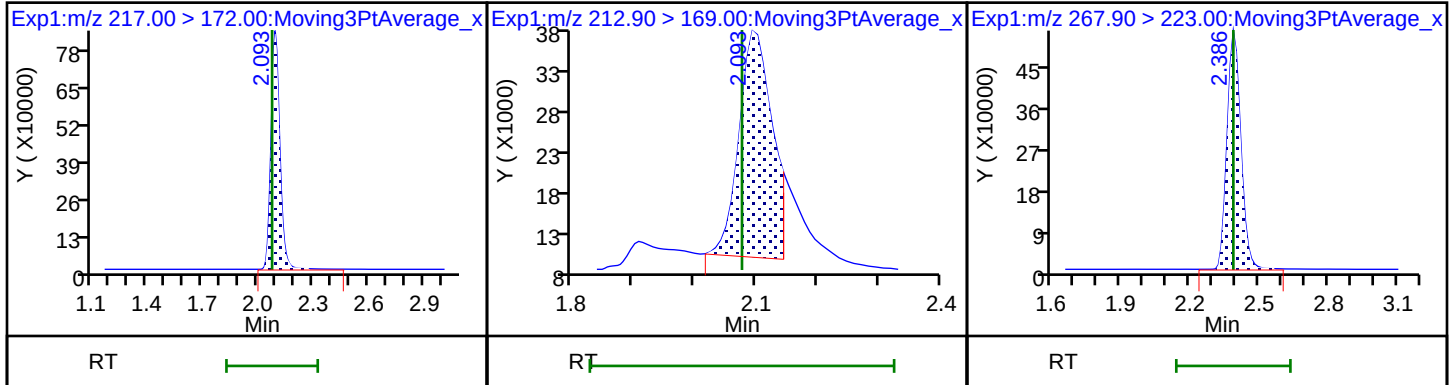
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

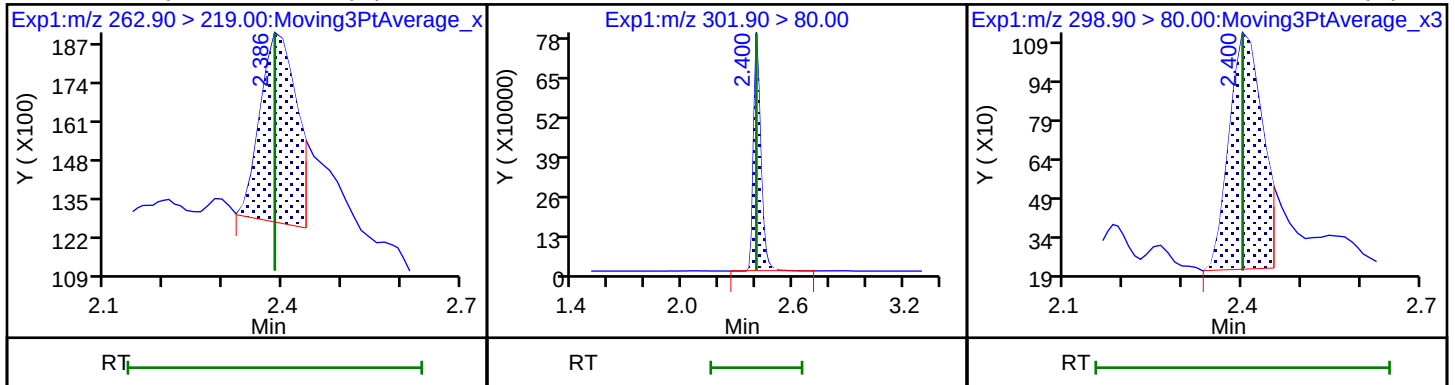
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

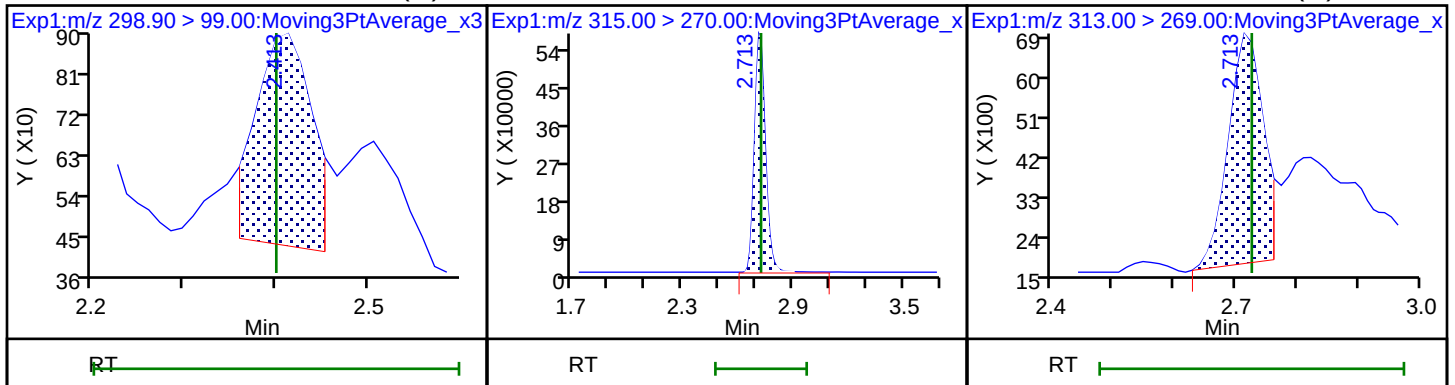
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

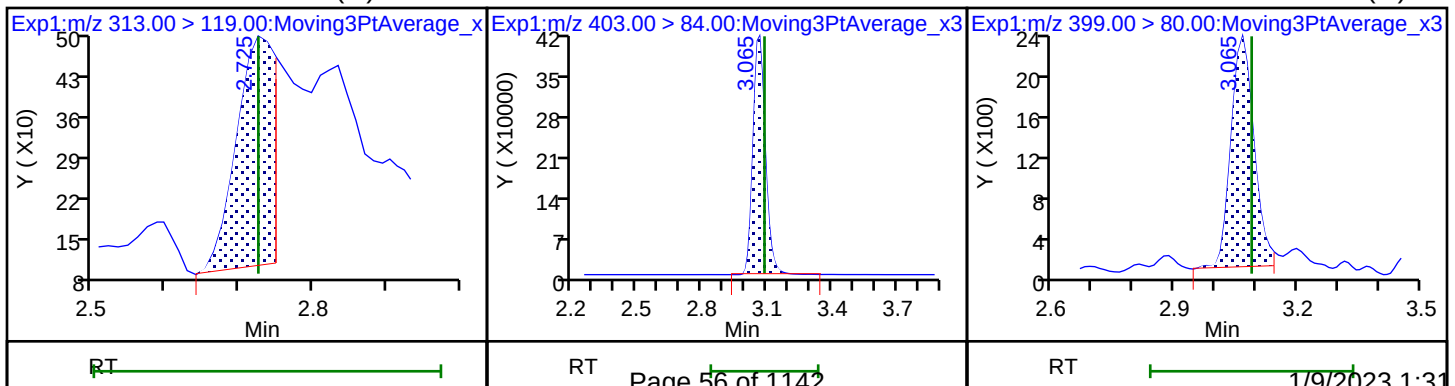
6 Perfluorohexanoic acid (M)

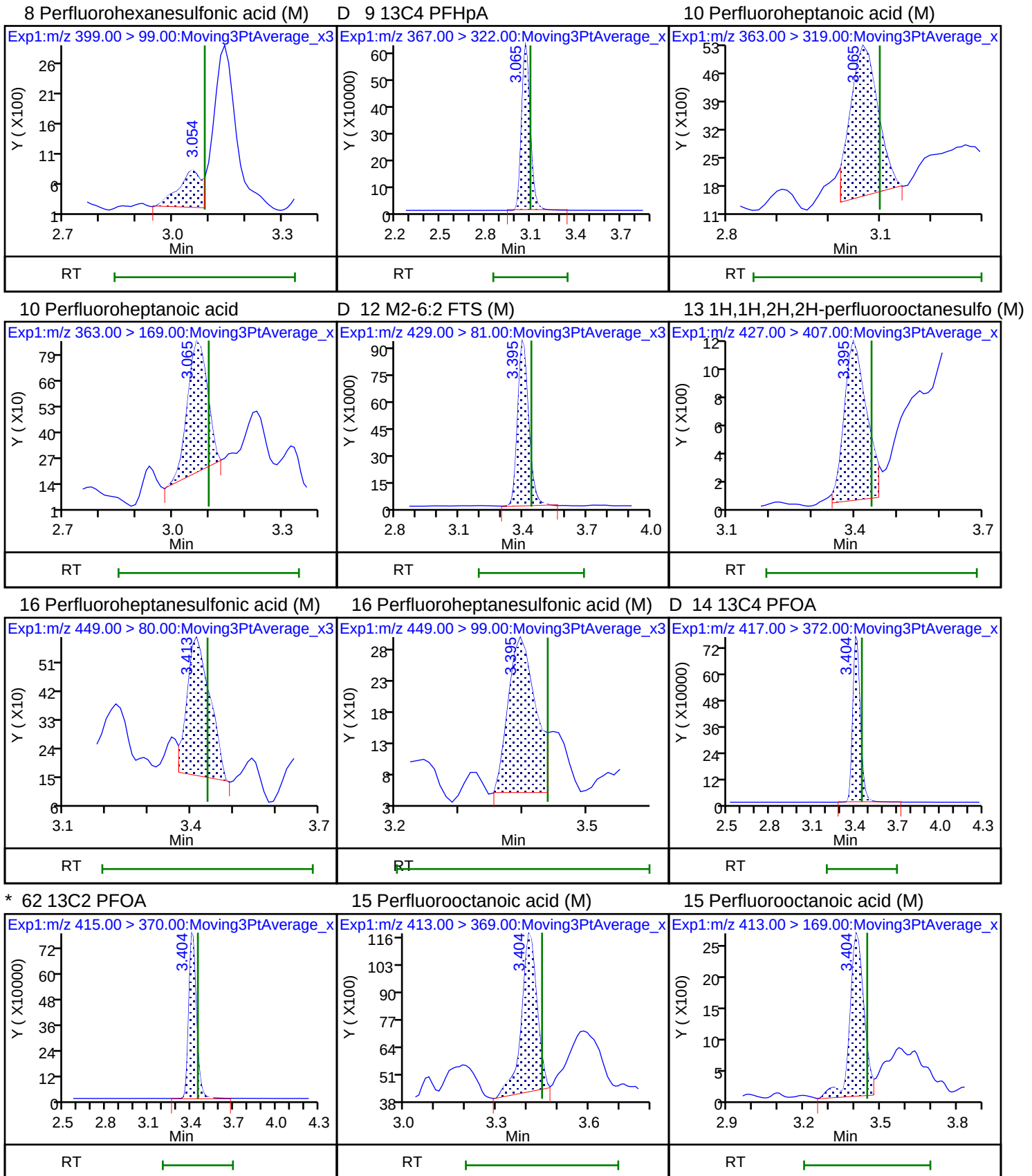


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

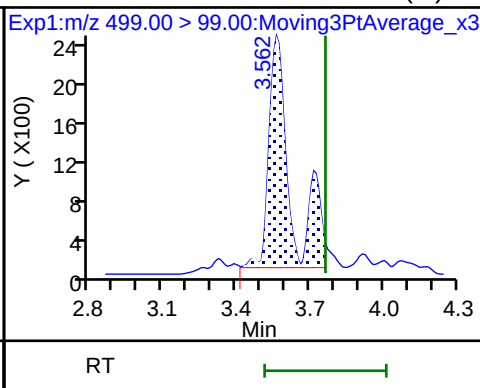
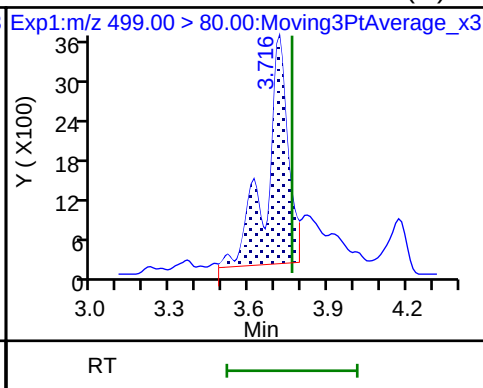
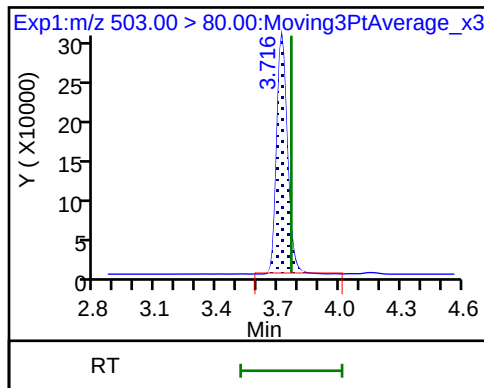




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

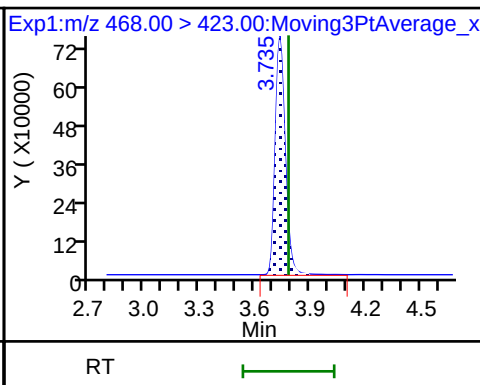
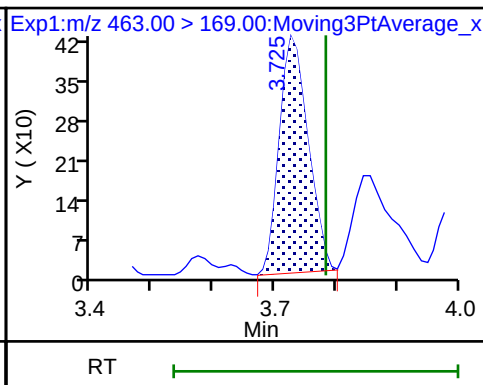
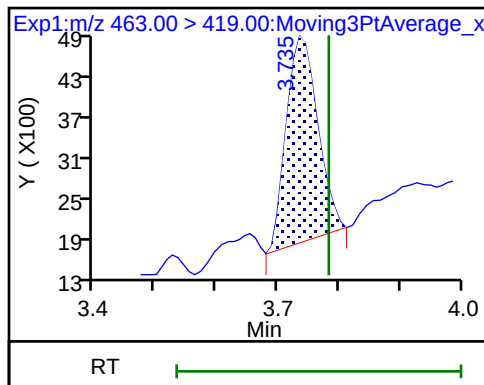
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid

20 Perfluorononanoic acid

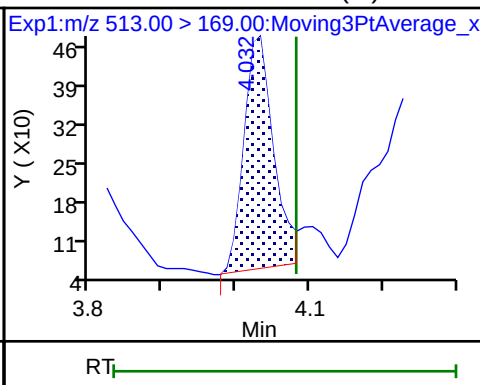
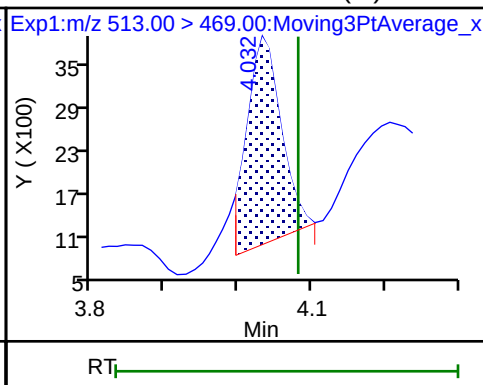
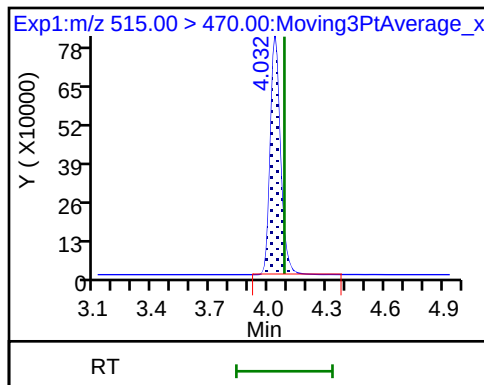
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

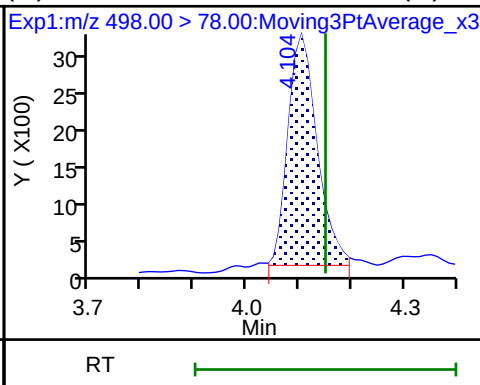
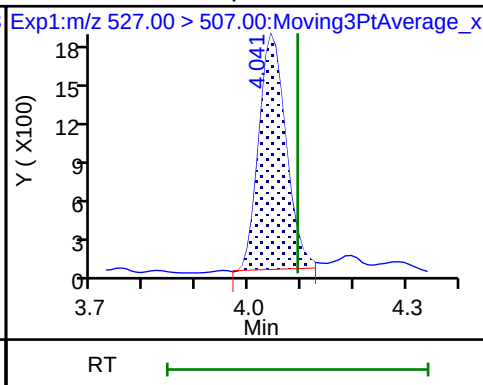
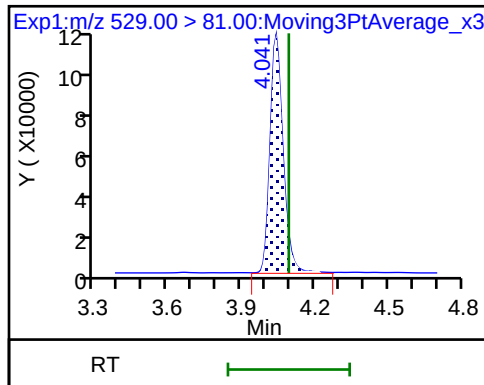
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

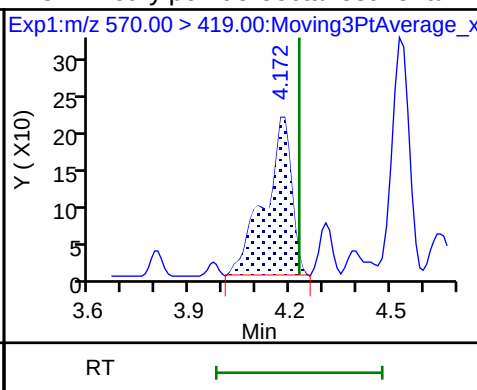
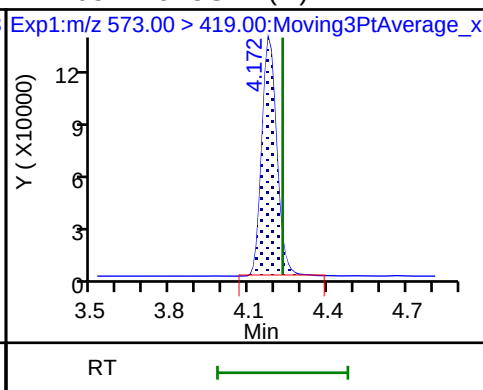
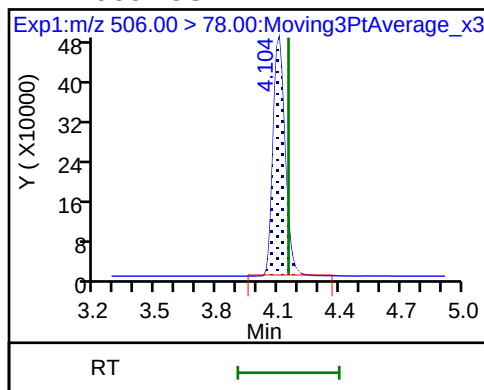
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA (M)

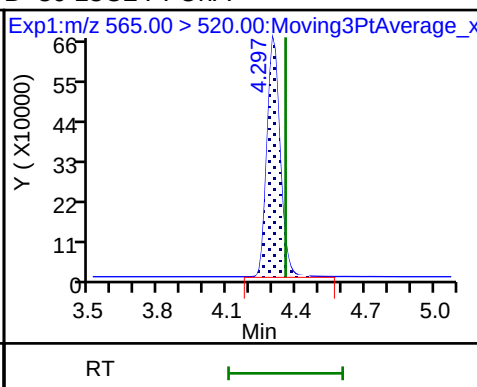
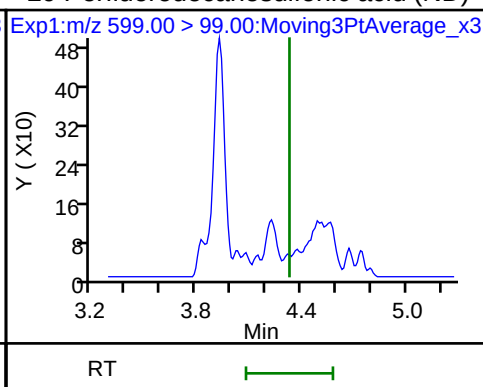
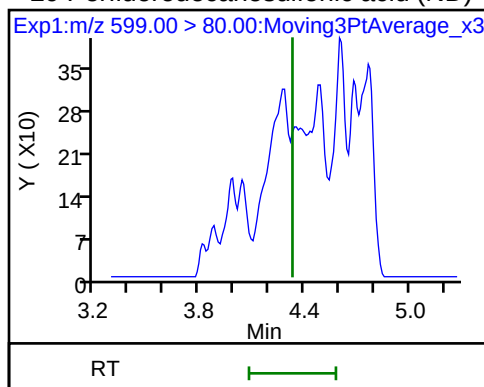
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

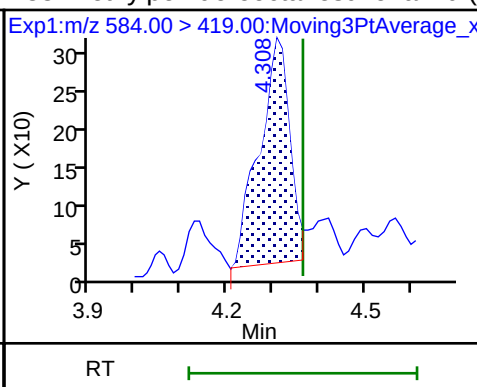
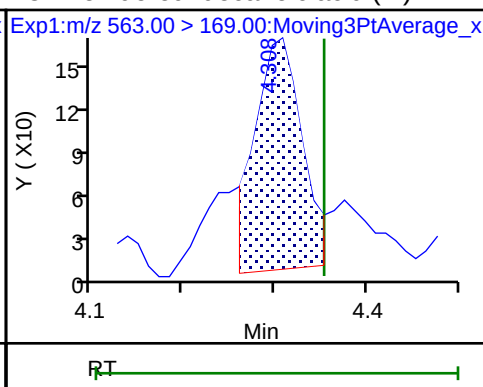
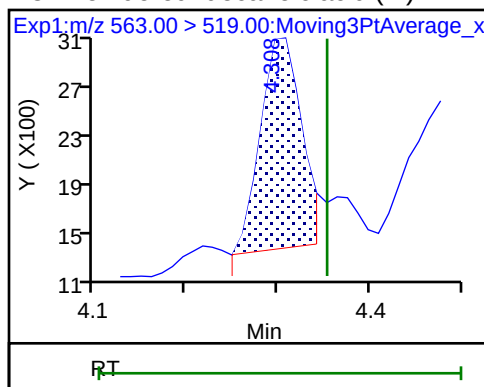
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

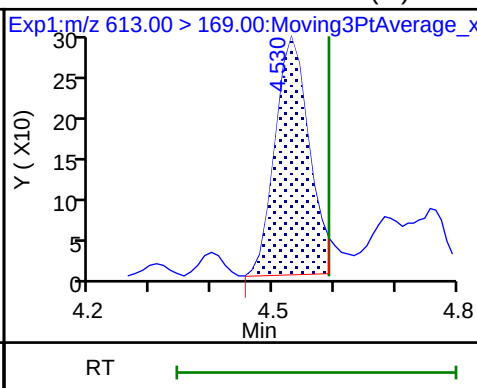
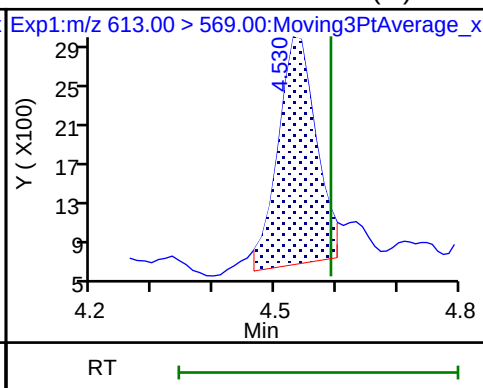
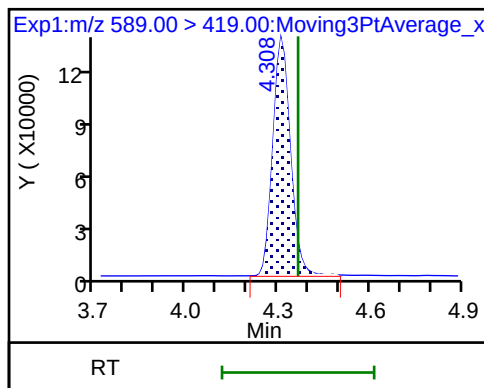
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

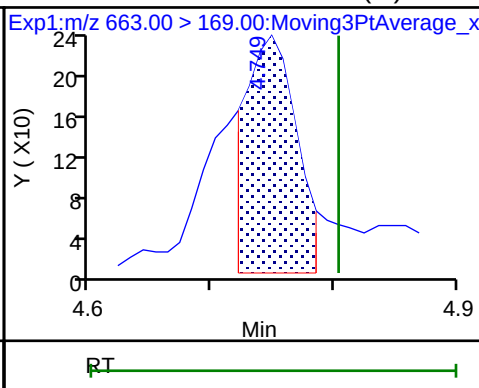
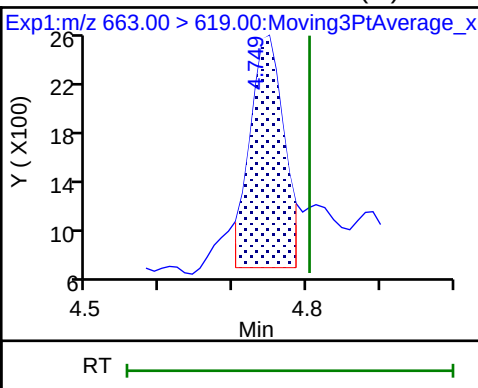
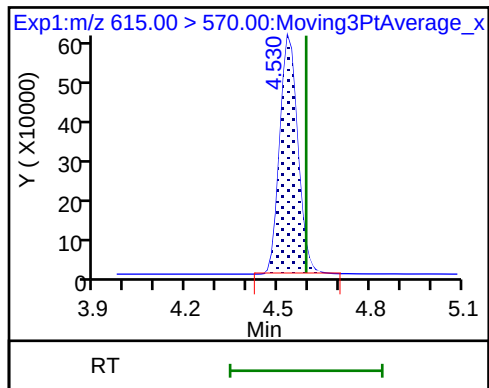
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

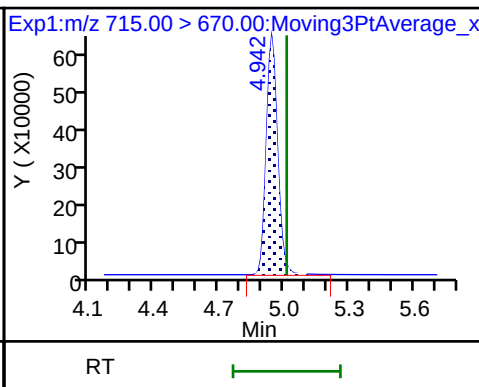
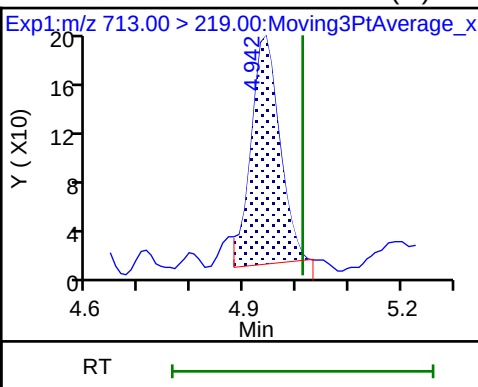
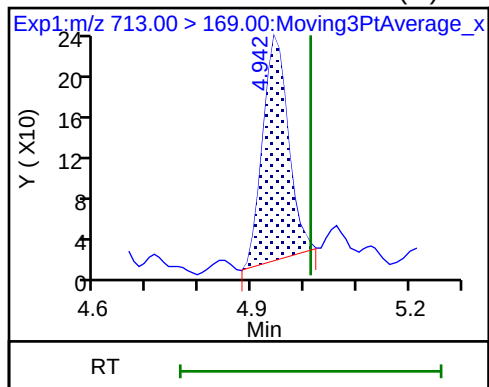
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

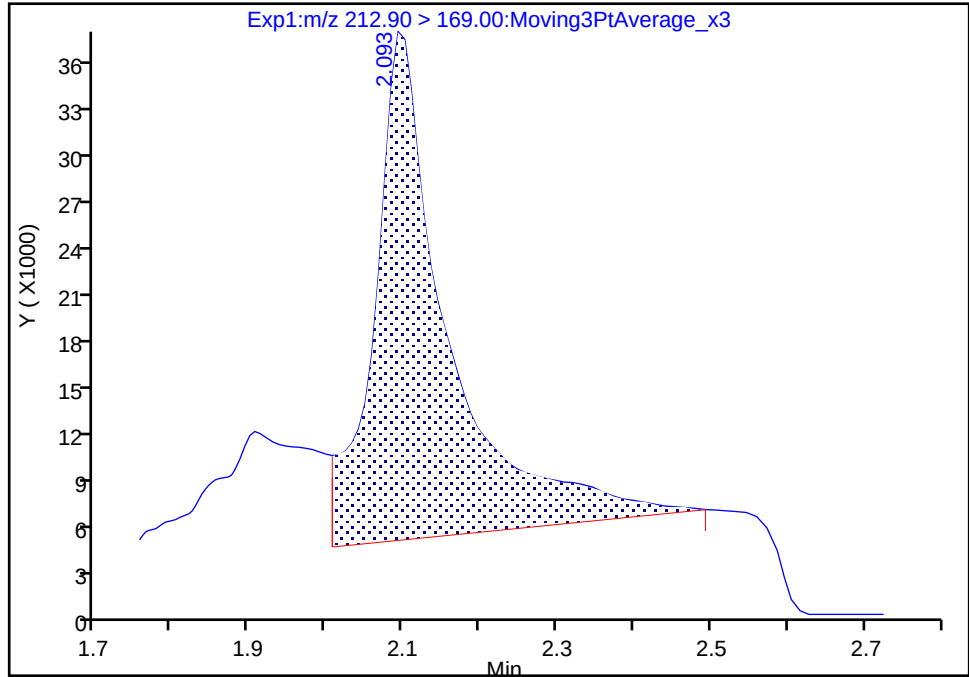
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

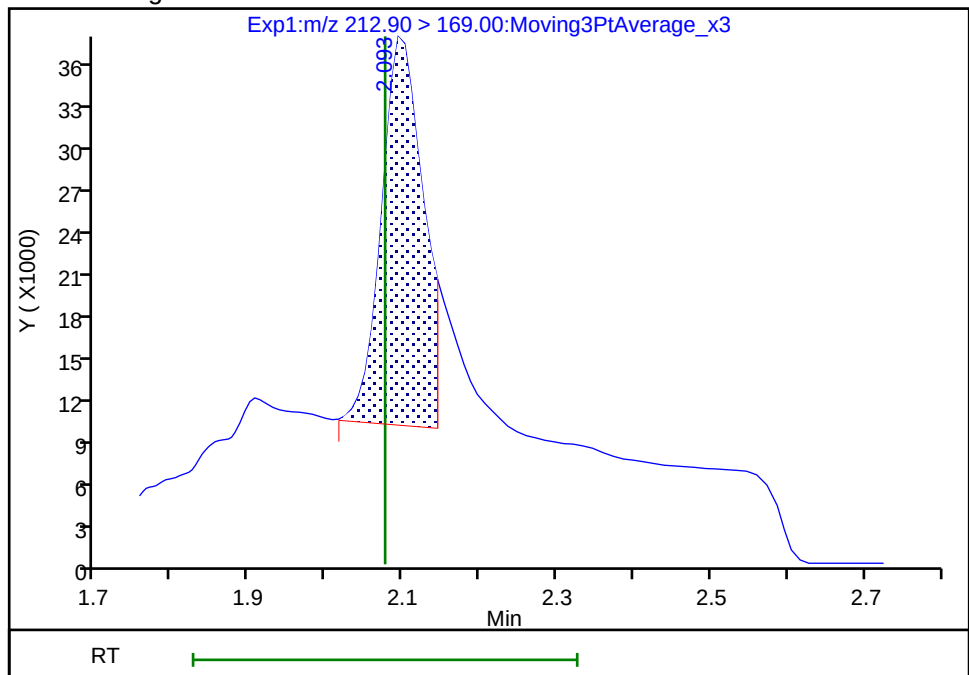
RT: 2.09
Area: 217829
Amount: 0.092941
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 101724
Amount: 0.043402
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:08:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 61 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

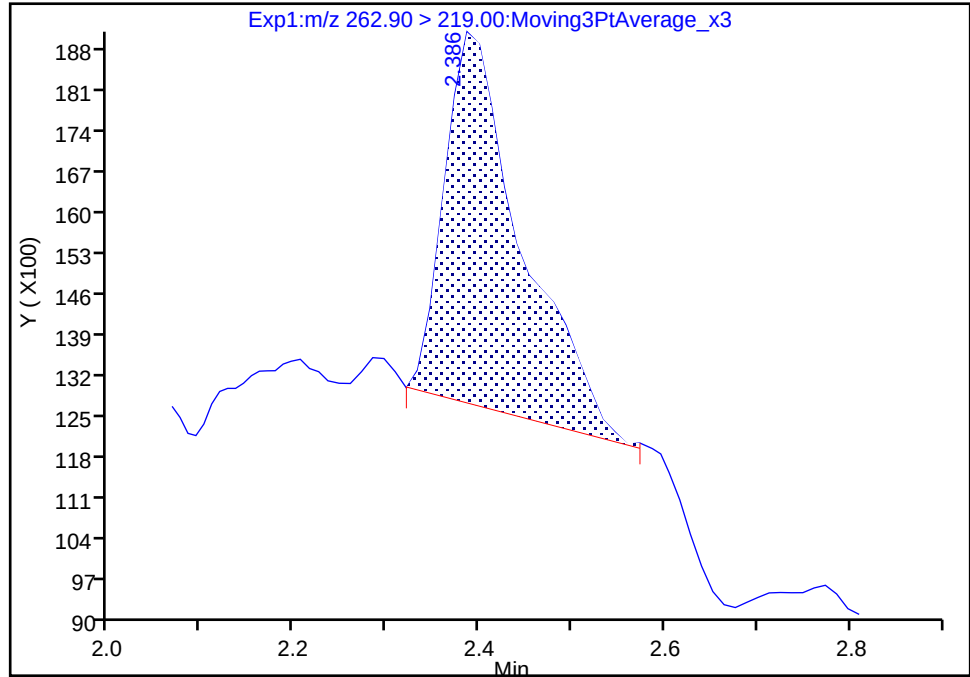
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

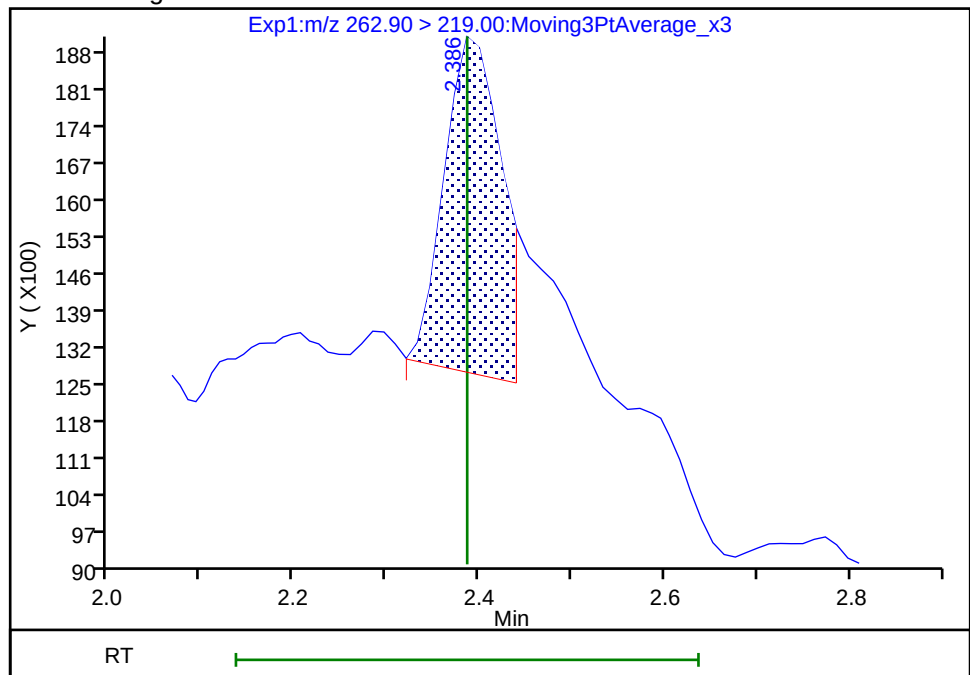
RT: 2.39
Area: 37154
Amount: 0.019578
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 26831
Amount: 0.014138
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:08:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 62 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

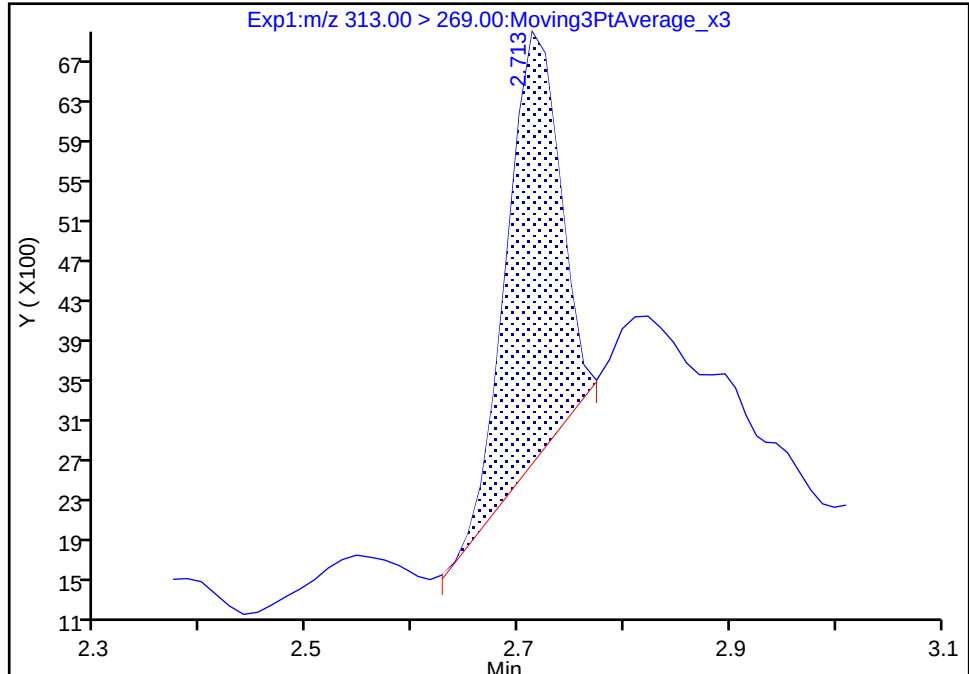
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

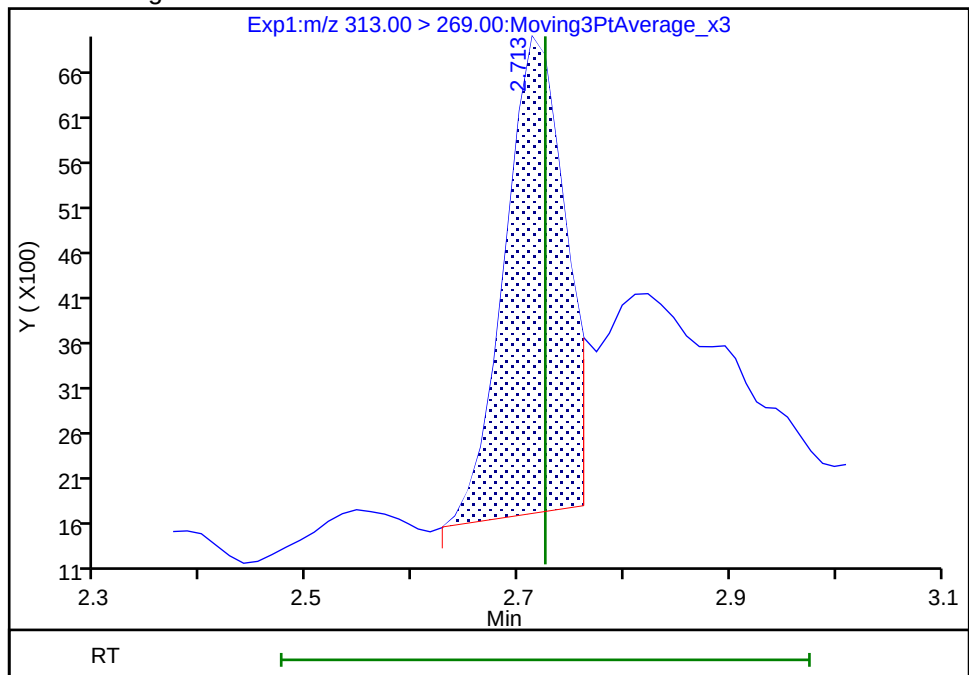
RT: 2.71
Area: 14868
Amount: 0.007158
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 20694
Amount: 0.009963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

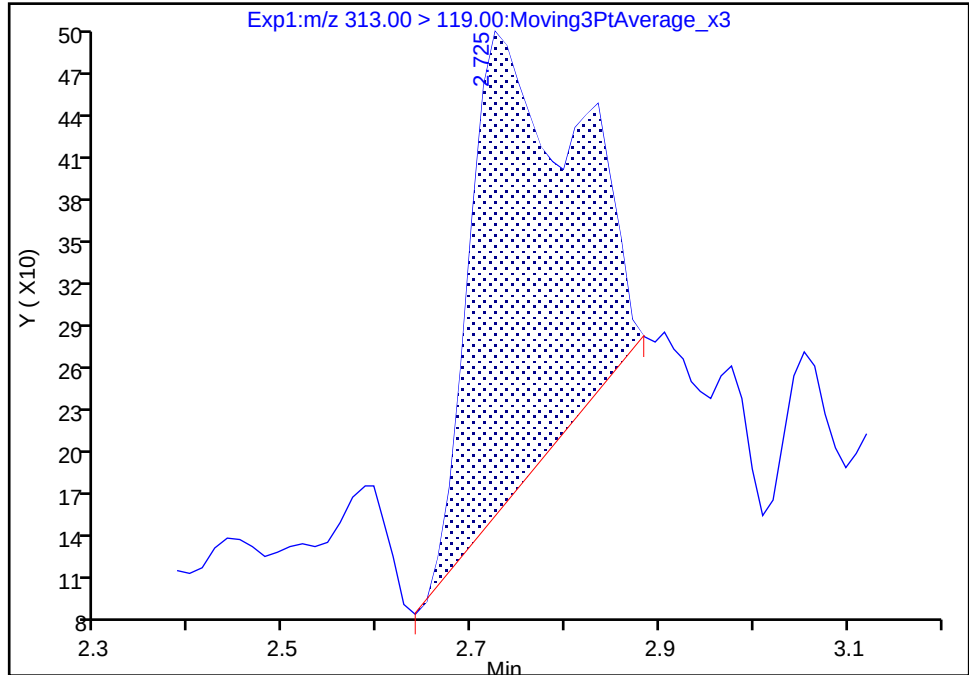
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

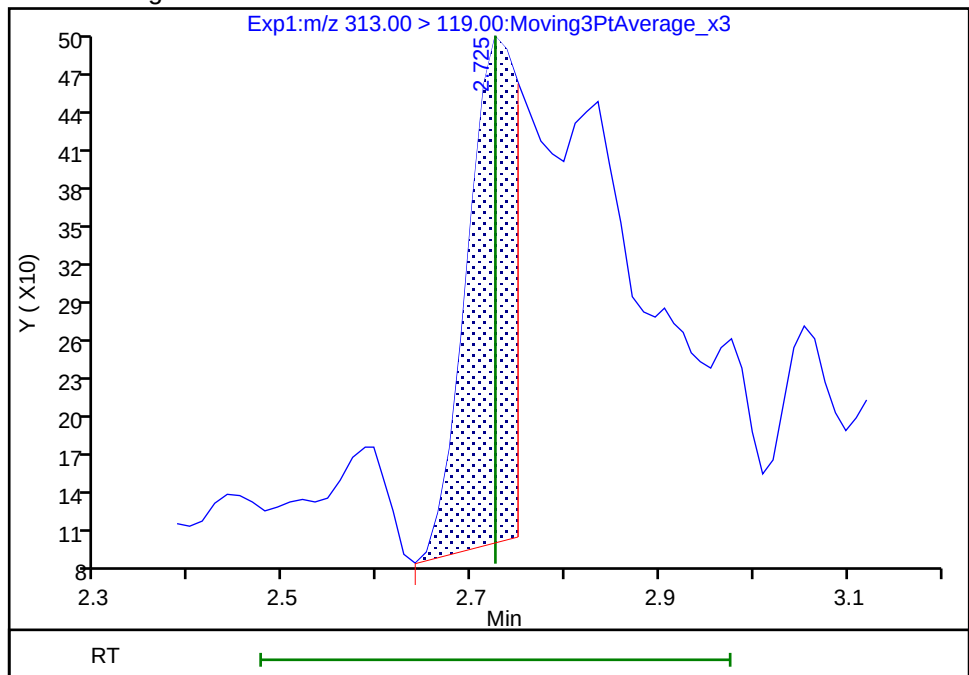
RT: 2.73
Area: 2529
Amount: 0.007158
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1377
Amount: 0.009963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 64 of 11421/9/2023 1:31
PM

Eurofins Burlington

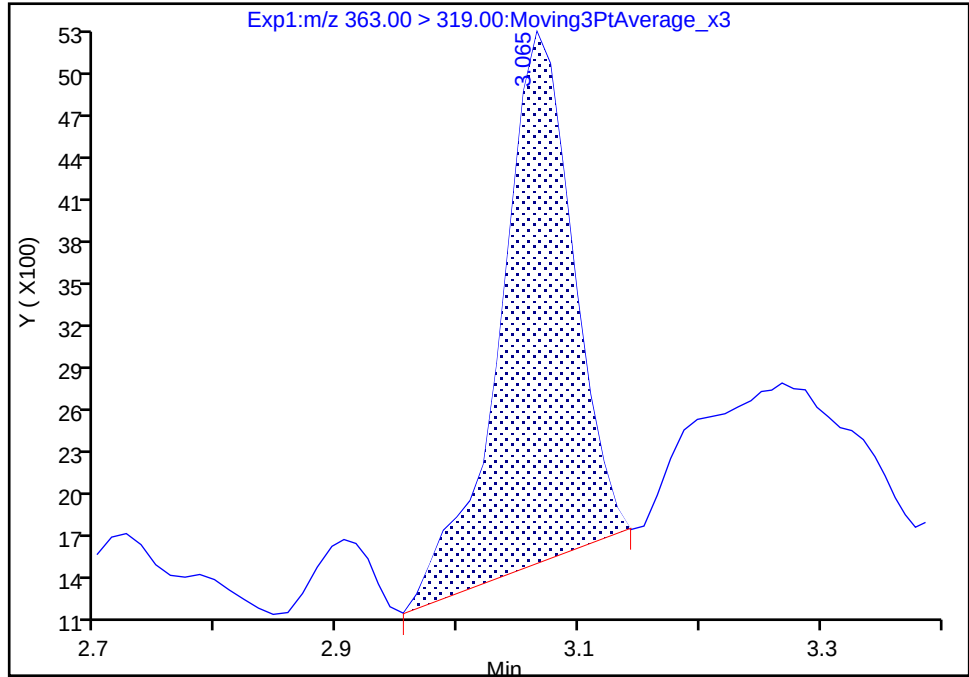
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

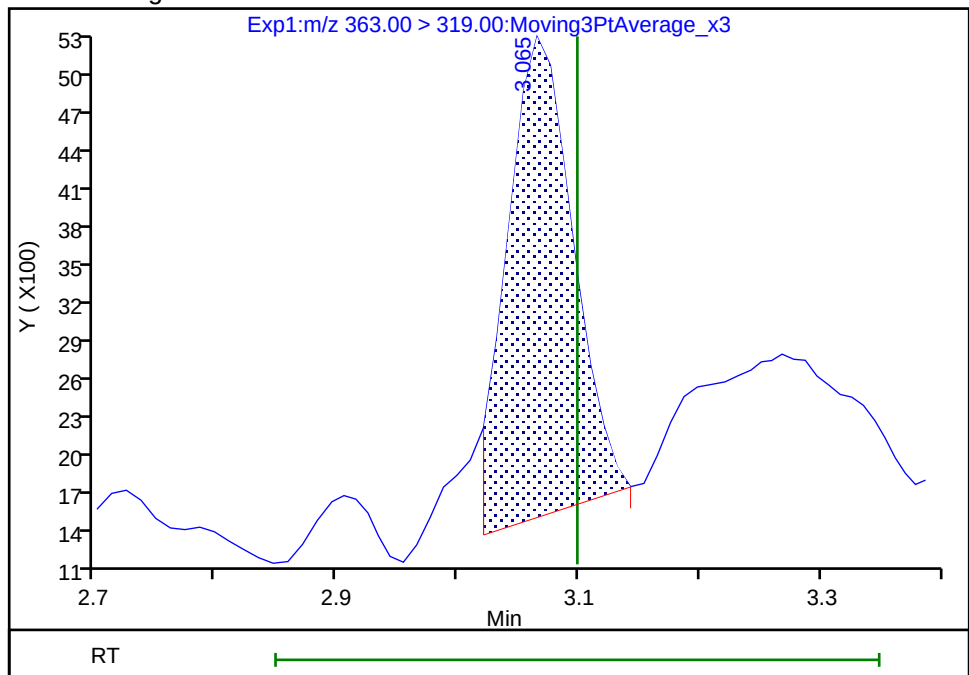
RT: 3.07
Area: 15810
Amount: 0.007261
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 14200
Amount: 0.006521
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

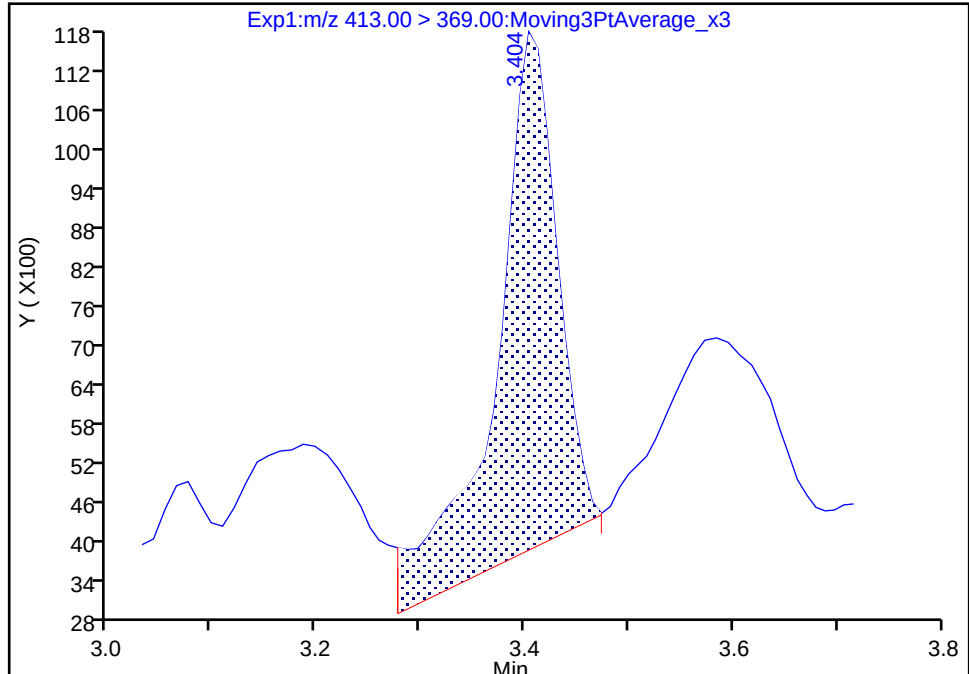
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

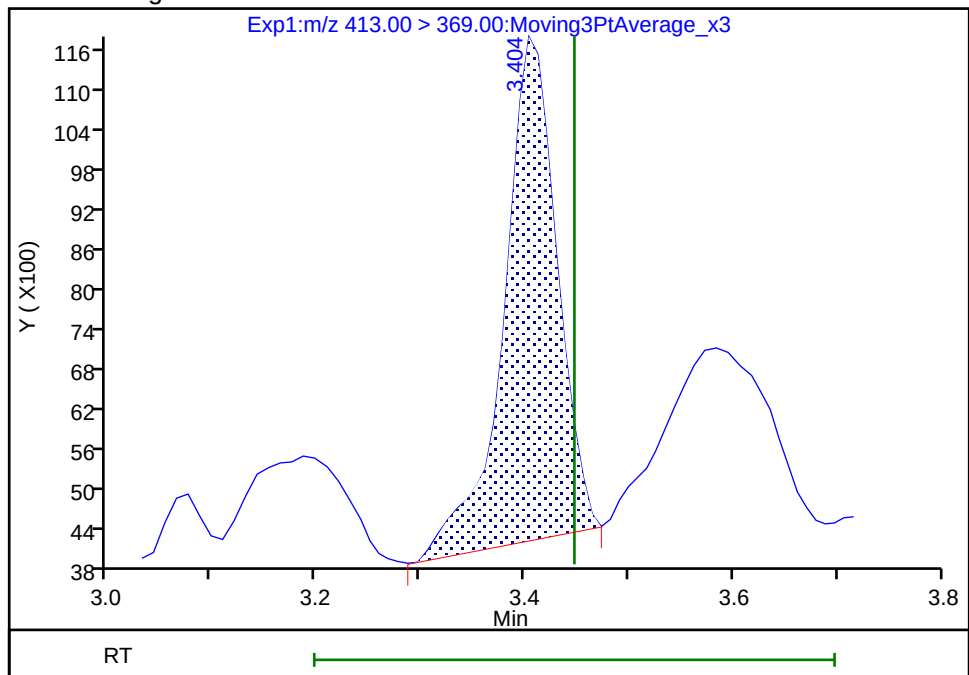
RT: 3.40
Area: 32577
Amount: 0.013588
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 26831
Amount: 0.011191
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

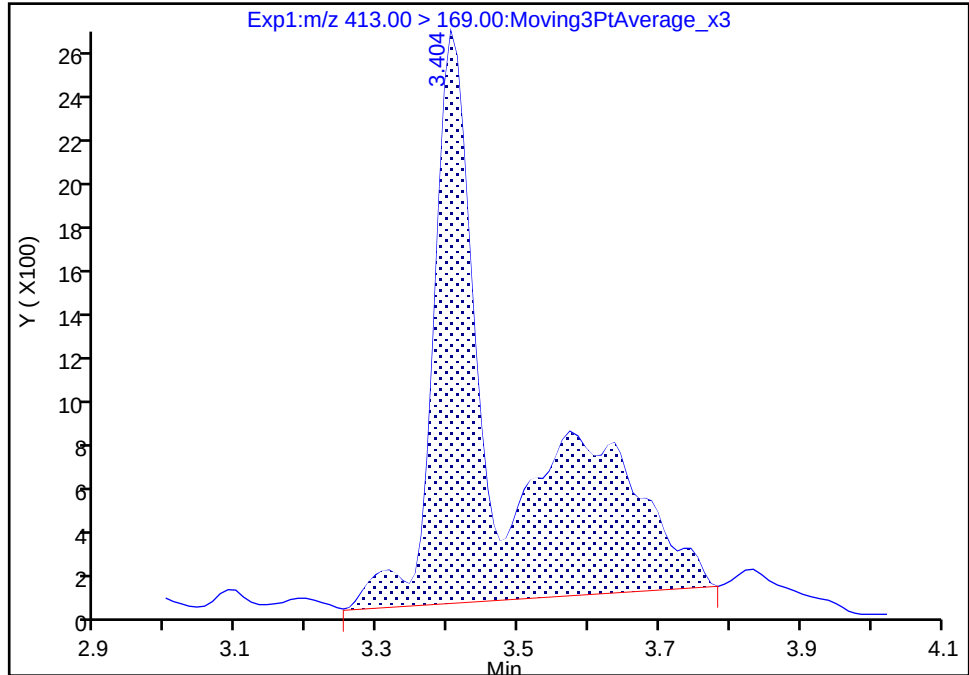
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

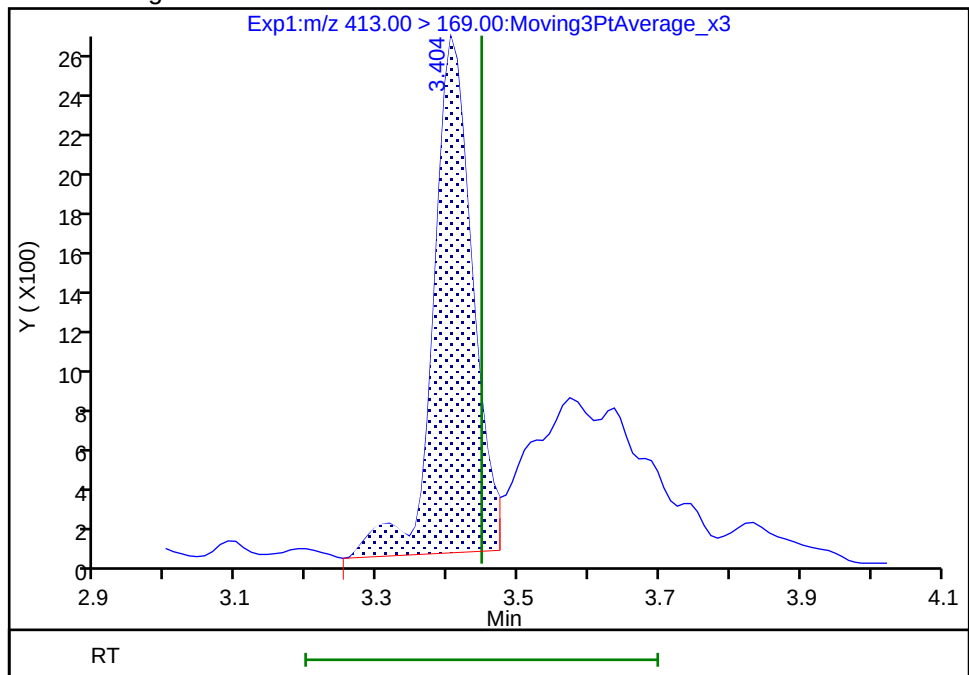
RT: 3.40
Area: 18187
Amount: 0.013588
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 10017
Amount: 0.011191
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 67 of 11421/9/2023 1:31
PM

Eurofins Burlington

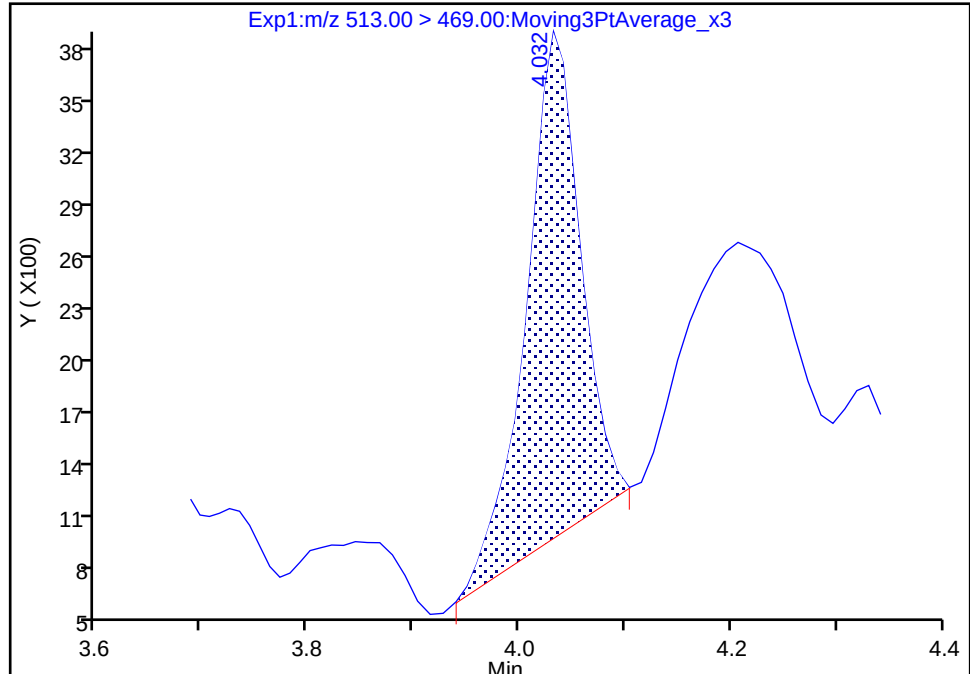
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

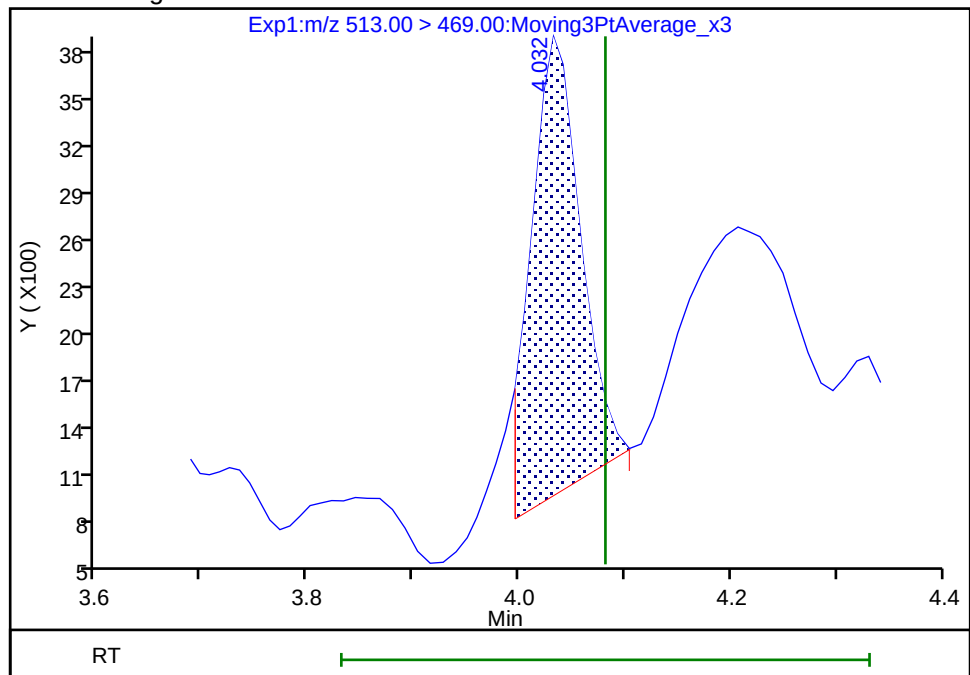
RT: 4.03
Area: 10022
Amount: 0.003944
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 9078
Amount: 0.003573
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

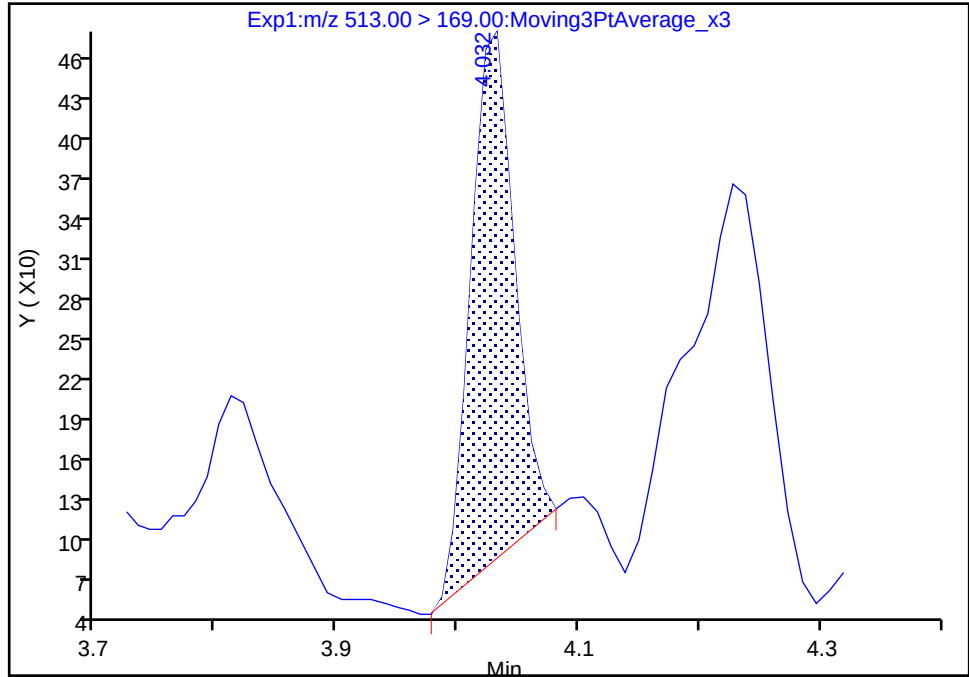
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

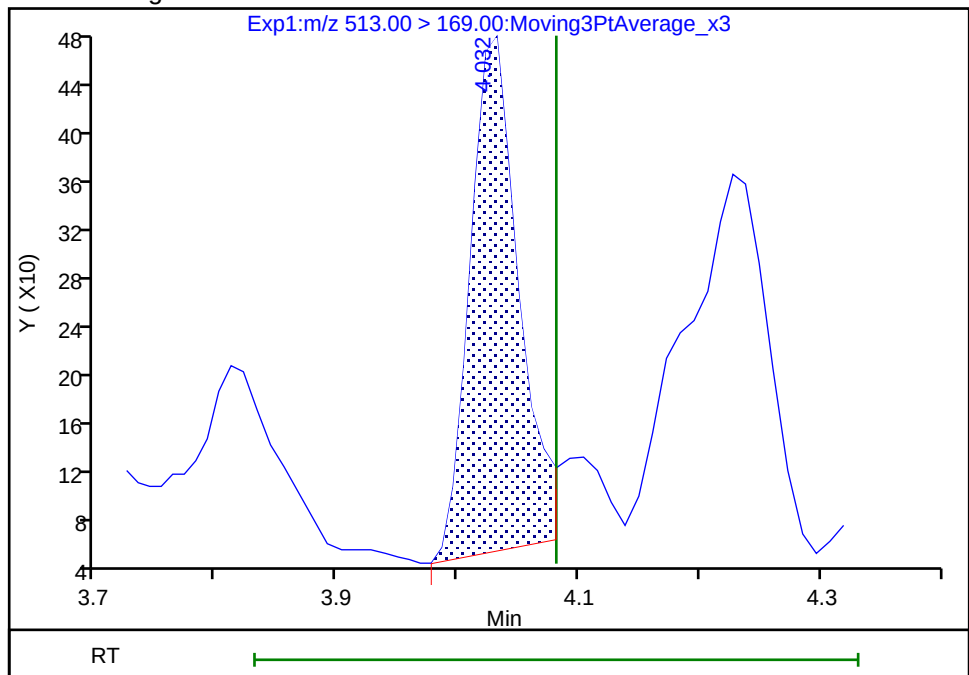
RT: 4.03
Area: 992
Amount: 0.003944
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 1175
Amount: 0.003573
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 69 of 11421/9/2023 1:31
PM

Eurofins Burlington

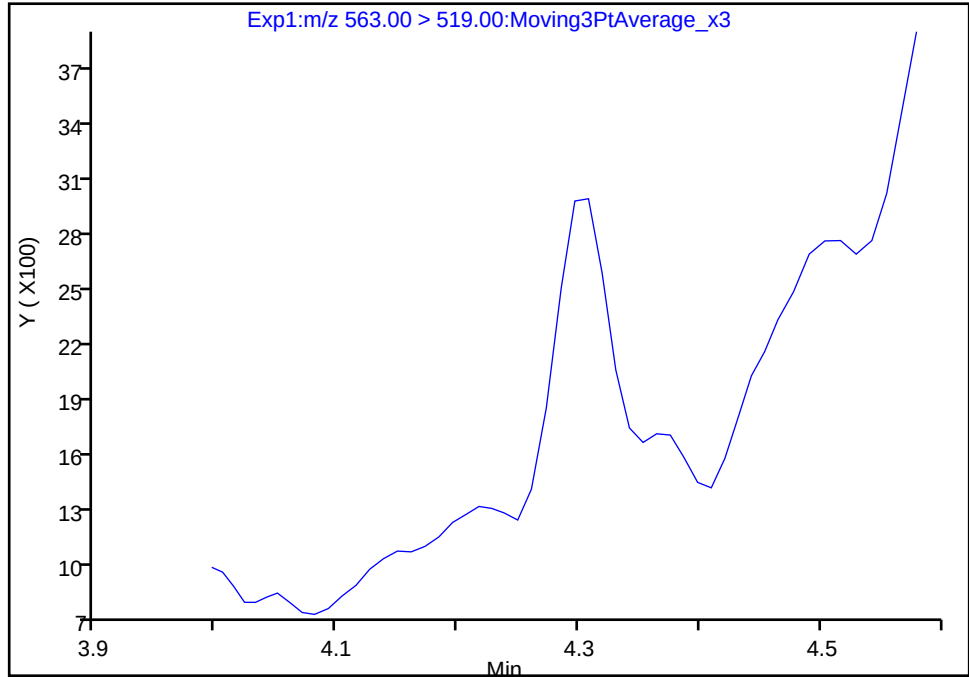
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

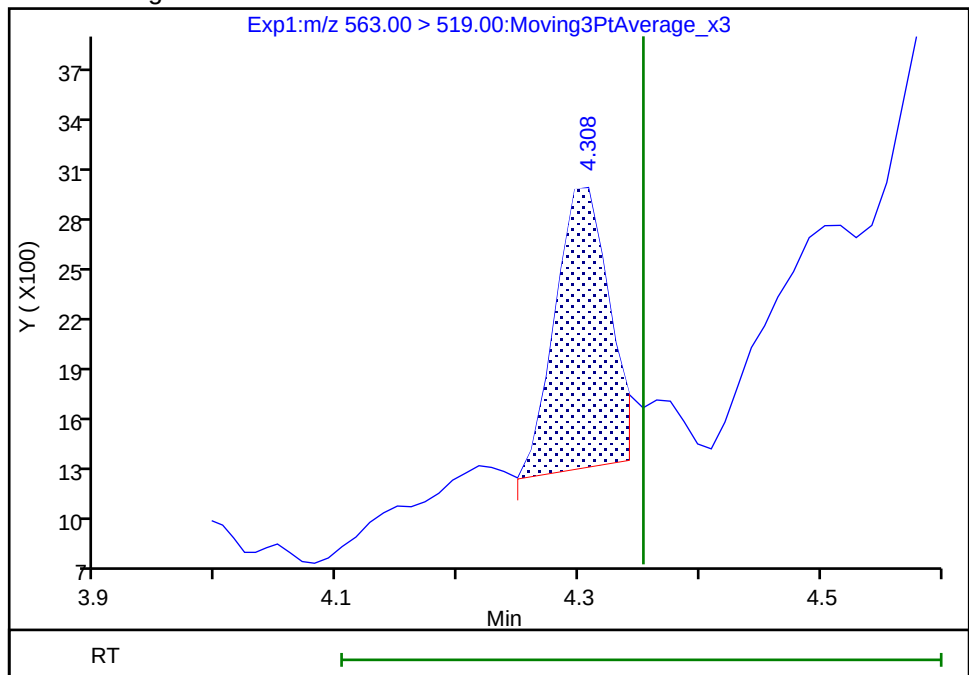
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.31
Area: 5065
Amount: 0.002401
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:11:57
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 70 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

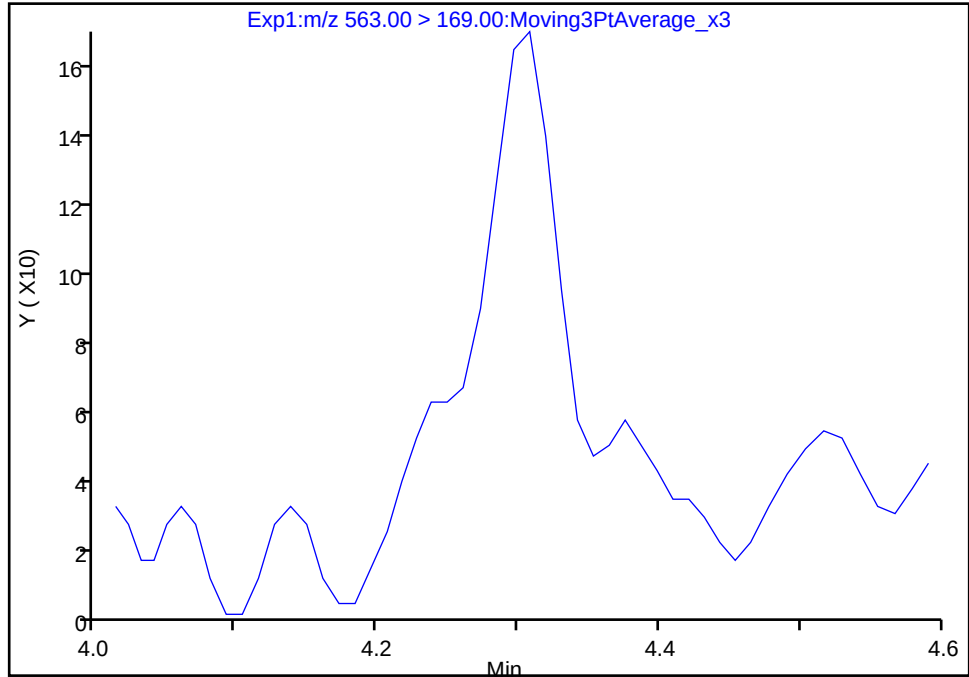
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

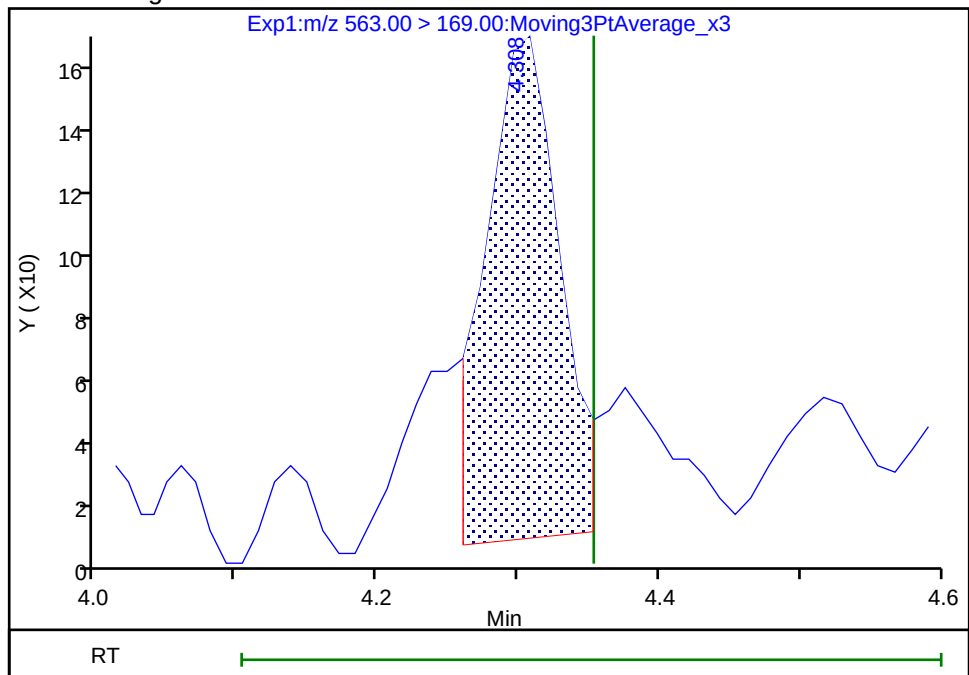
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.31
Area: 547
Amount: 0.002401
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:12:03

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

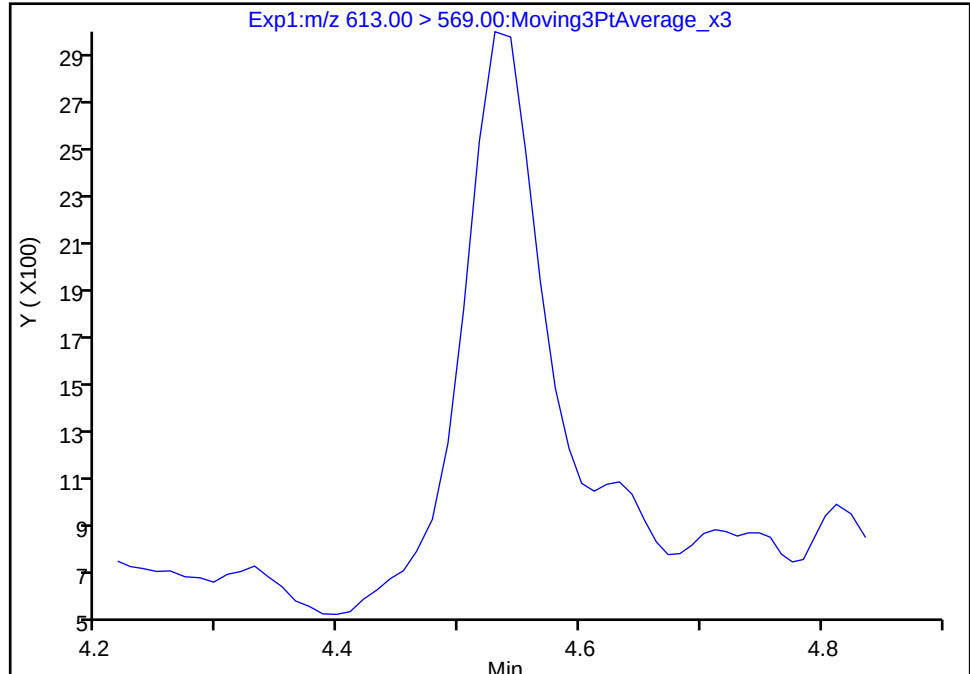
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

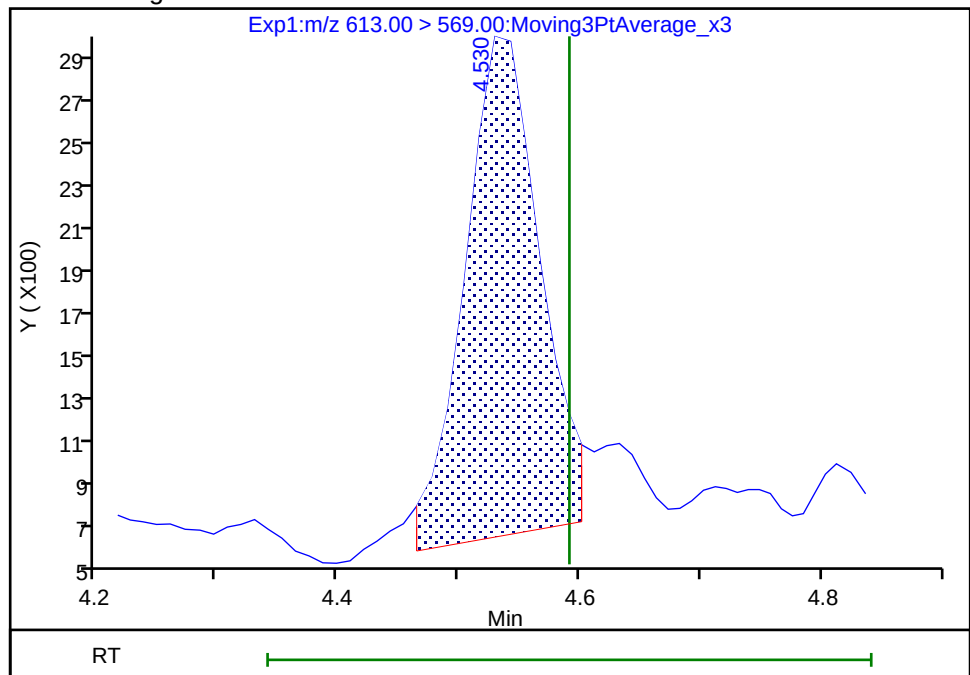
Not Detected
Expected RT: 4.59

Processing Integration Results



RT: 4.53
Area: 9771
Amount: 0.004577
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:12:38
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 72 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

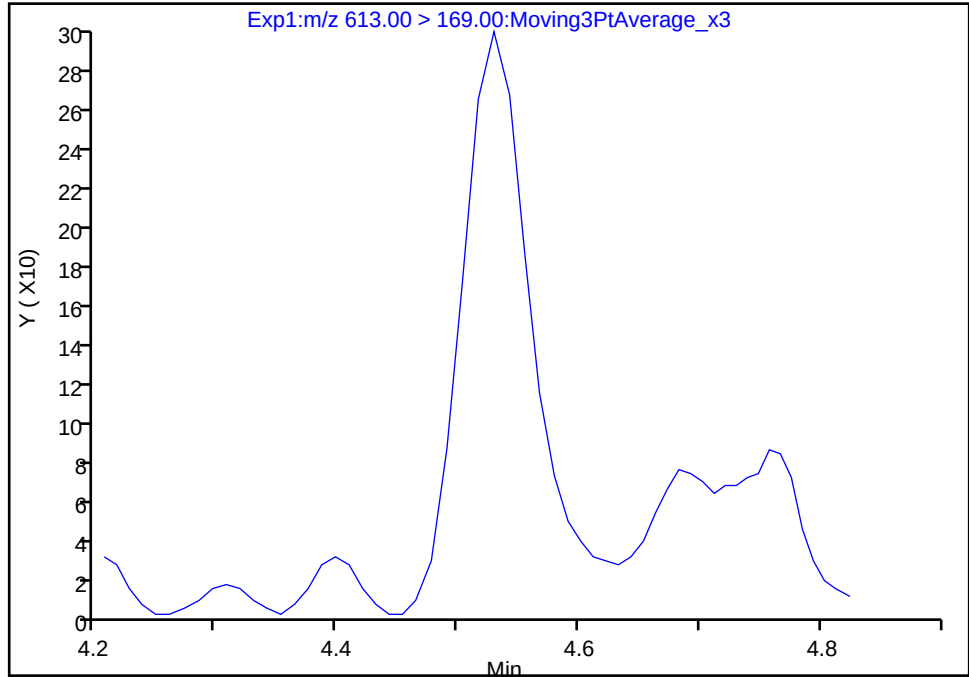
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

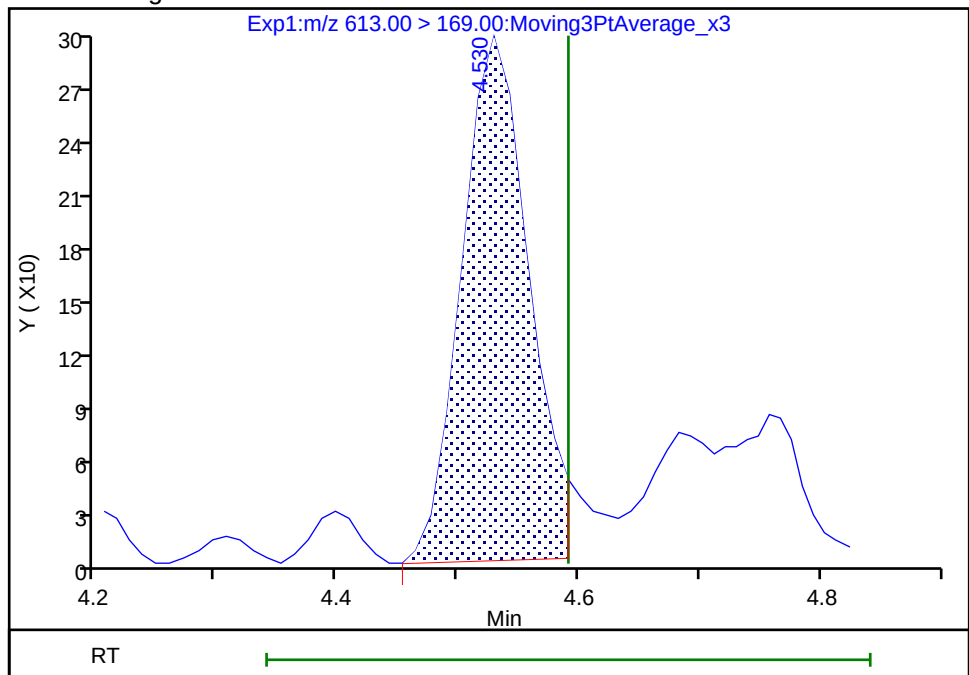
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.53
Area: 1124
Amount: 0.004577
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:12:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

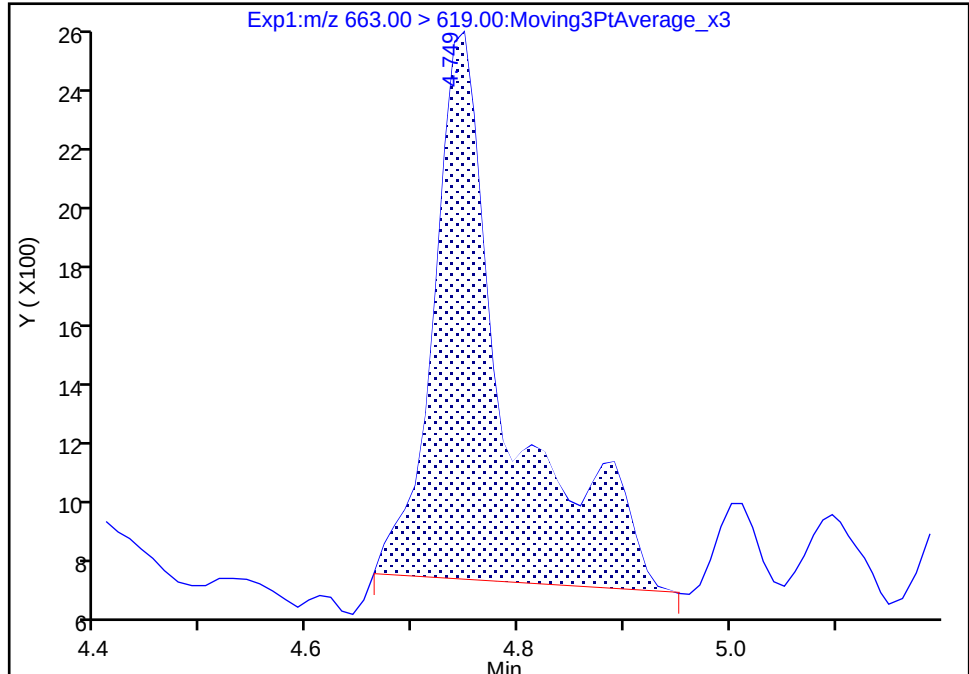
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

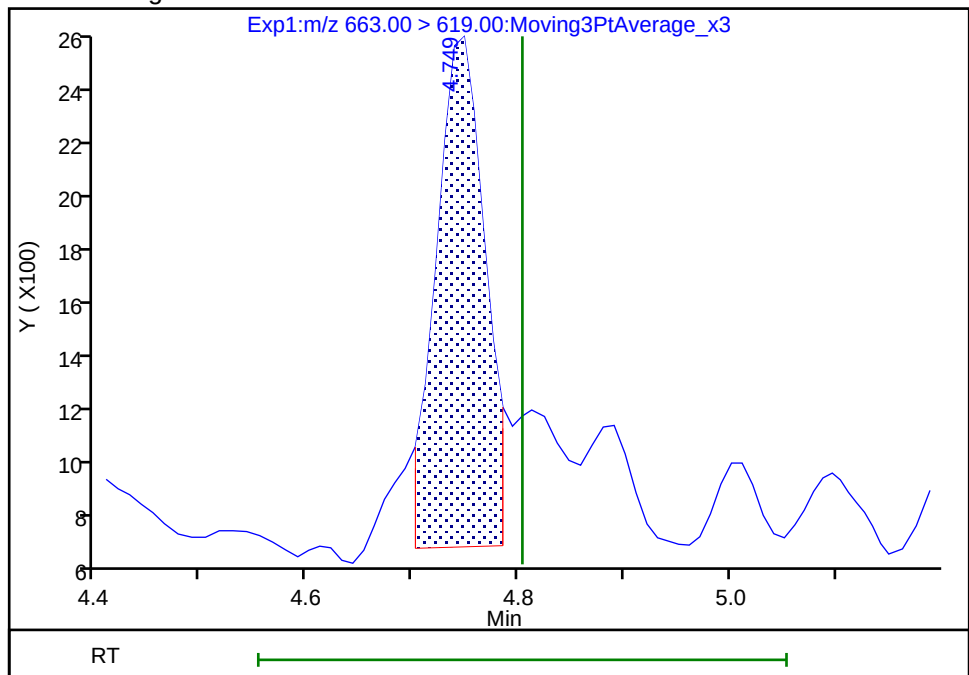
RT: 4.75
Area: 8960
Amount: 0.004389
Amount Units: ng/ml

Processing Integration Results



RT: 4.75
Area: 5964
Amount: 0.002921
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:13:07

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

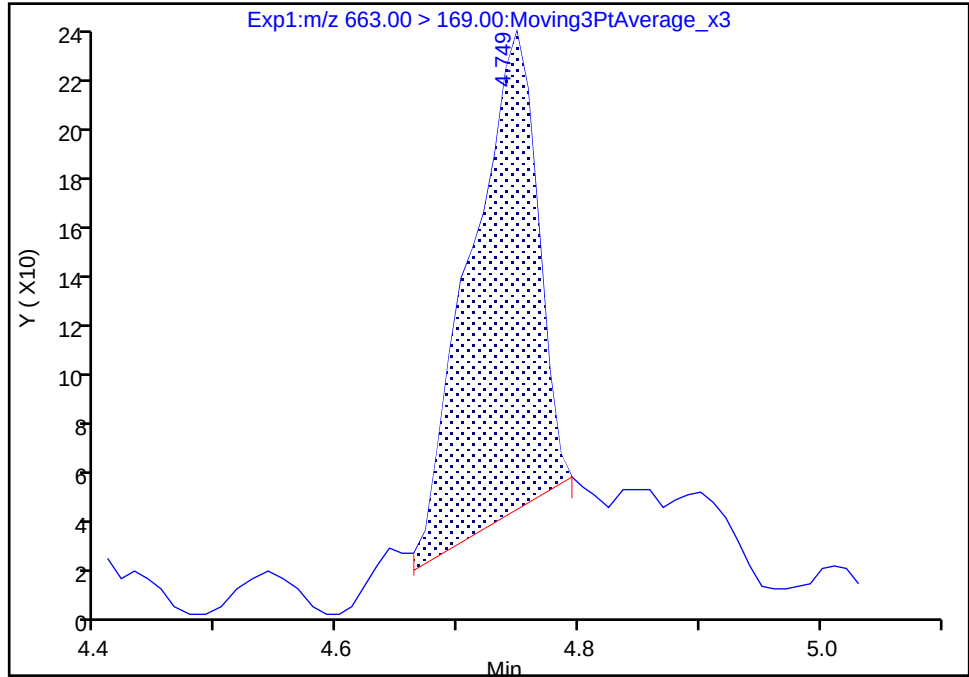
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

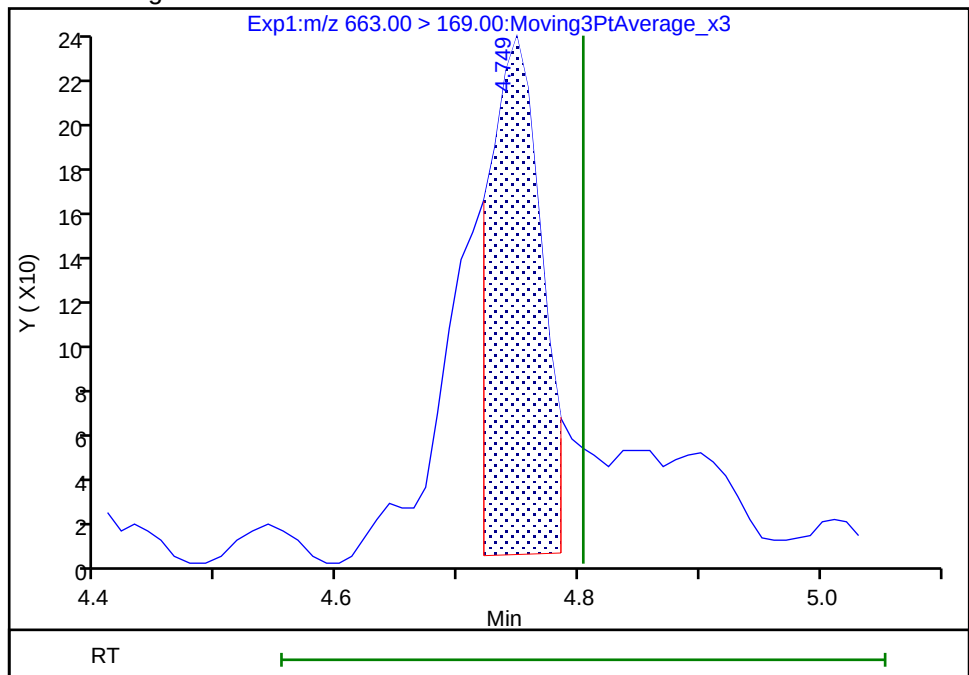
RT: 4.75
Area: 731
Amount: 0.004389
Amount Units: ng/ml

Processing Integration Results



RT: 4.75
Area: 638
Amount: 0.002921
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:13:12

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 75 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

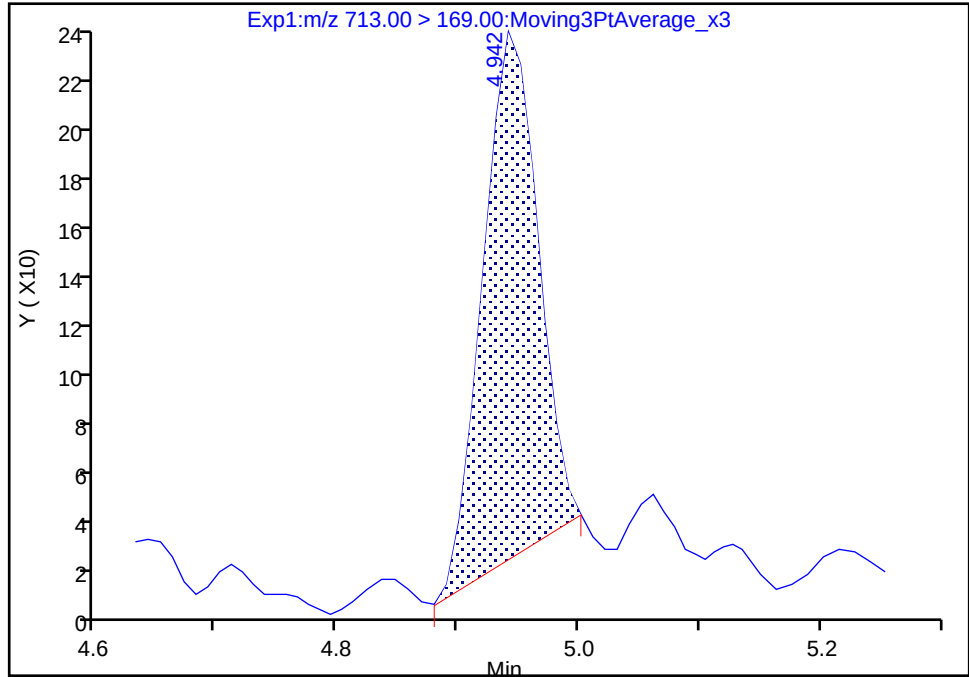
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

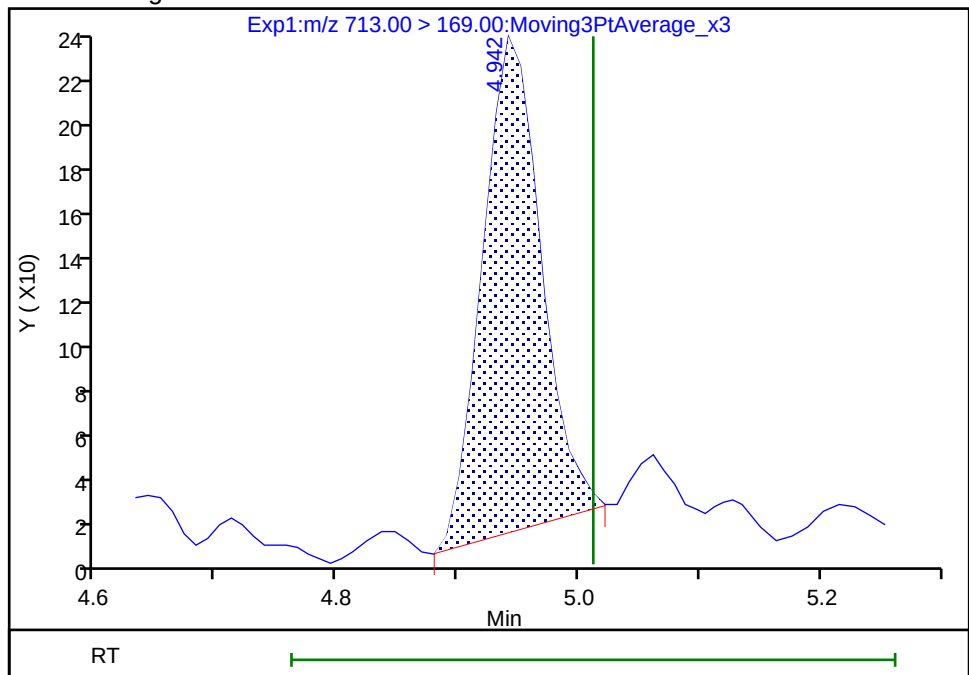
RT: 4.94
Area: 666
Amount: 0.002591
Amount Units: ng/ml

Processing Integration Results



RT: 4.94
Area: 738
Amount: 0.002871
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:13:18
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 76 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

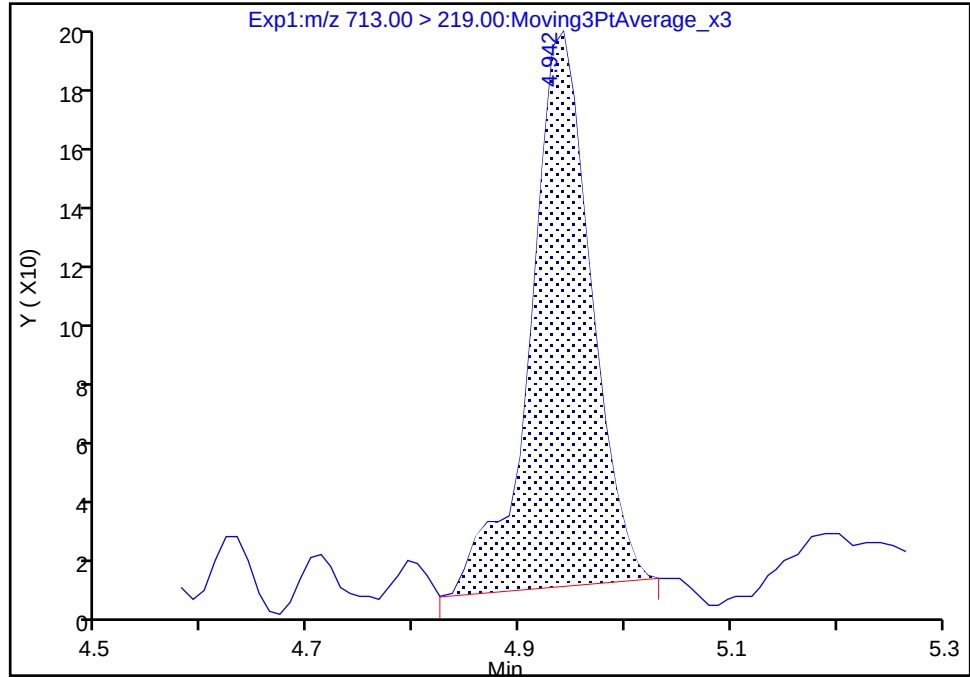
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

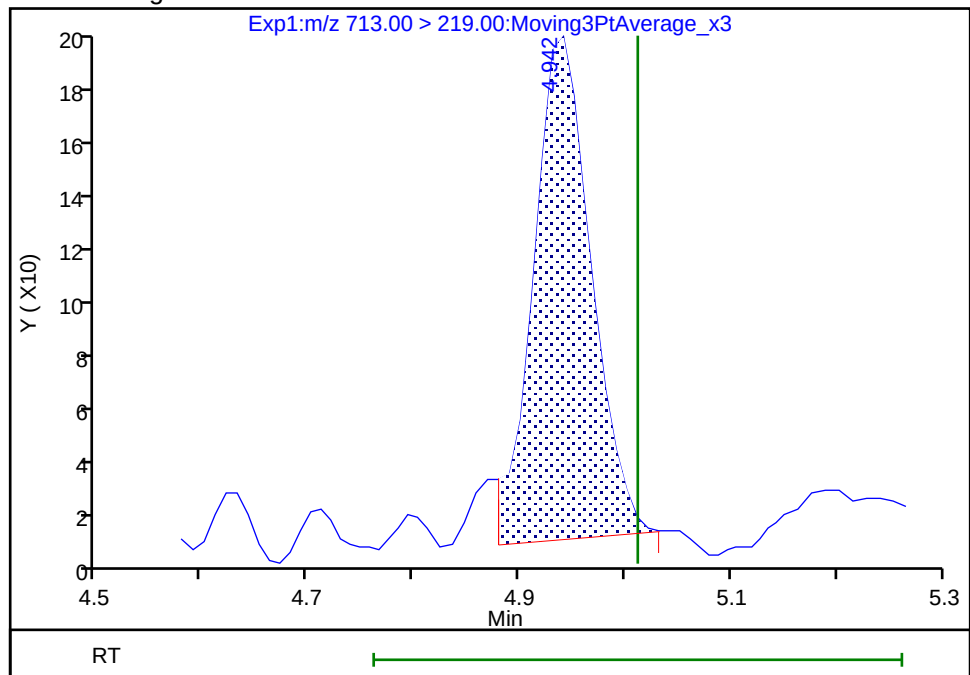
RT: 4.94
Area: 740
Amount: 0.002591
Amount Units: ng/ml

Processing Integration Results



RT: 4.94
Area: 702
Amount: 0.002871
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:13:33

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 77 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

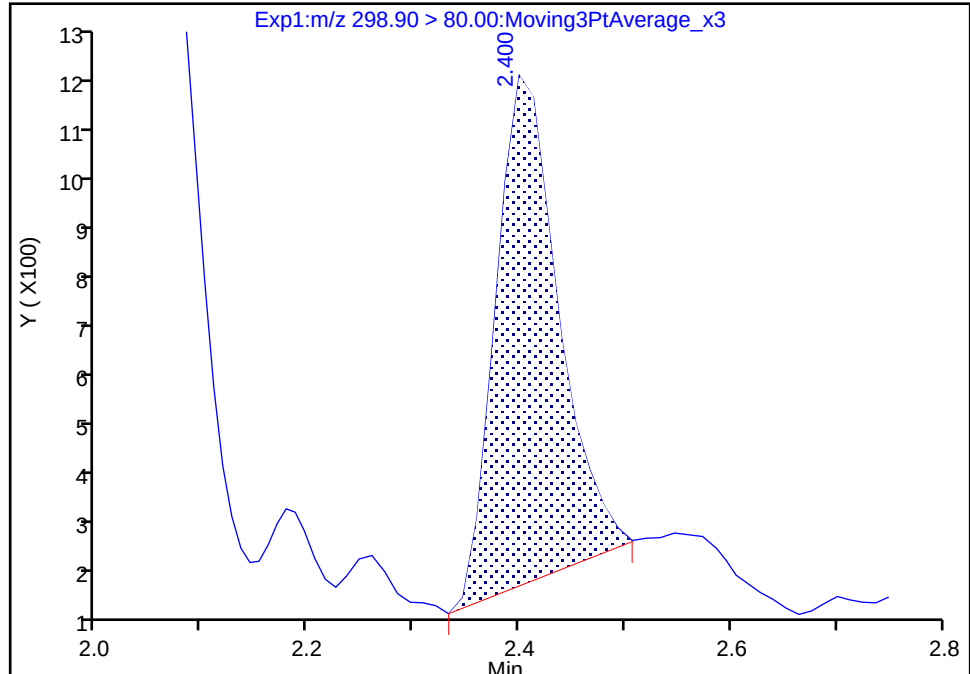
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

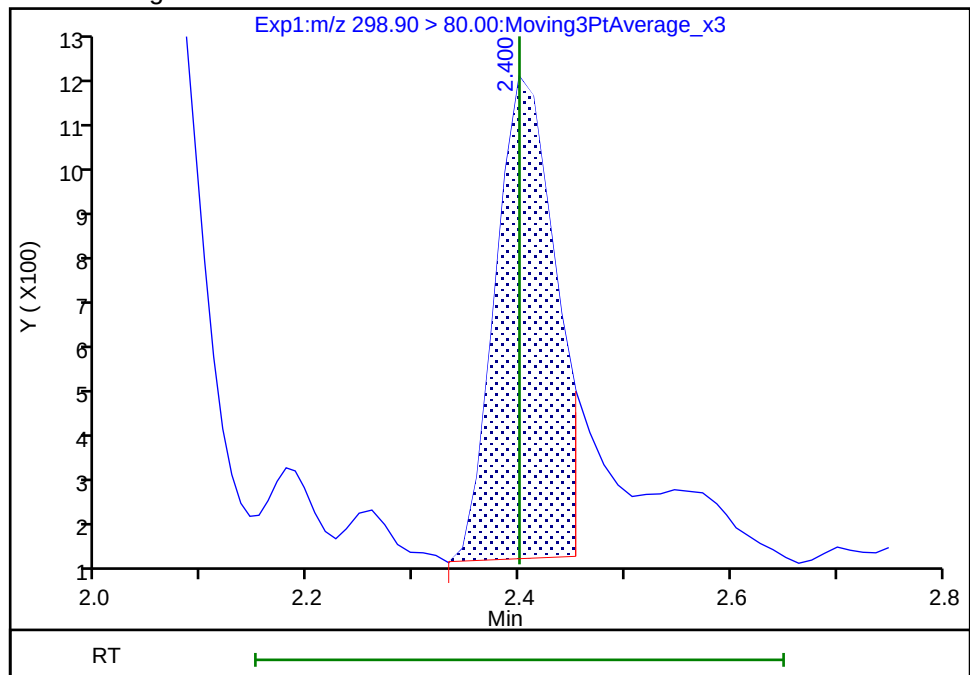
RT: 2.40
Area: 3633
Amount: 0.001712
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 3591
Amount: 0.001692
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:08:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

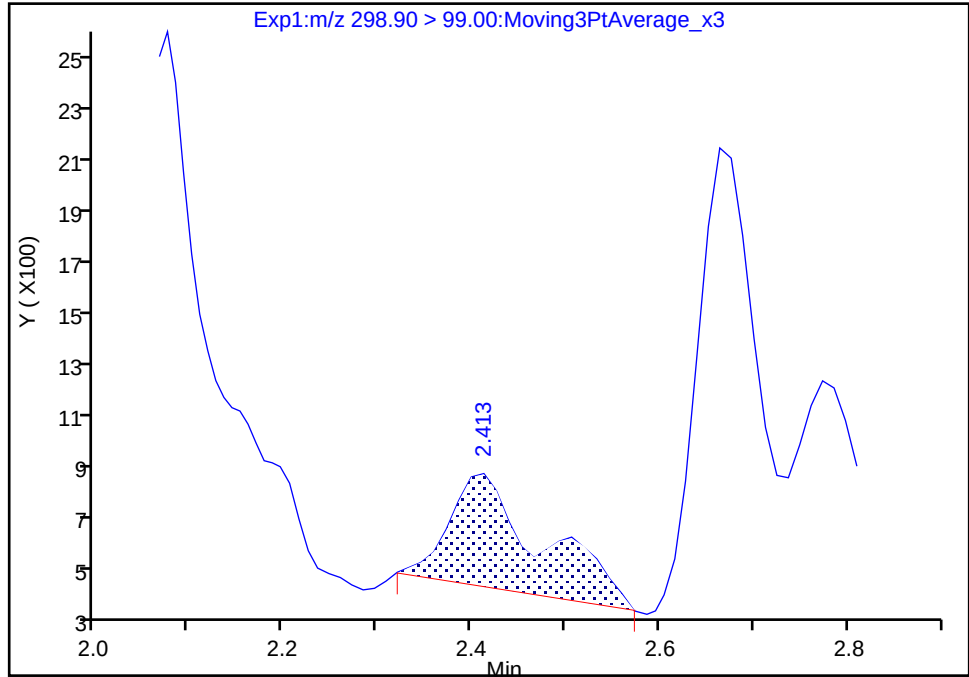
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

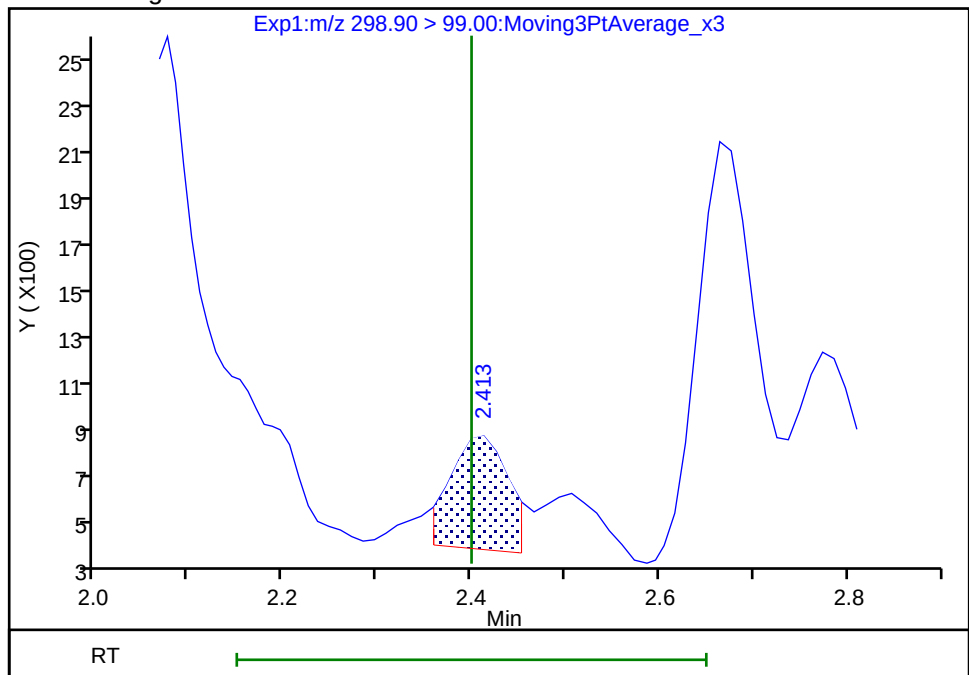
RT: 2.41
Area: 2933
Amount: 0.001712
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1963
Amount: 0.001692
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 79 of 11421/9/2023 1:31
PM

Eurofins Burlington

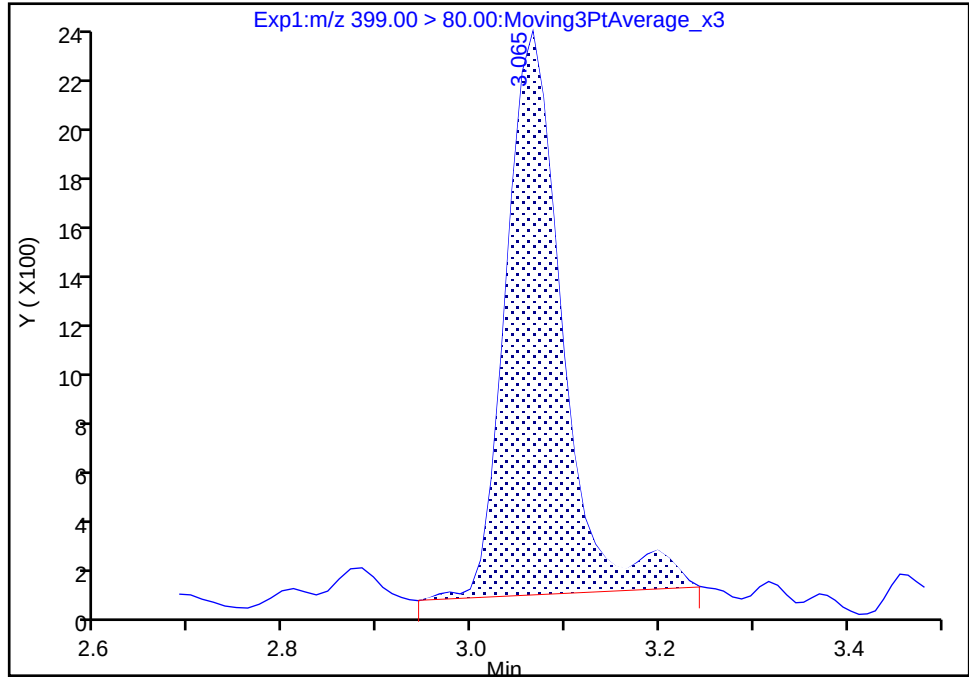
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

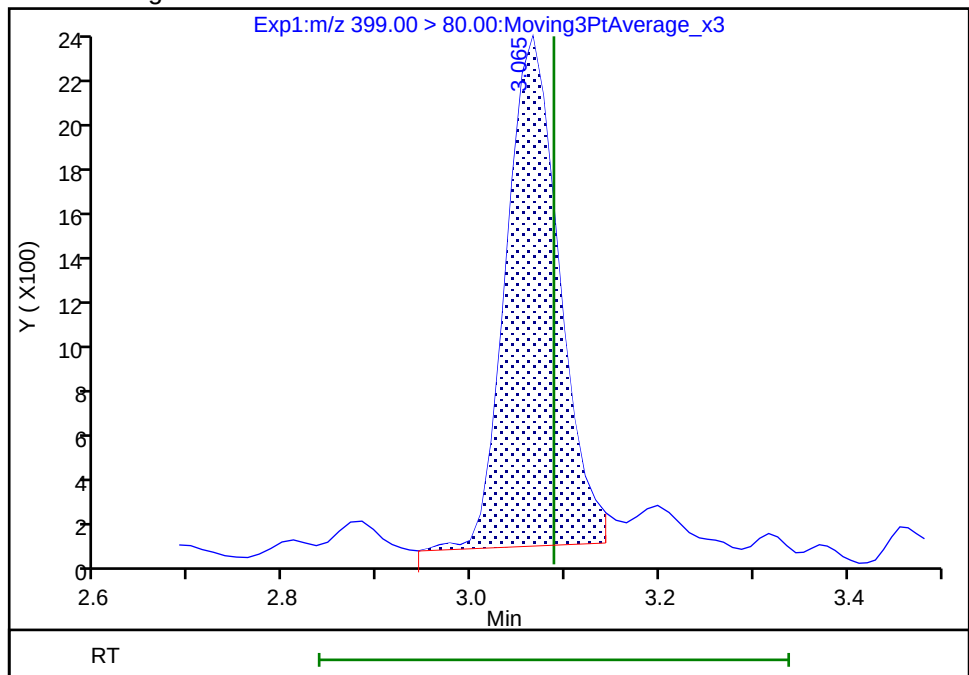
RT: 3.07
Area: 9272
Amount: 0.005860
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 8710
Amount: 0.005504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

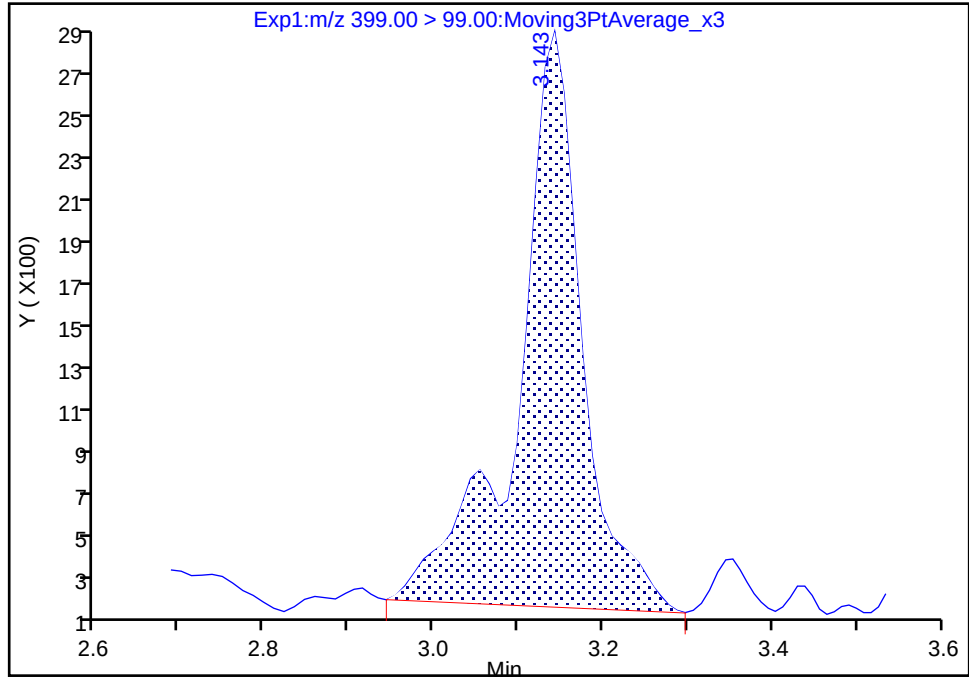
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

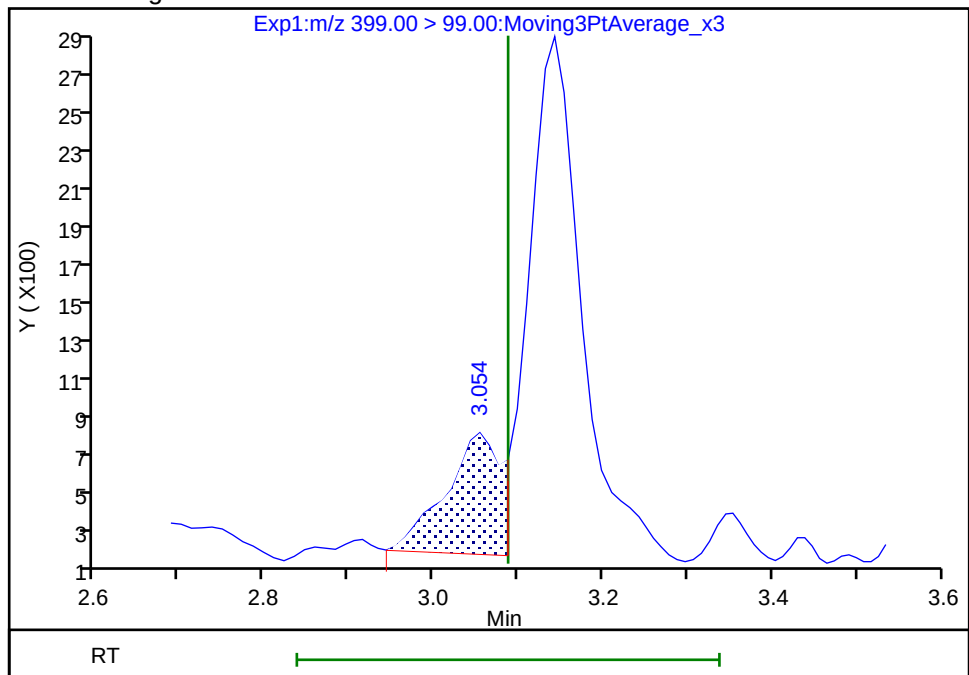
RT: 3.14
Area: 14639
Amount: 0.005860
Amount Units: ng/ml

Processing Integration Results



RT: 3.05
Area: 2820
Amount: 0.005504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 81 of 11421/9/2023 1:31
PM

Eurofins Burlington

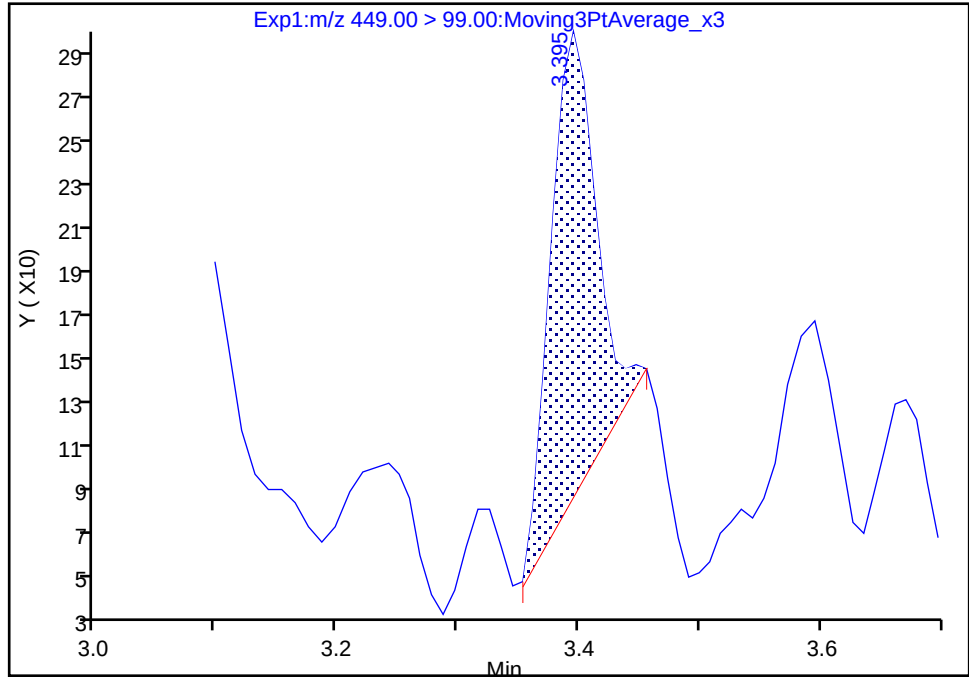
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

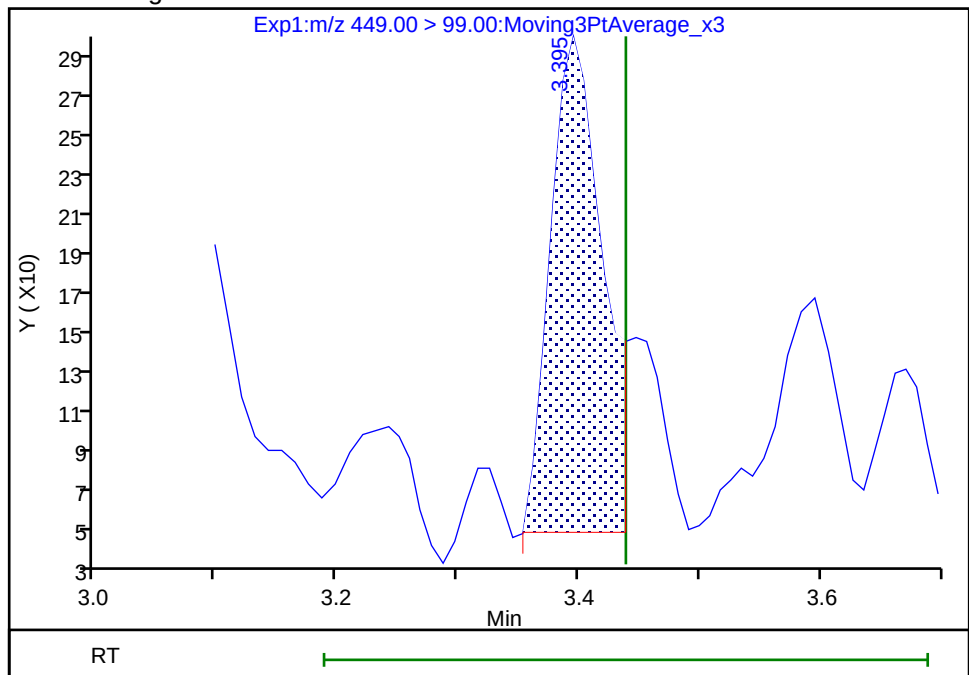
RT: 3.40
Area: 556
Amount: 0.001031
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 743
Amount: 0.001259
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 82 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

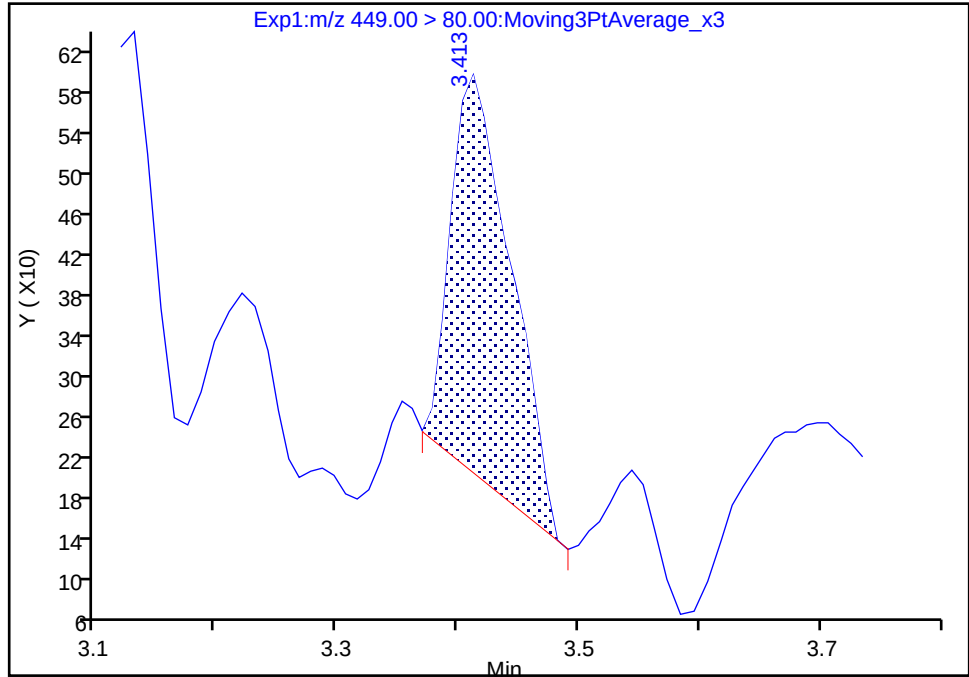
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

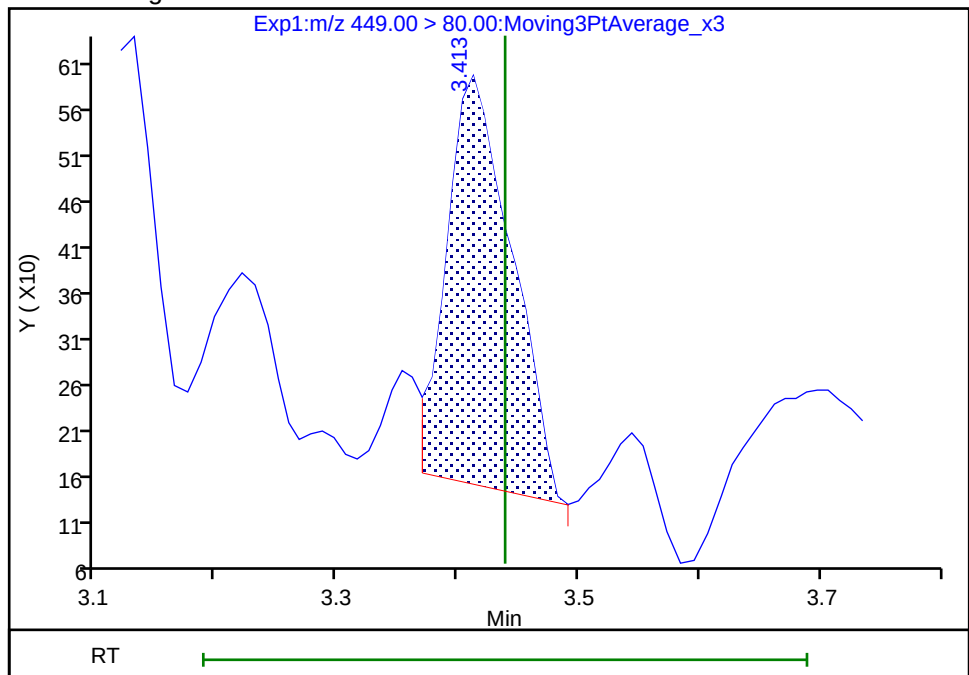
RT: 3.41
Area: 1343
Amount: 0.001031
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 1639
Amount: 0.001259
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 83 of 11421/9/2023 1:31
PM

Eurofins Burlington

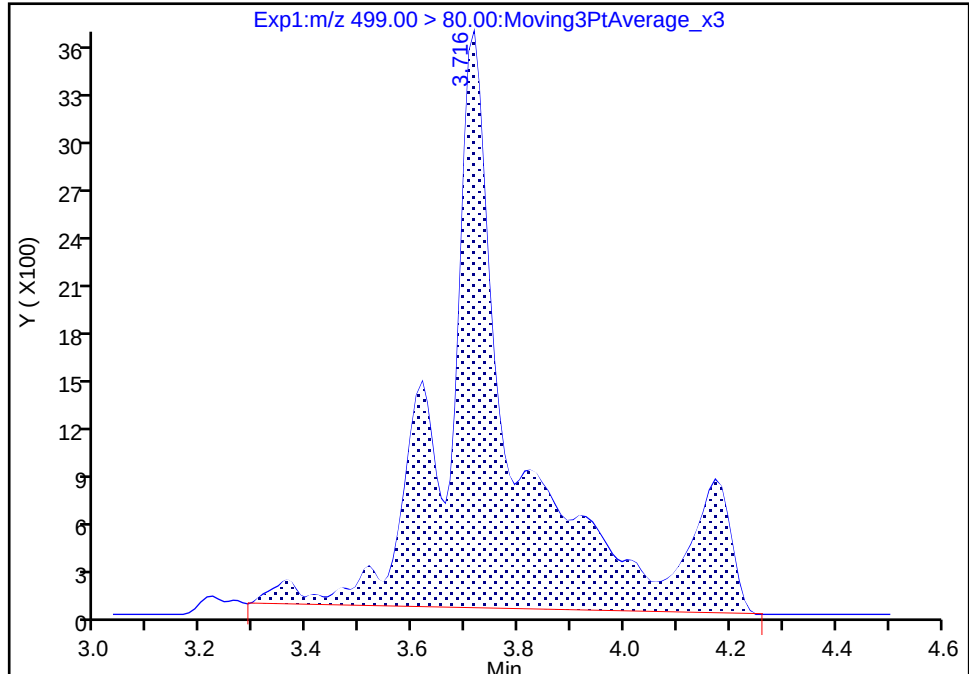
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

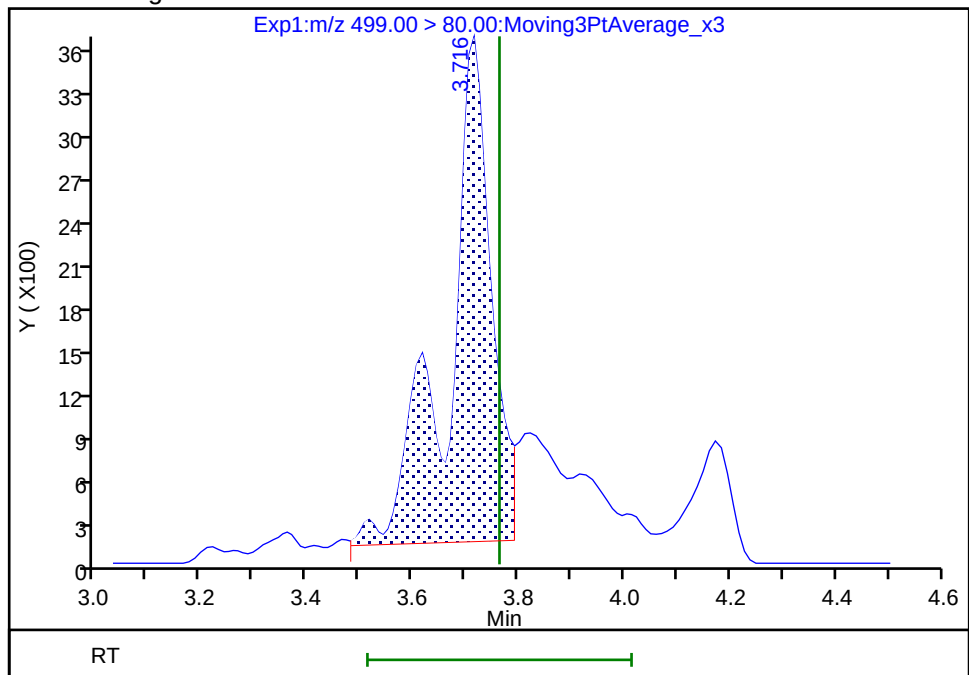
RT: 3.72
Area: 36146
Amount: 0.031878
Amount Units: ng/ml

Processing Integration Results



RT: 3.72
Area: 20114
Amount: 0.017739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

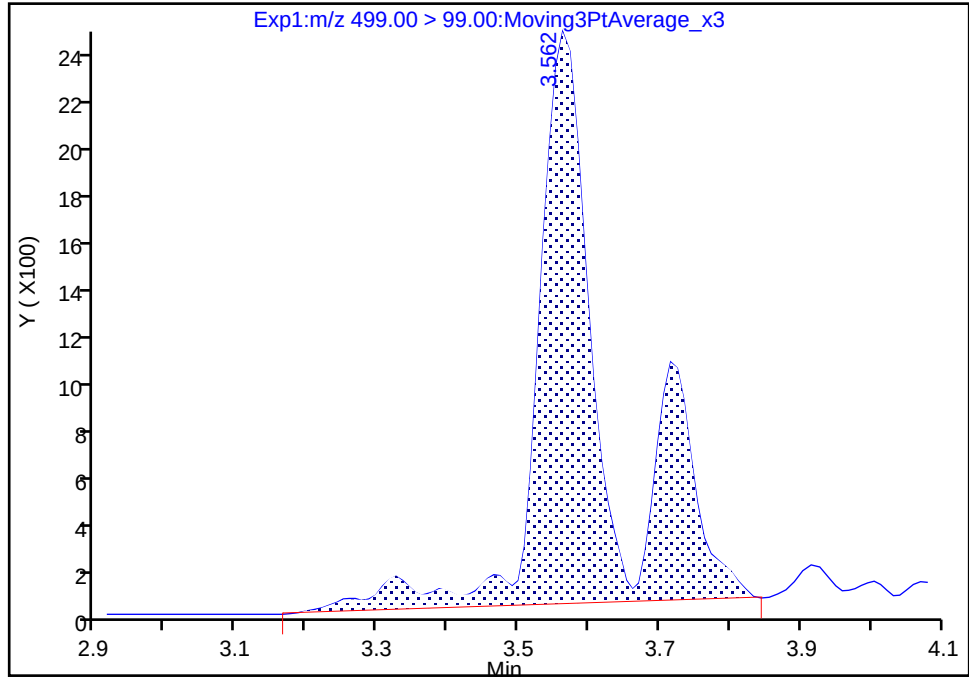
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

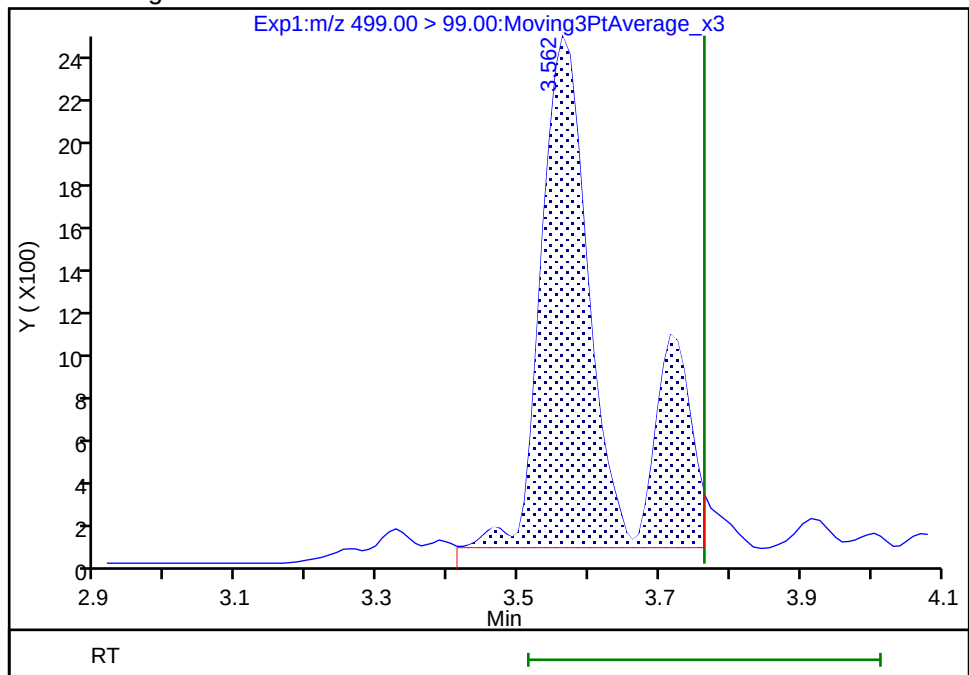
RT: 3.56
Area: 16644
Amount: 0.031878
Amount Units: ng/ml

Processing Integration Results



RT: 3.56
Area: 14545
Amount: 0.017739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

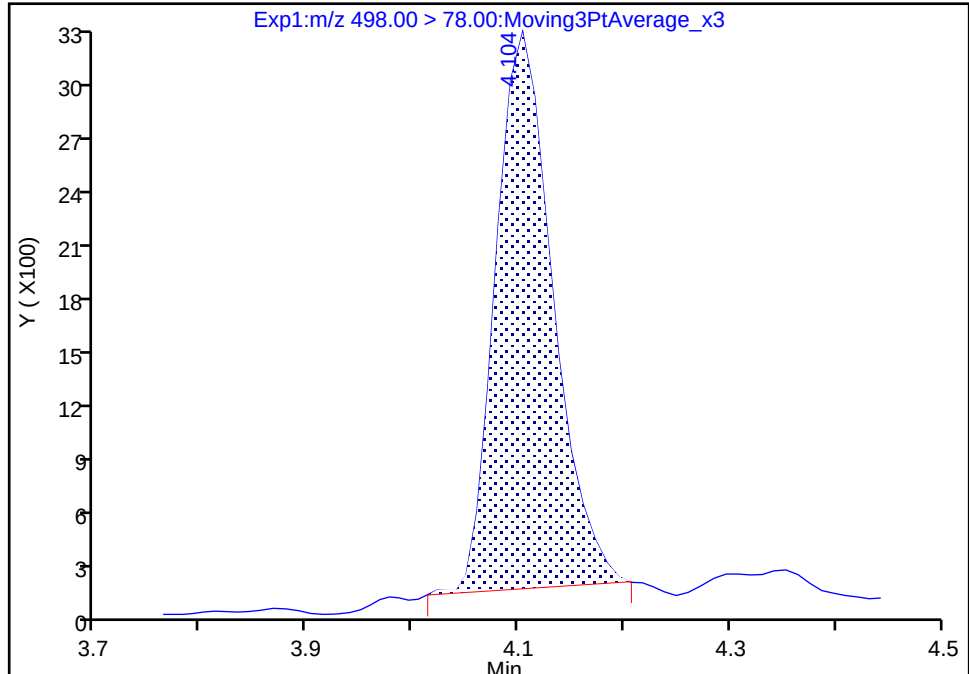
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

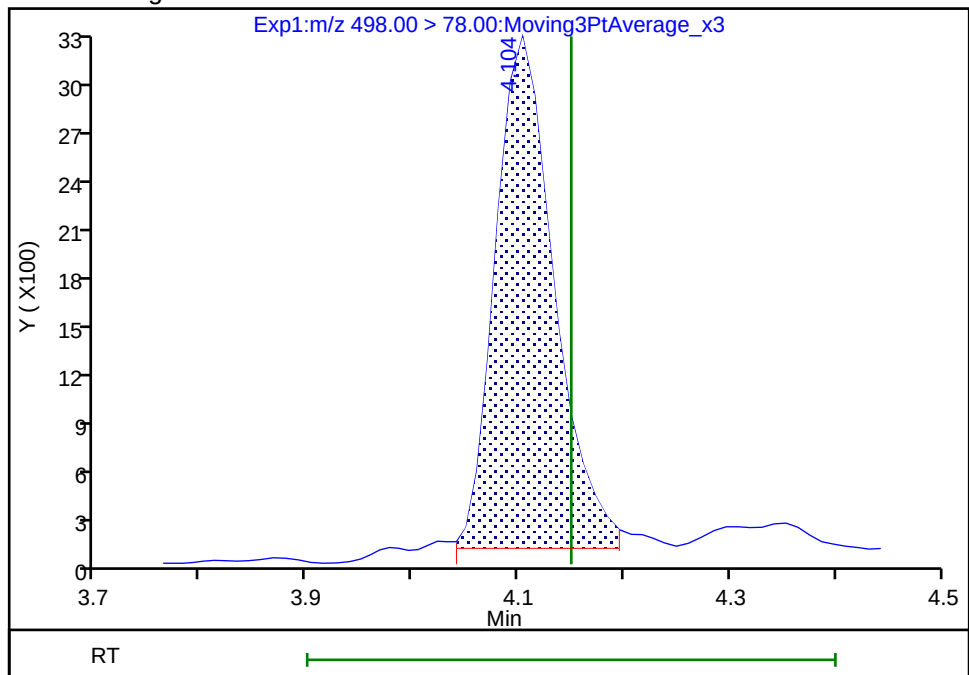
RT: 4.10
Area: 11832
Amount: 0.007154
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 12303
Amount: 0.007438
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

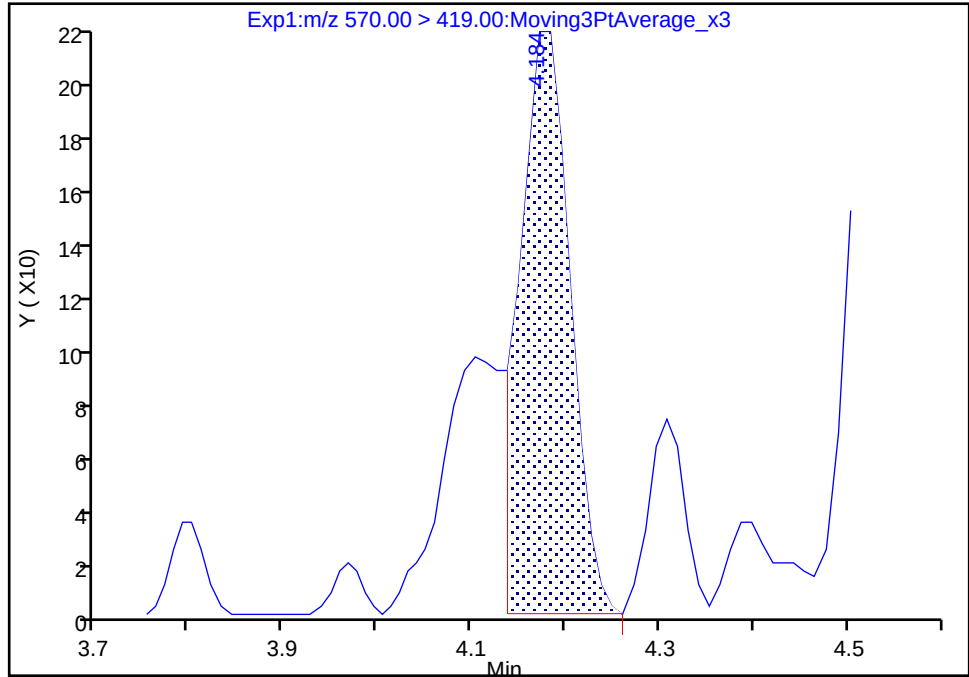
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

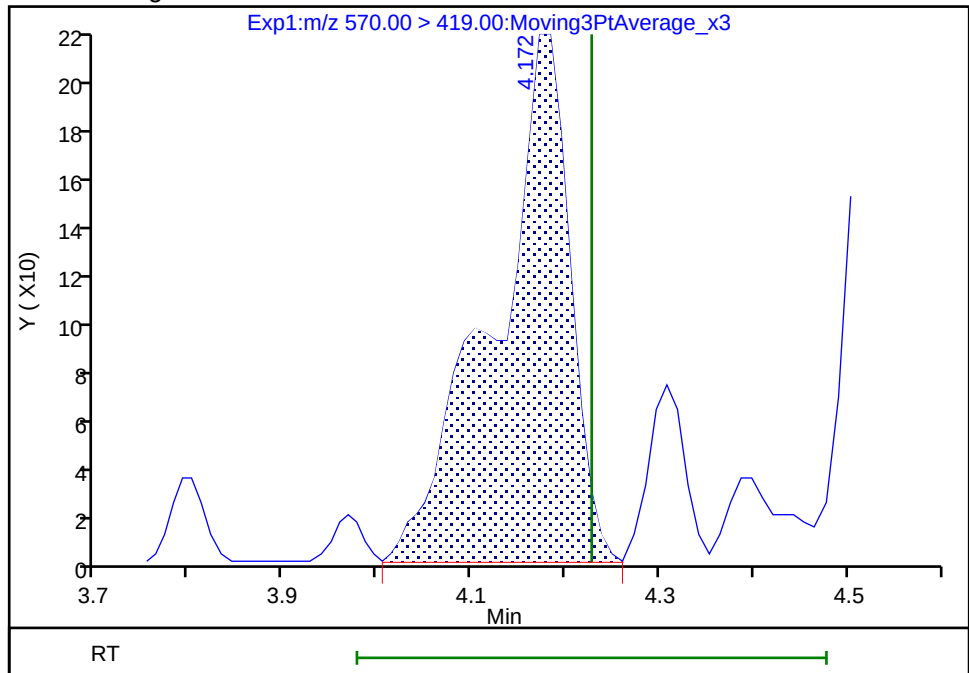
RT: 4.18
Area: 784
Amount: -0.009463
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 1213
Amount: -0.008279
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 87 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

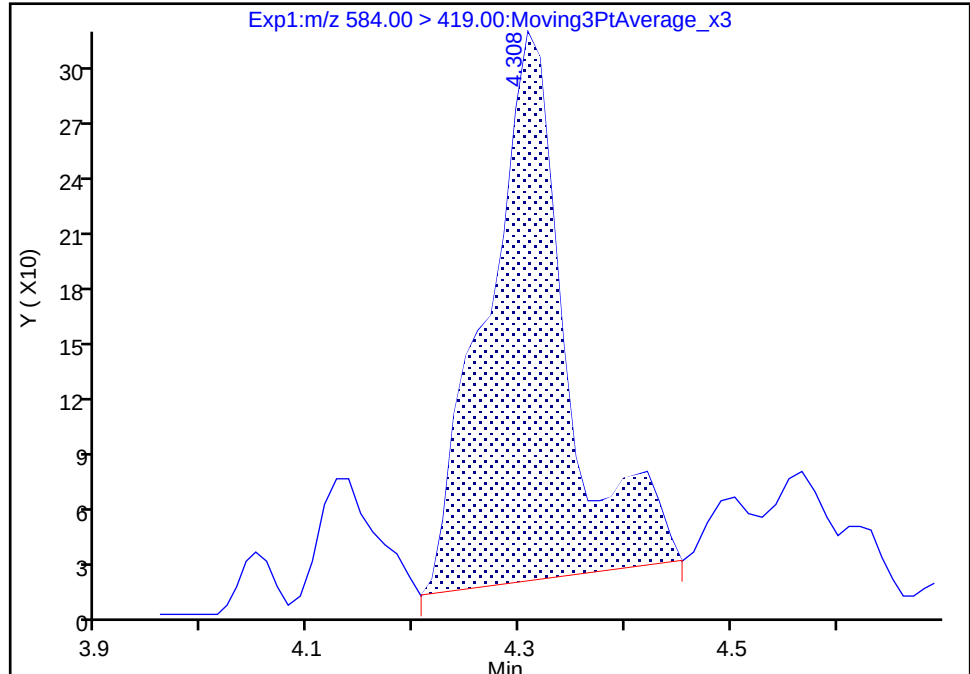
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

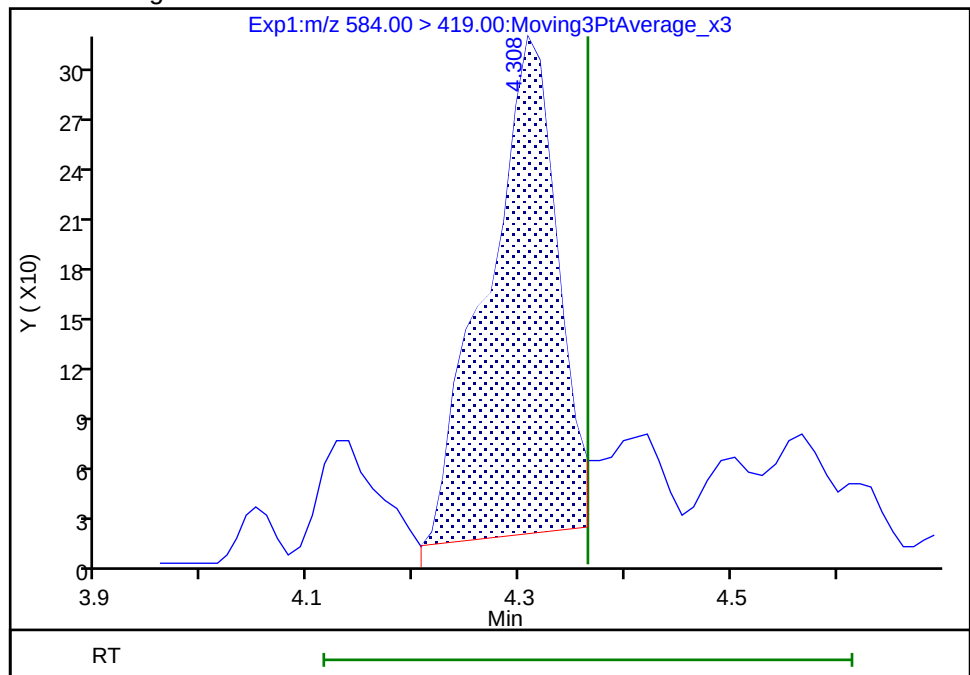
RT: 4.31
Area: 1584
Amount: 0.003990
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 1383
Amount: 0.003484
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:12:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

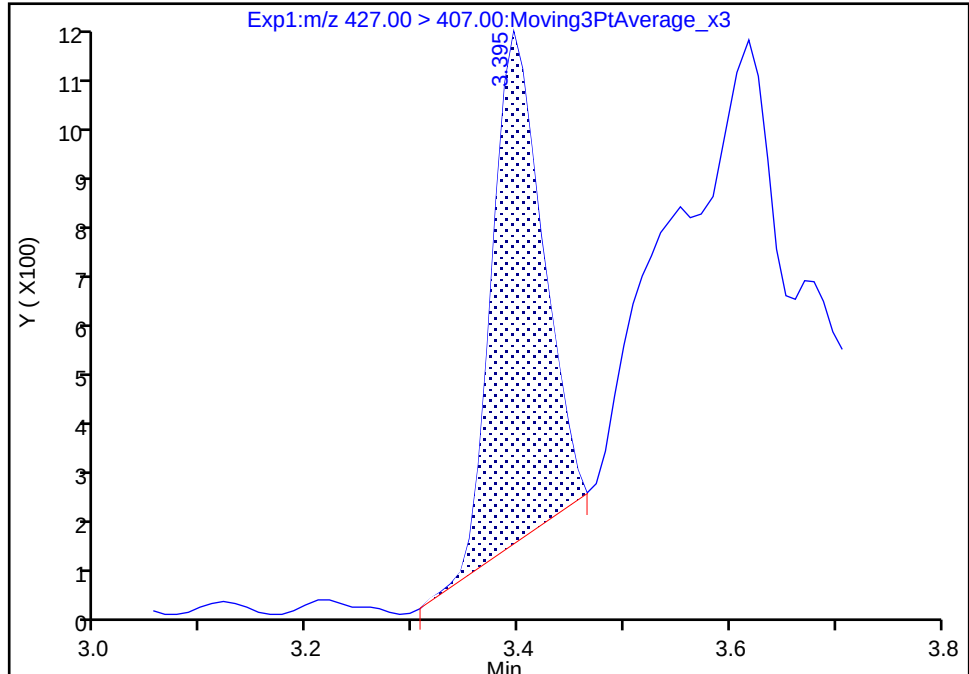
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

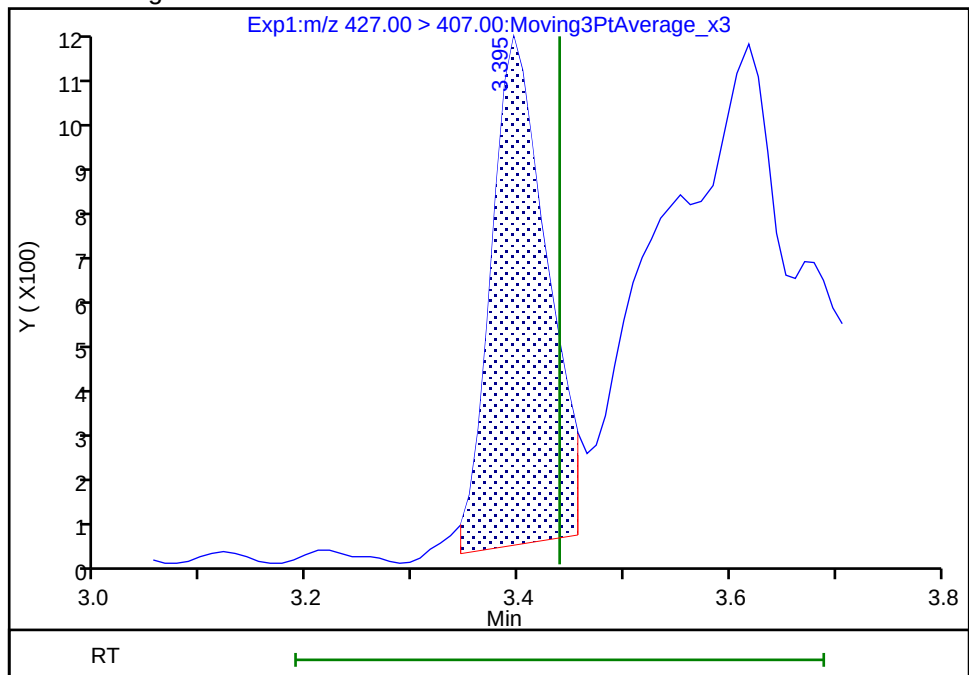
RT: 3.40
Area: 3289
Amount: -0.006441
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 3950
Amount: -0.005349
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:10:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 89 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

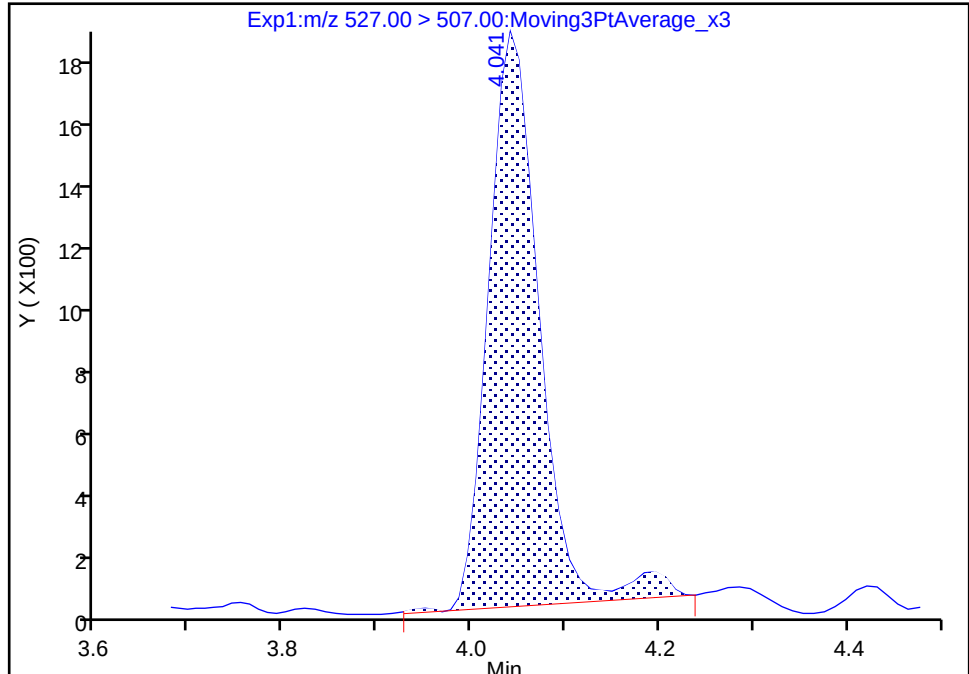
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d
Injection Date: 30-Dec-2022 14:55:46 Instrument ID: LC812
Lims ID: 460-271837-A-1-A Lab Sample ID: 200-271837-1
Client ID: BCS-21-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

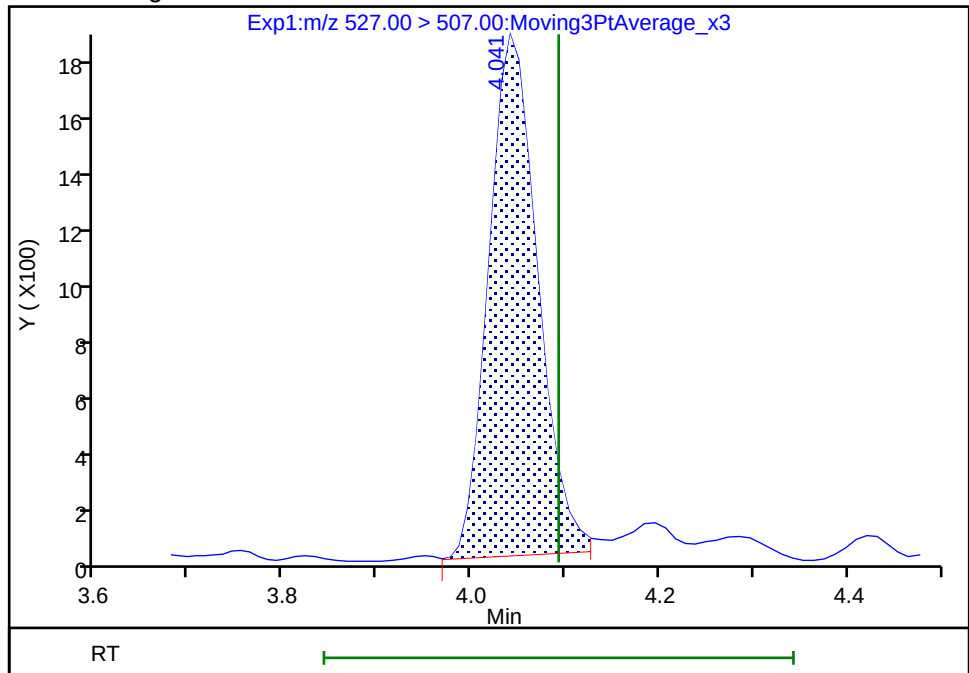
RT: 4.04
Area: 6739
Amount: 0.011728
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 6426
Amount: 0.011184
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

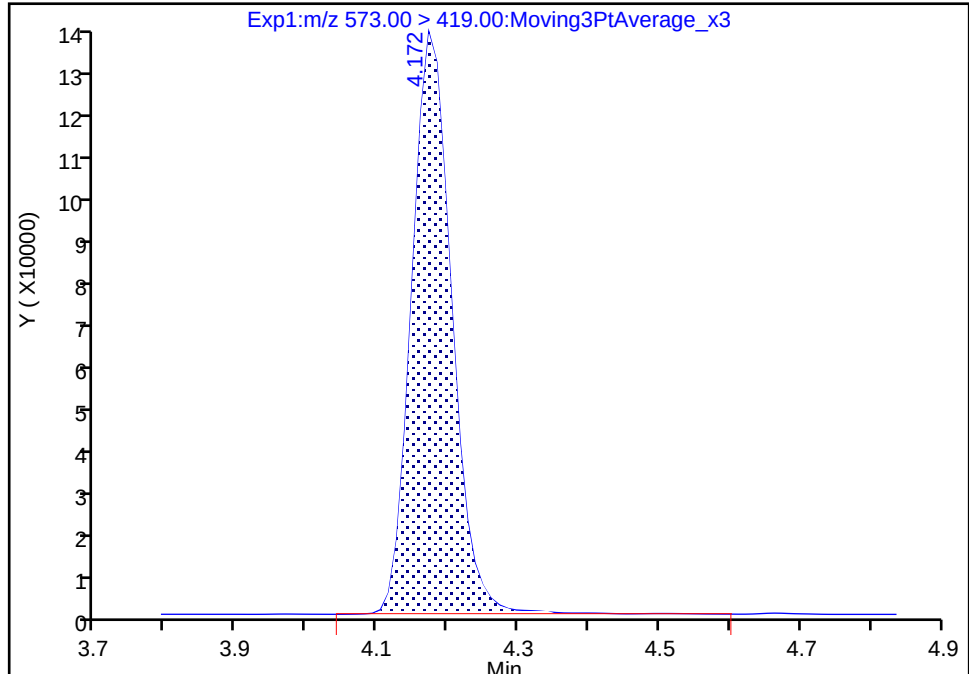
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

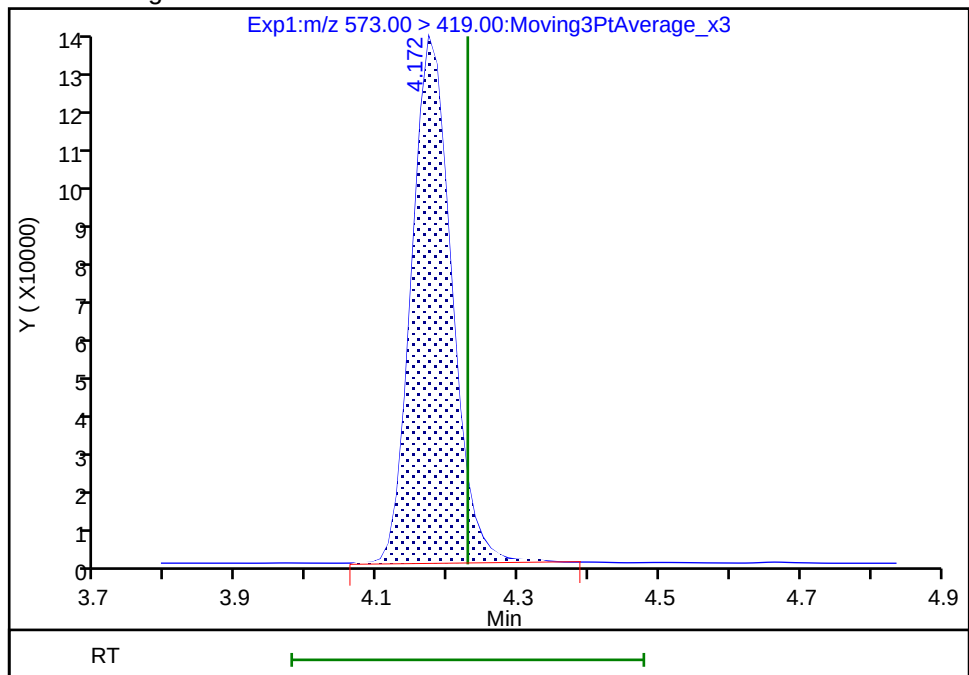
RT: 4.17
Area: 531736
Amount: 1.085710
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 526534
Amount: 1.075089
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:11:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

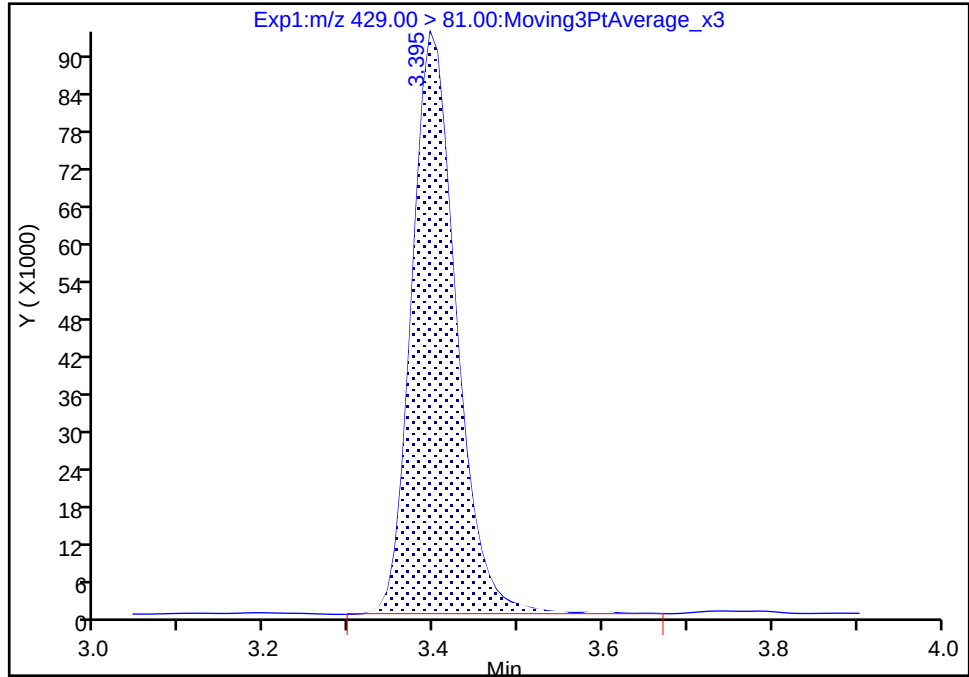
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A17.d				
Injection Date:	30-Dec-2022 14:55:46	Instrument ID:	LC812		
Lims ID:	460-271837-A-1-A	Lab Sample ID:	200-271837-1		
Client ID:	BCS-21-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

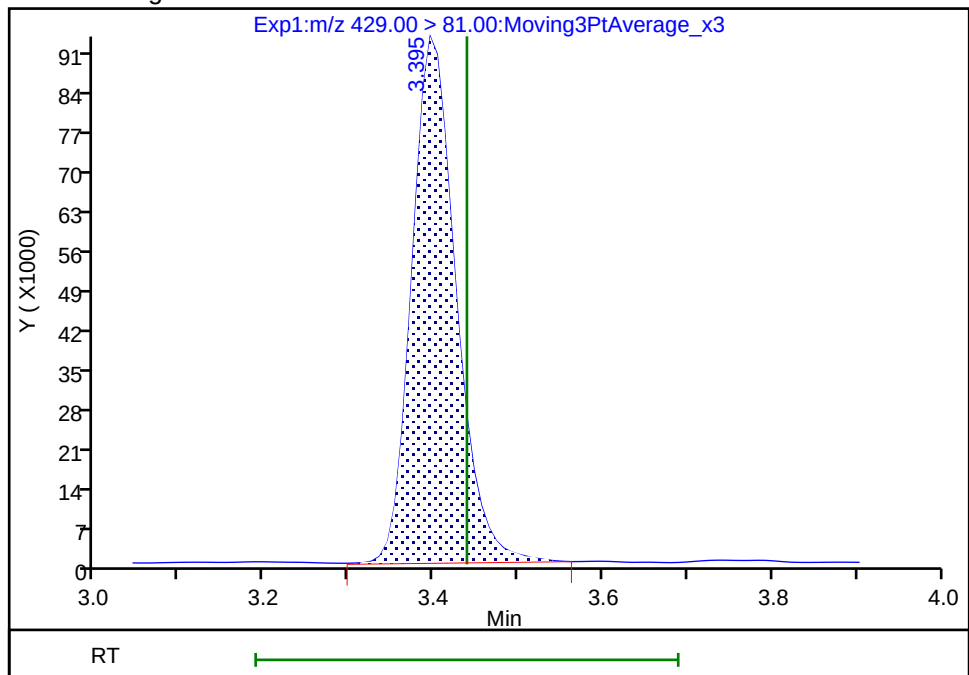
RT: 3.40
Area: 343186
Amount: 1.289741
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 340361
Amount: 1.279124
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:09:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: BCS-21-22_(10-10.5)P Lab Sample ID: 460-271837-2

Matrix: Solid Lab File ID: PA221230A18.d

Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:15

Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05

Sample wt/vol: 5.16(g) Date Analyzed: 12/30/2022 15:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 28.6 % Solids: 71.4 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.68	U	0.68	0.45
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.075
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.062
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.056
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.72	U	2.72	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.72	U	2.72	0.11
27619-97-2	6:2 FTS	2.72	U	2.72	0.077
39108-34-4	8:2 FTS	2.72	U	2.72	0.050

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: BCS-21-22_(10-10.5)P Lab Sample ID: 460-271837-2
 Matrix: Solid Lab File ID: PA221230A18.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:15
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.16(g) Date Analyzed: 12/30/2022 15:03
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 28.6 % Solids: 71.4 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	82		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	88		50-150
STL00991	13C4 PFOS	79		50-150
STL00995	13C5 PFNA	87		50-150
STL00992	13C4 PFBA	84		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	86		50-150
STL00997	13C2 PFUnA	91		50-150
STL00998	13C2 PFDoA	90		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	82		50-150
STL02116	13C2 PFTeDA	98		50-150
STL02118	d3-NMeFOSAA	77		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	105		50-150
STL02280	M2-8:2 FTS	102		50-150
STL02337	13C3 PFBS	81		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
 Lims ID: 460-271837-A-2-A
 Client ID: BCS-21-22_(10-10.5)P
 Sample Type: Client
 Inject. Date: 30-Dec-2022 15:03:55 ALS Bottle#: 15 Worklist Smp#: 18
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271837-A-2-A
 Misc. Info.: 200-0053865-018 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 10:19:38

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.094	2.076	0.018	0.613	2801003	1.04		83.5	8717	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.103	2.076	0.027	1.004	100192	0.0434			6.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.387	0.004	0.700	2089730	1.02		81.8	2680	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.391	2.387	0.004	1.000	18013	0.009887			0.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.404	2.400	0.004	0.703	2081942	0.9379		80.7	108481	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.404	2.400	0.004	1.000	4989	0.002435	Target=2.09		1.7	RM
298.90 > 99.00	2.404	2.400	0.004	1.000	1248		4.00(1.04-3.13)		0.2	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.720	2.725	-0.005	0.796	2214583	1.03		82.8	3638	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.720	2.725	-0.005	1.000	18938	0.009810	Target=14.25		1.8	M
313.00 > 119.00	2.708	2.725	-0.017	0.996	1314		14.41(7.12-21.37)		1.3	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.072	3.088	-0.016	0.899	1558858	0.9640		81.5	3400	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.072	3.088	-0.016	1.000	10005	0.006724	Target=3.66		4.6	M
399.00 > 99.00	3.094	3.088	0.006	1.007	3931		2.55(1.83-5.49)		1.0	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.072	3.099	-0.027	0.899	2465818	1.12		89.6	3544	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.072	3.099	-0.027	1.000	11354	0.005286	Target=3.97		1.4	M
363.00 > 169.00	3.072	3.099	-0.027	1.000	2508		4.53(1.98-5.95)		3.3	

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	3.400	3.439	-0.039	0.995	337326	1.24		105	208	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.400	3.439	-0.039	1.000	4007	-0.005195			3.8	
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.392	3.439	-0.047	0.911	1477	0.001225	Target=5.14		1.1	RM
449.00 > 99.00	3.400	3.439	-0.039	0.914	1321		1.12(2.57-7.72)		1.2	M
D 14 13C4 PFOA										
417.00 > 372.00	3.409	3.448	-0.039	0.997	2718546	1.10		87.9	5122	
* 62 13C2 PFOA										
415.00 > 370.00	3.418	3.448	-0.030		2989428	1.25			5364	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.409	3.448	-0.039	1.000	32726	0.0141	Target=2.79		1.8	
413.00 > 169.00	3.418	3.448	-0.030	1.003	11318		2.89(1.40-4.19)		9.6	
D 18 13C4 PFOS										
503.00 > 80.00	3.722	3.764	-0.042	1.089	1031981	0.9406		78.7	721	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.722	3.764	-0.042	1.000	26457	0.0252	Target=5.11		7.2	RM
499.00 > 99.00	3.569	3.764	-0.195	0.959	18382		1.44(2.55-7.66)		9.0	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.741	3.783	-0.042	1.000	8164	0.003759	Target=8.55		1.2	M
463.00 > 169.00	3.770	3.783	-0.013	1.008	899		9.08(4.28-12.83)		1.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.741	3.783	-0.042	1.095	2616851	1.09		87.0	2905	
D 23 13C2 PFDA										
515.00 > 470.00	4.038	4.081	-0.043	1.182	2646807	1.08		86.4	3257	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.038	4.081	-0.043	1.000	5506	0.002398	Target=10.26		1.0	M
513.00 > 169.00	4.029	4.081	-0.052	0.998	599		9.19(5.13-15.38)		1.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.048	4.093	-0.045	1.184	405839	1.22		102	356	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.038	4.093	-0.055	0.998	1323	0.002414			9.0	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.110	4.150	-0.040	1.000	1402	0.000970			4.9	M
D 21 13C8 FOSA										
506.00 > 78.00	4.110	4.150	-0.040	1.203	1730060	0.8609		68.9	2171	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.179	4.228	-0.049	1.223	483042	0.9678		77.4	1414	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.190	4.228	-0.038	1.003	517	-0.0101			1.8	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.303	4.353	-0.050	1.259	2548265	1.14		90.8	5026	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.303	4.353	-0.050	1.000	3288	0.001600	Target=9.88		1.0	M
563.00 > 169.00	4.303	4.353	-0.050	1.000	453		7.26(4.94-14.82)		3.4	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	4.393	4.365	0.028	1.018	724	0.001901			3.3	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.314	4.365	-0.051	1.262	531734	1.08		86.6	874	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.538	4.591	-0.053	1.000	2945	0.001348	Target=7.77		0.8	M
613.00 > 169.00	4.538	4.591	-0.053	1.000	464		6.35(3.89-11.66)		5.0	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.538	4.591	-0.053	1.328	2577417	1.13		90.2	2439	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.745	4.804	-0.059	1.046	1775	0.000850	Target=5.21		0.2	
663.00 > 169.00	4.773	4.804	-0.031	1.052	520		3.41(2.60-7.81)		2.9	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.939	5.012	-0.073	0.998	528	0.001995	Target=0.89		5.5	M
713.00 > 219.00	4.939	5.012	-0.073	0.998	607		0.87(0.44-1.33)		9.7	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.949	5.012	-0.063	1.448	2416934	1.22		97.8	4763	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d

Injection Date: 30-Dec-2022 15:03:55

Instrument ID: LC812

Lims ID: 460-271837-A-2-A

Lab Sample ID: 200-271837-2

Client ID: BCS-21-22_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

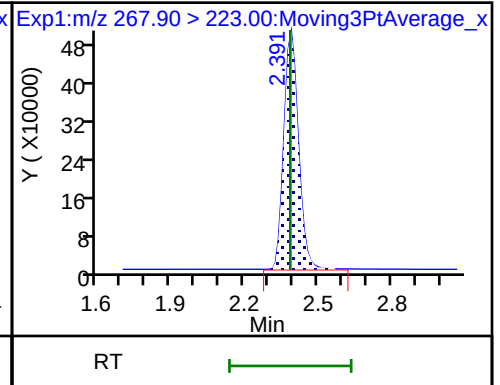
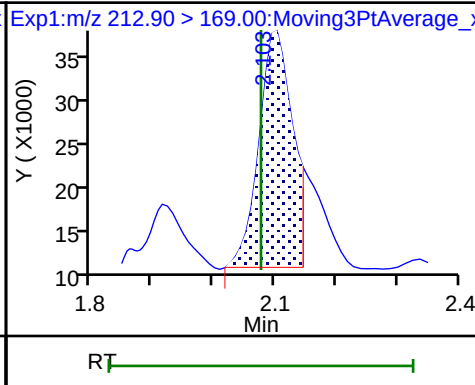
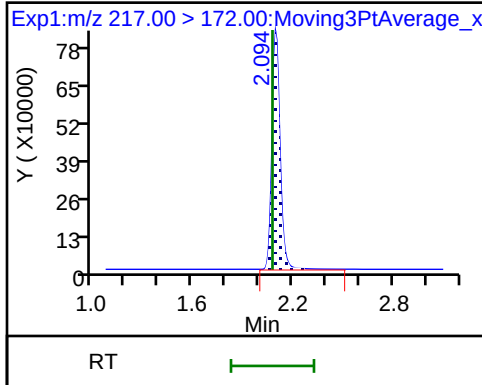
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

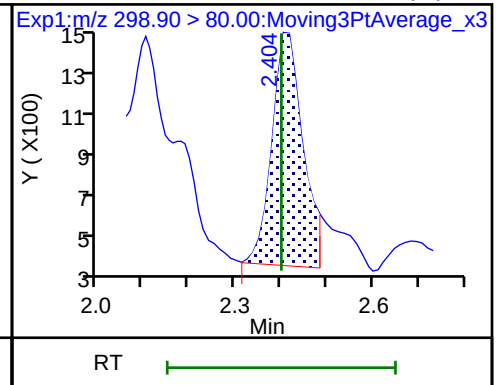
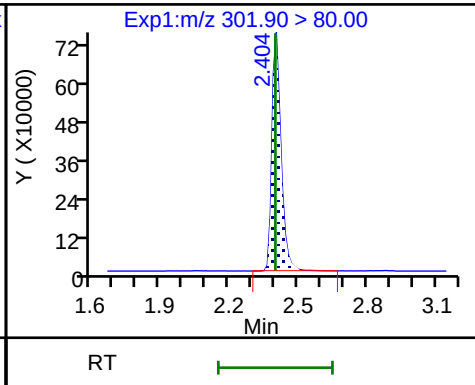
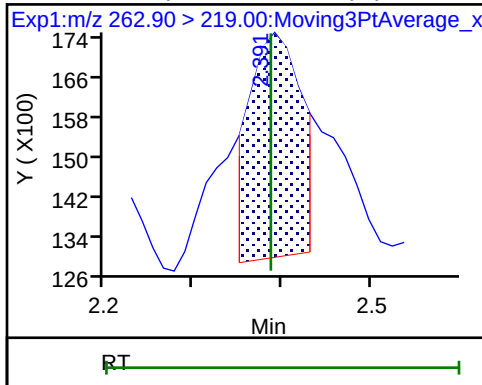
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

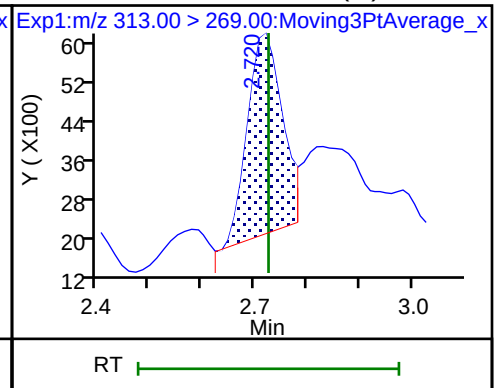
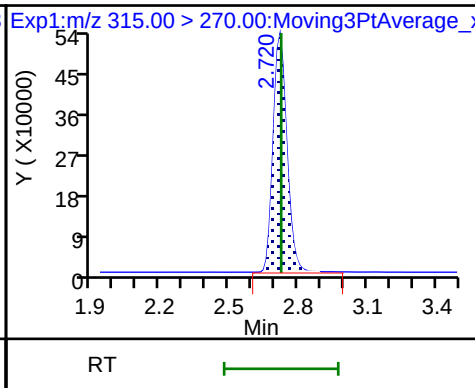
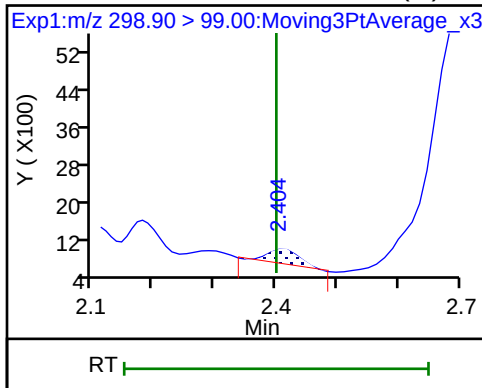
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

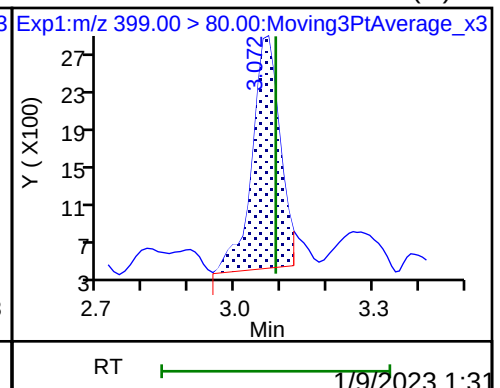
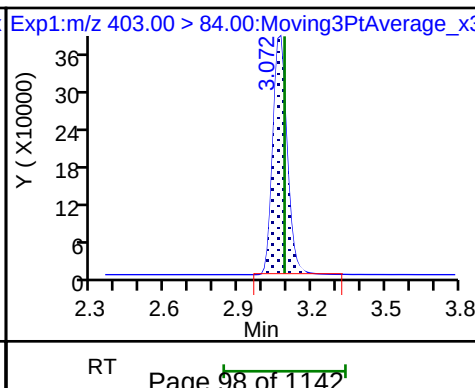
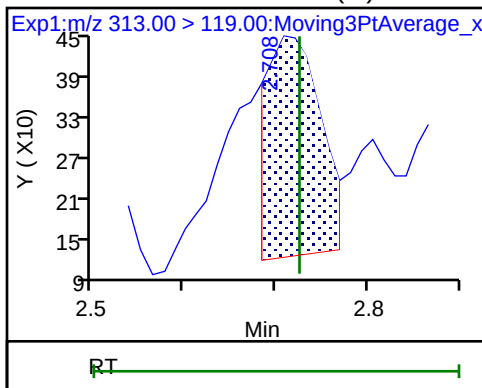
6 Perfluorohexanoic acid (M)

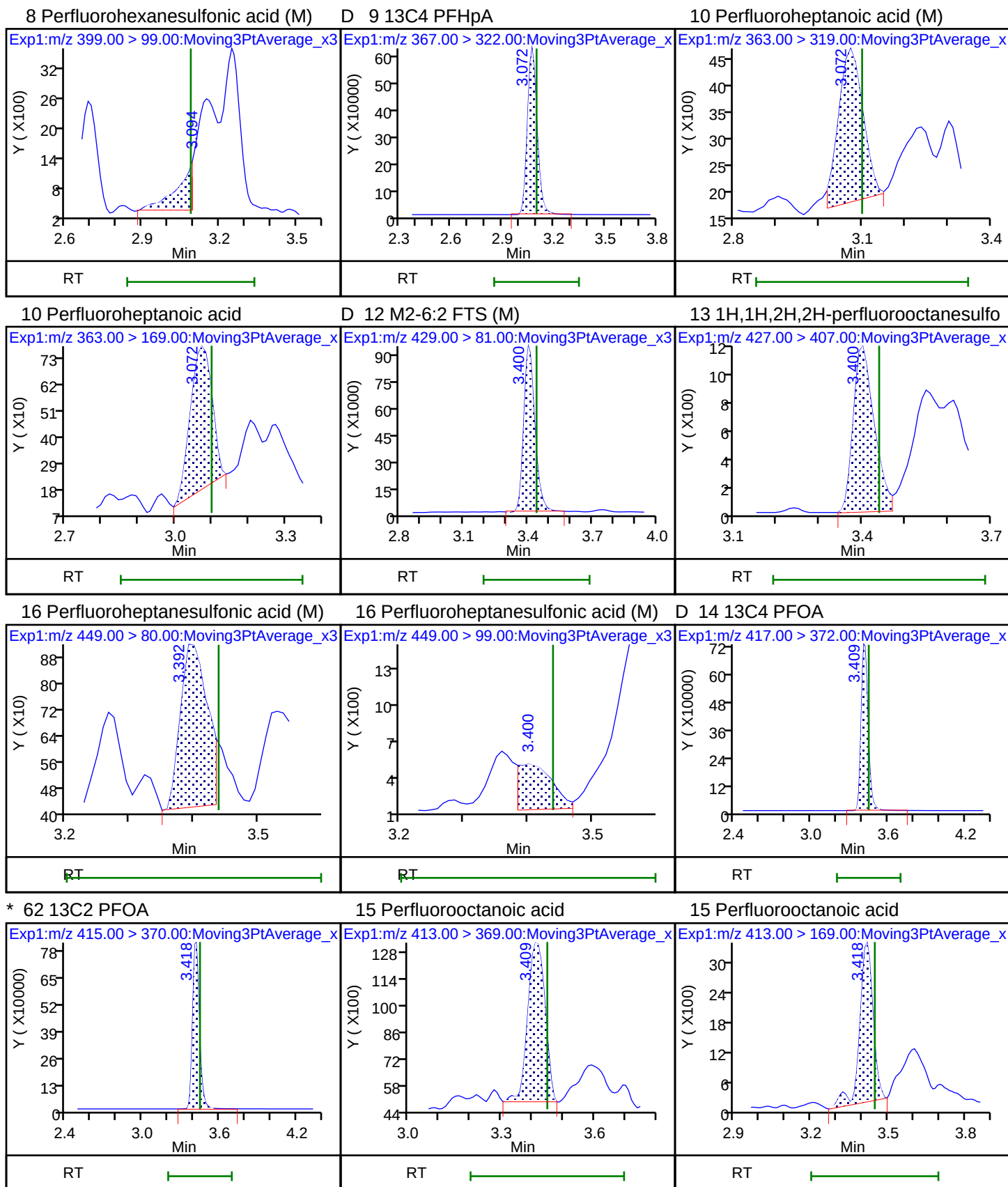


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

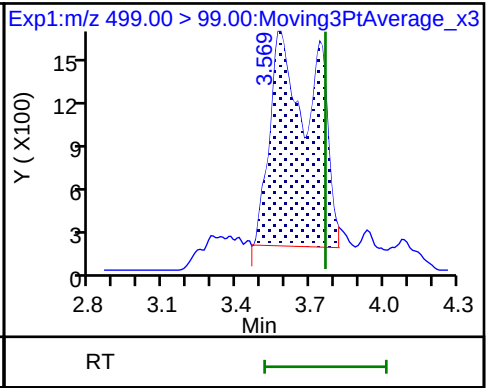
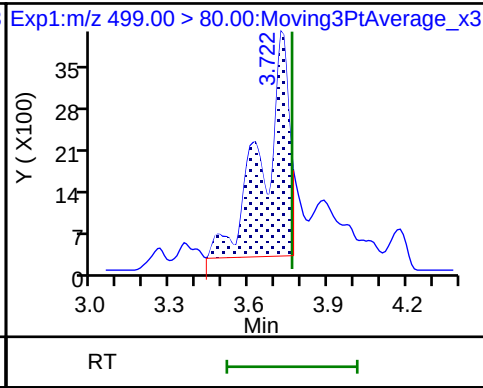
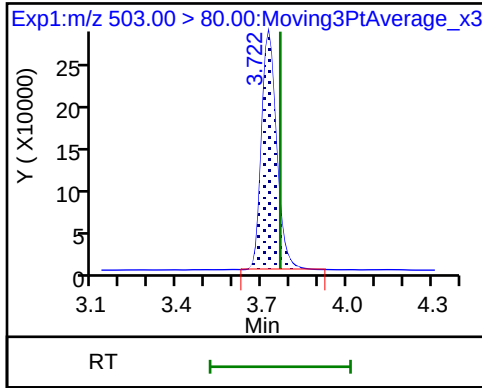




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

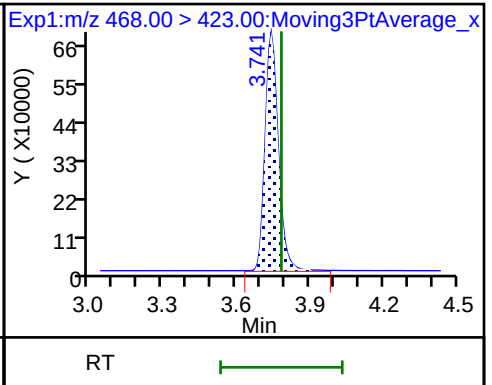
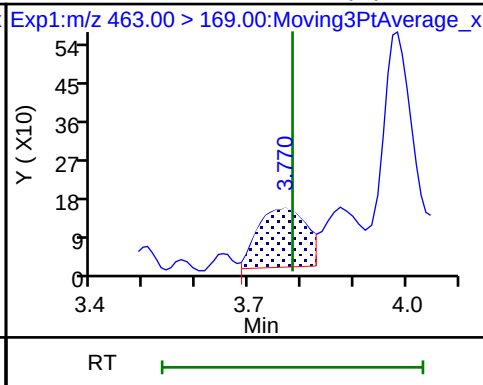
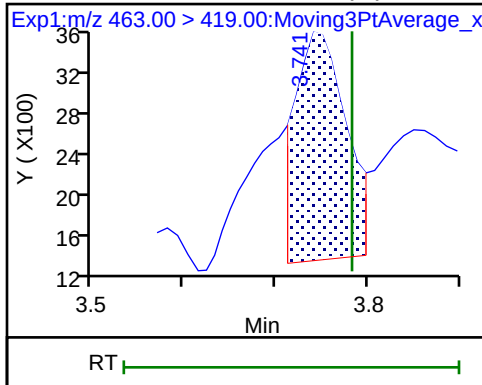
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

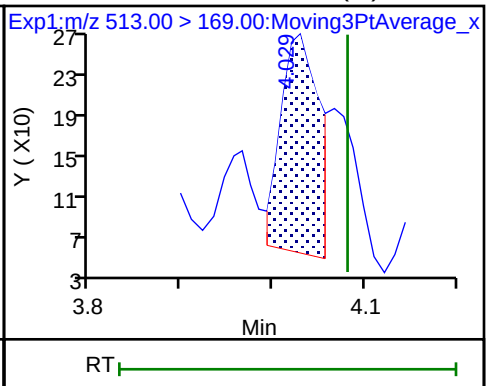
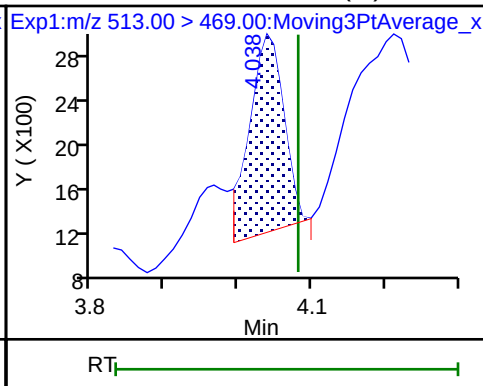
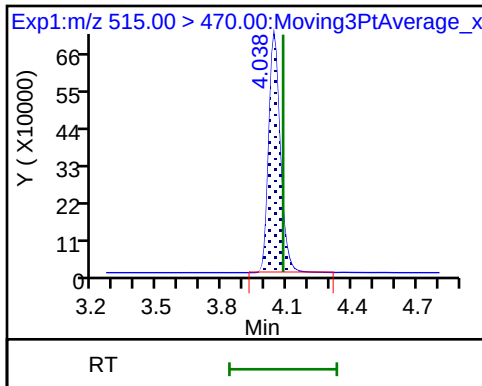
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

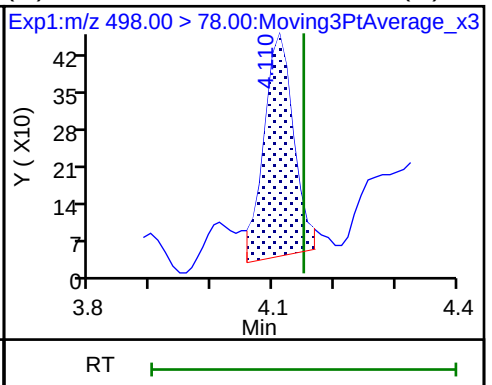
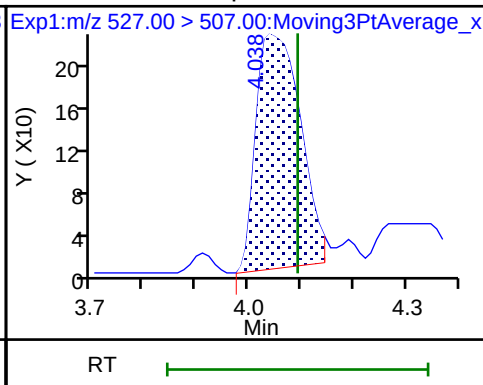
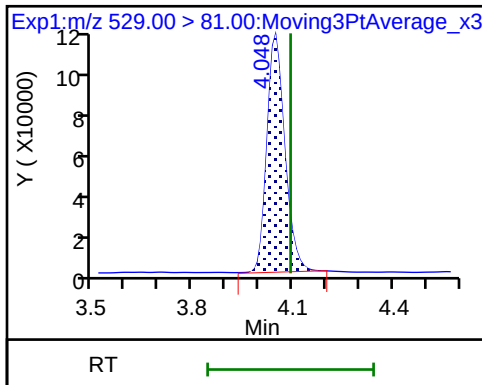
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

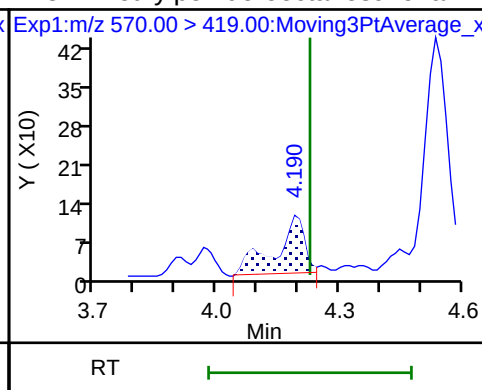
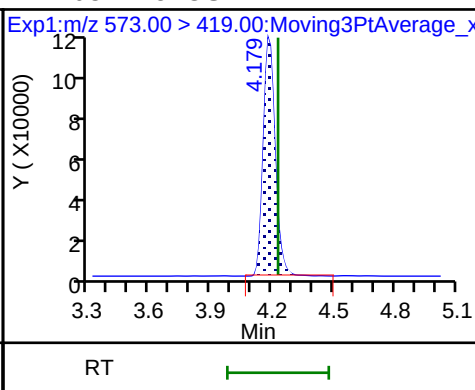
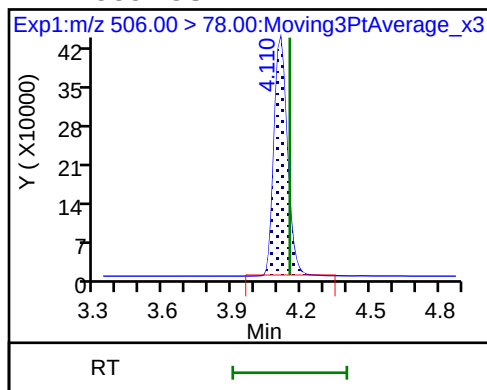
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

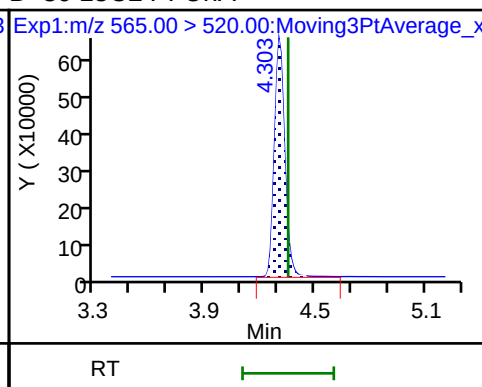
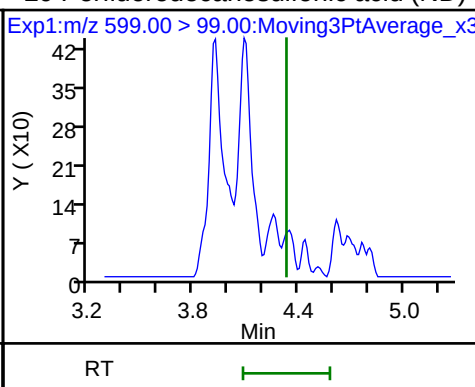
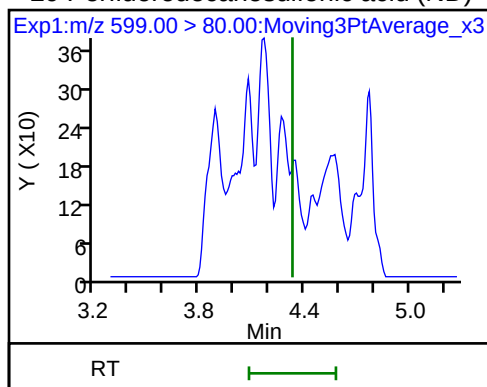
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

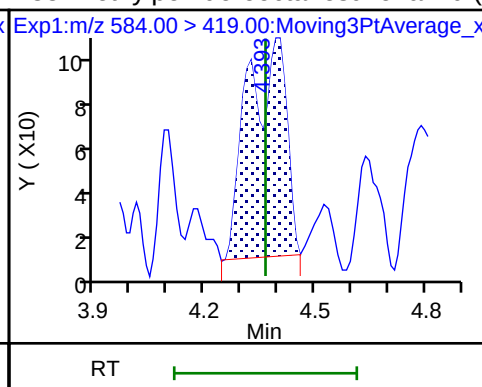
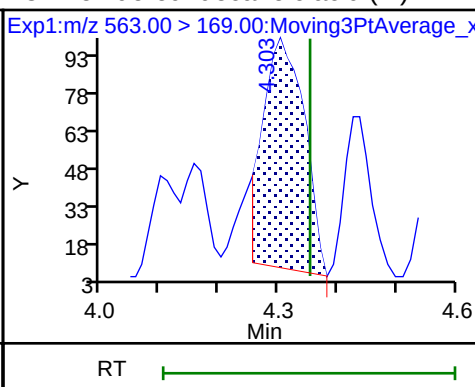
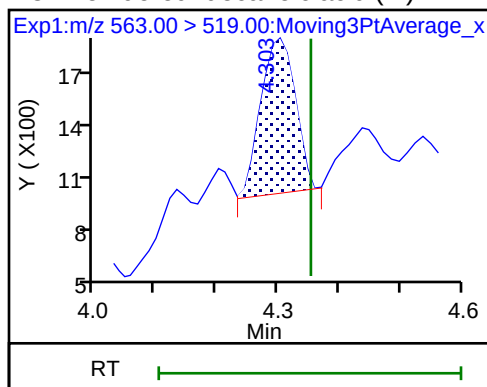
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

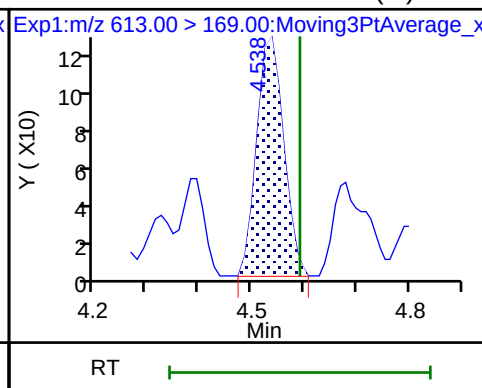
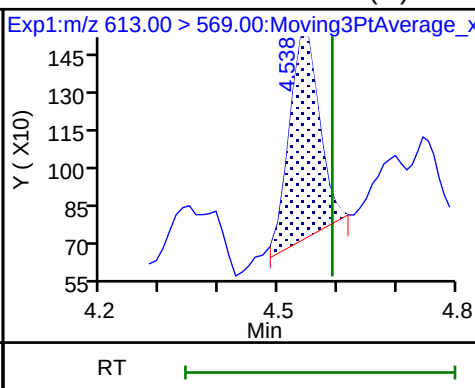
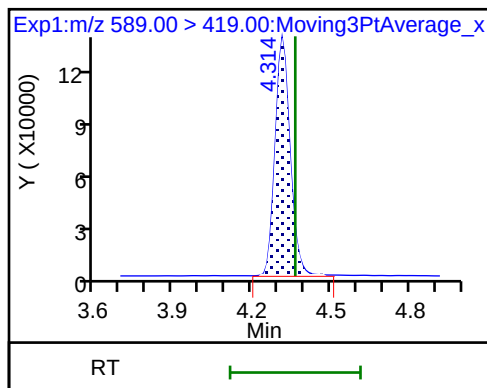
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

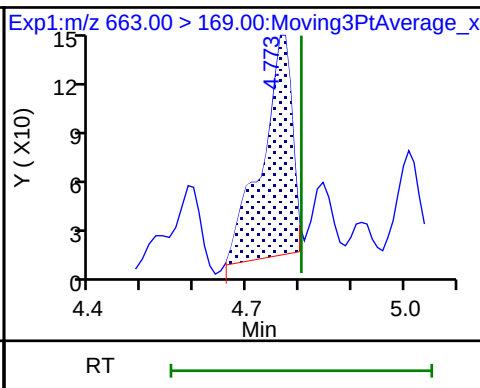
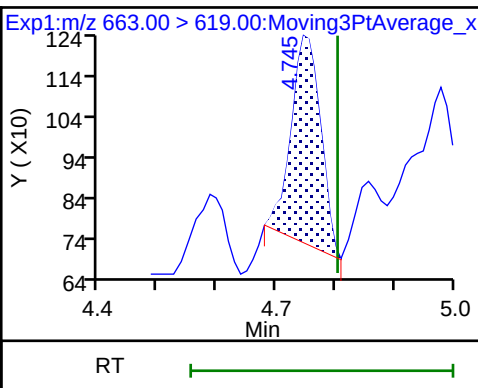
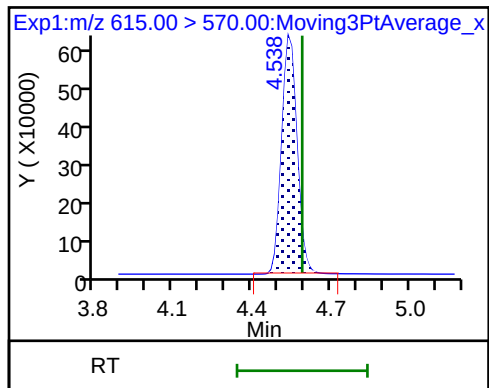
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid

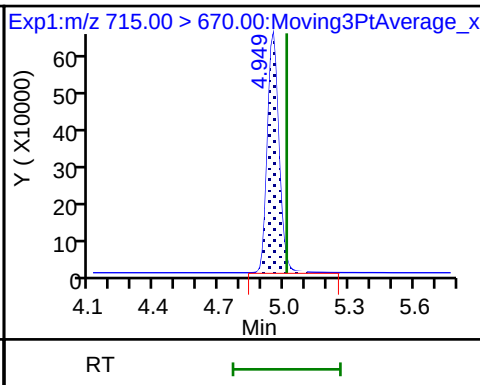
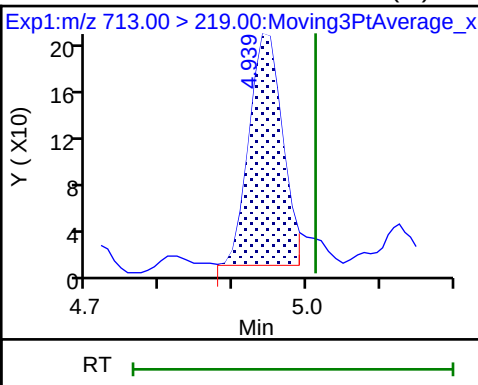
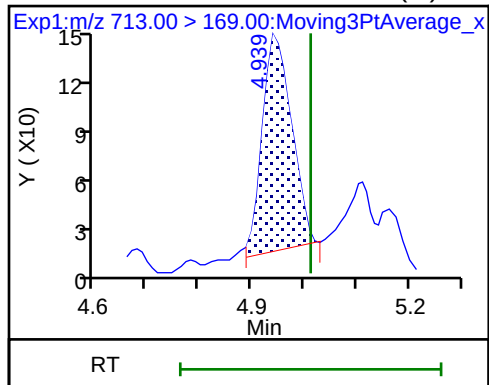
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

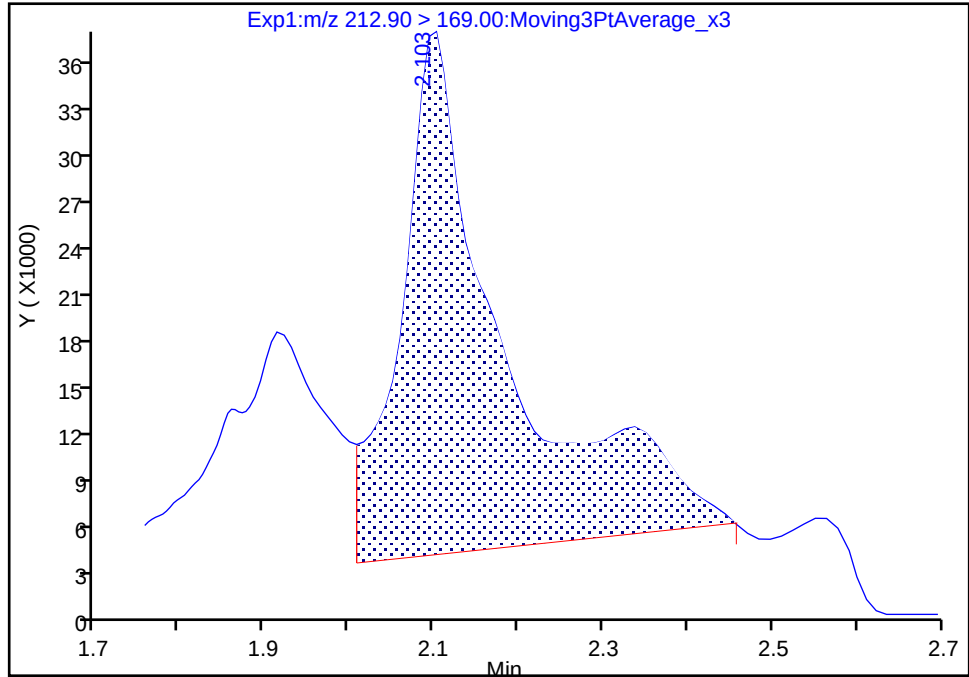
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

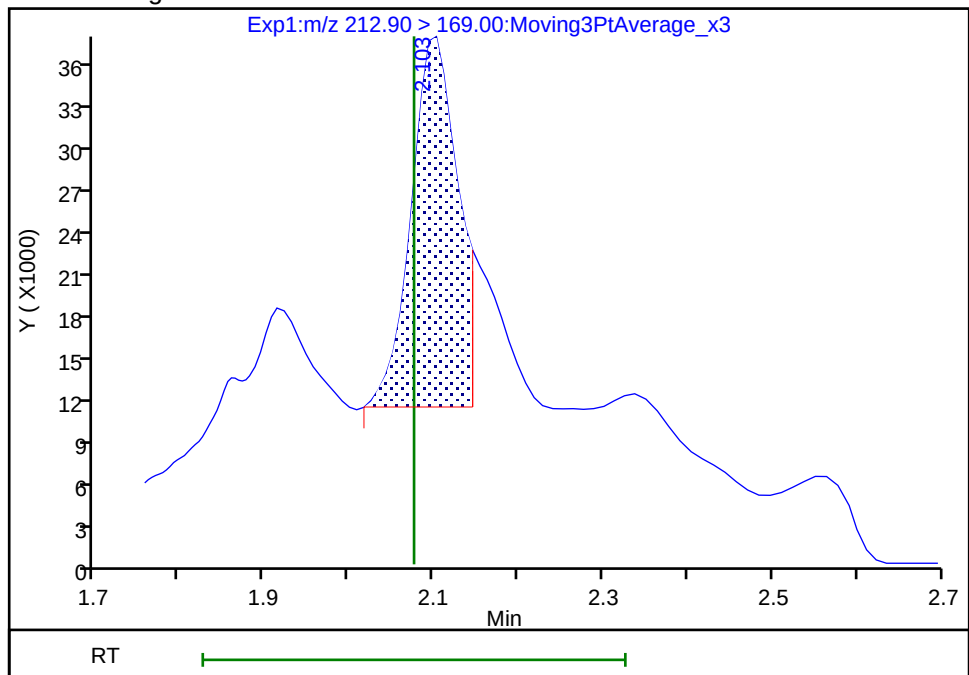
RT: 2.10
Area: 285664
Amount: 0.123626
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 100192
Amount: 0.043360
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:14:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

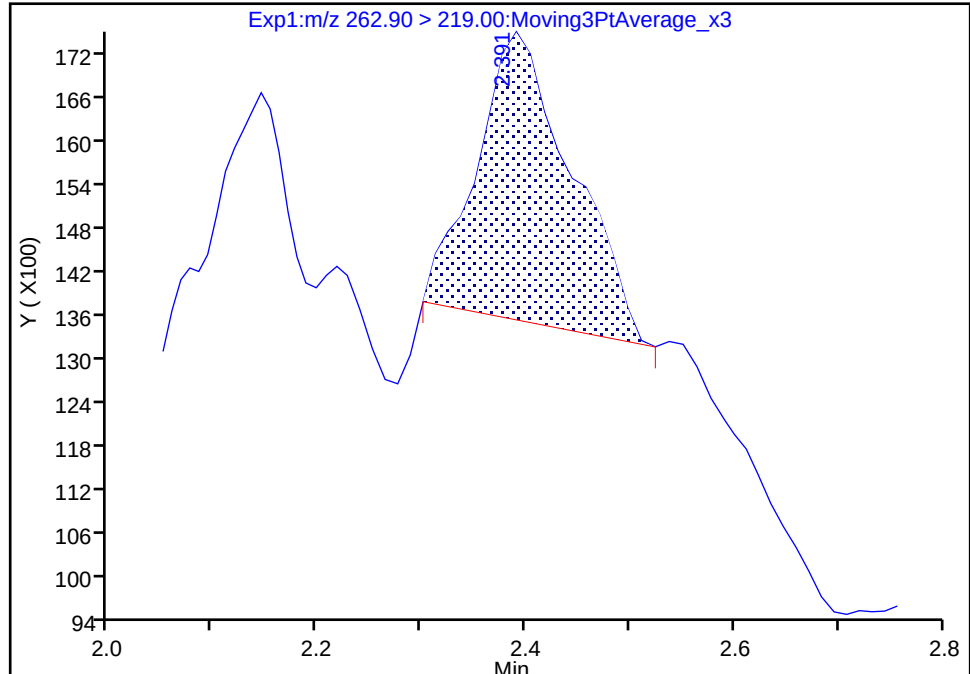
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

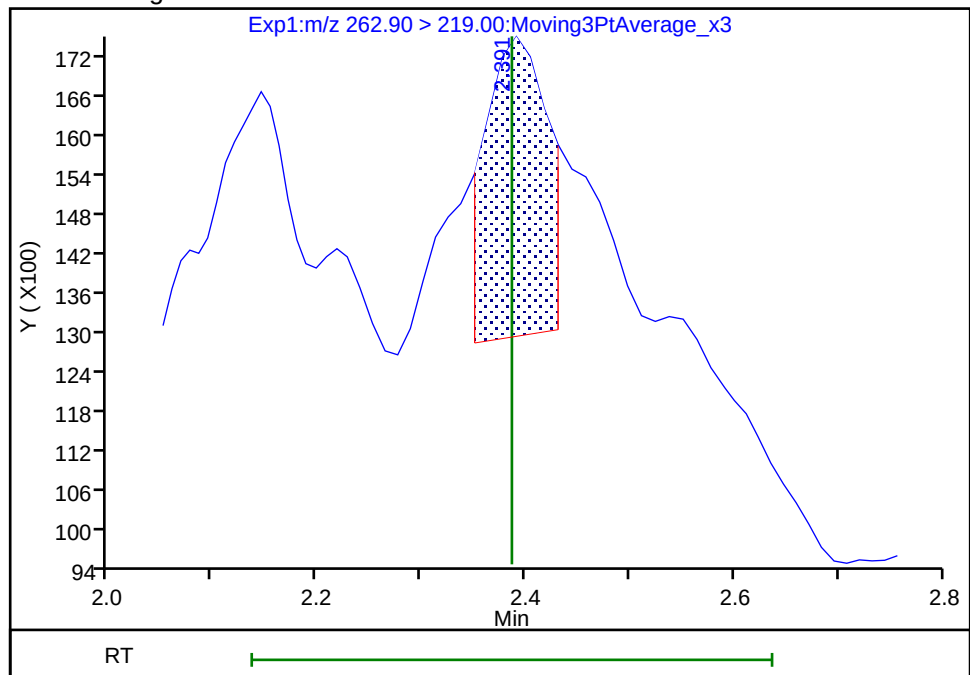
RT: 2.39
Area: 25080
Amount: 0.013765
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 18013
Amount: 0.009887
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:14:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

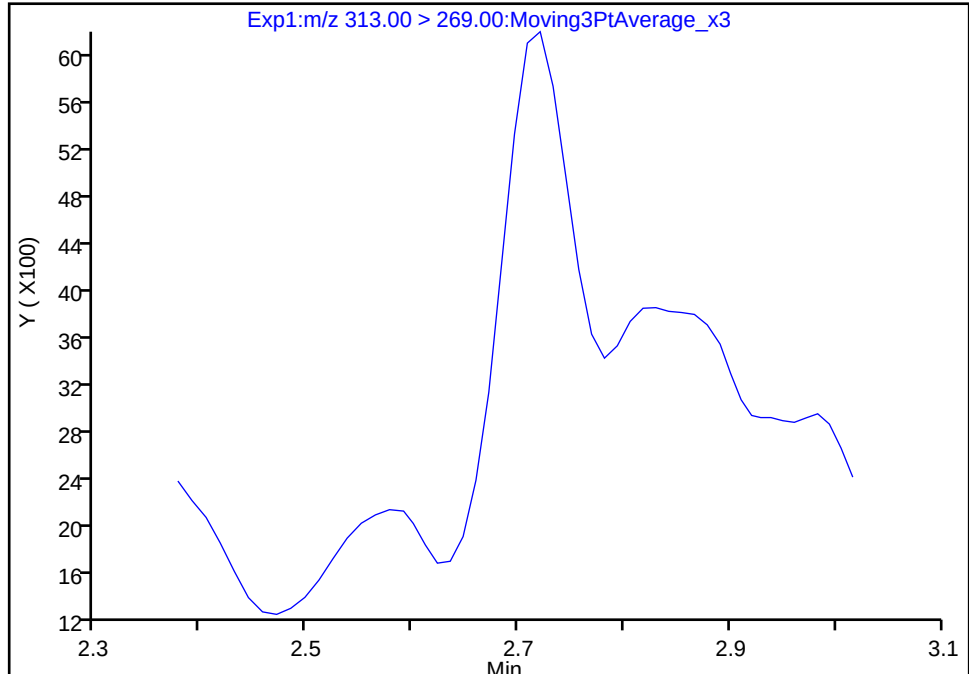
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

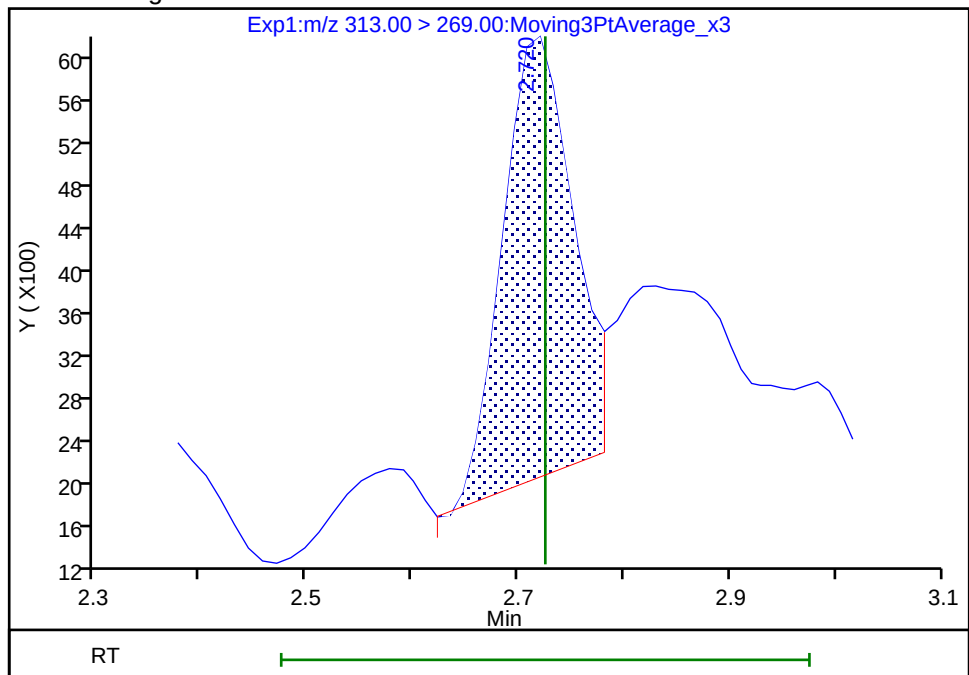
Signal: 1

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.72
Area: 18938
Amount: 0.009810
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:14:58
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

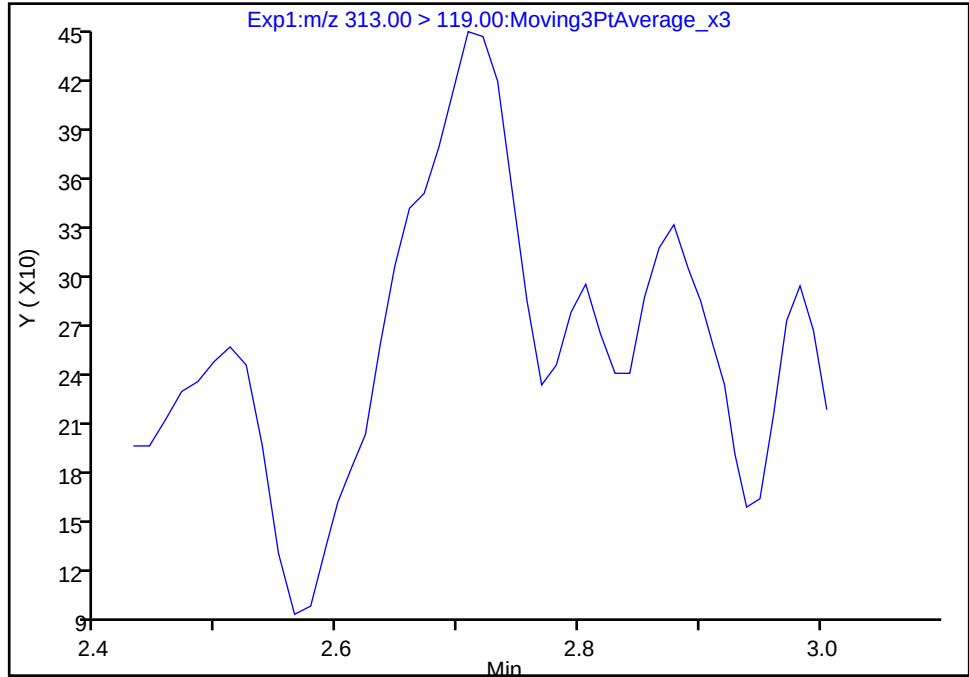
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

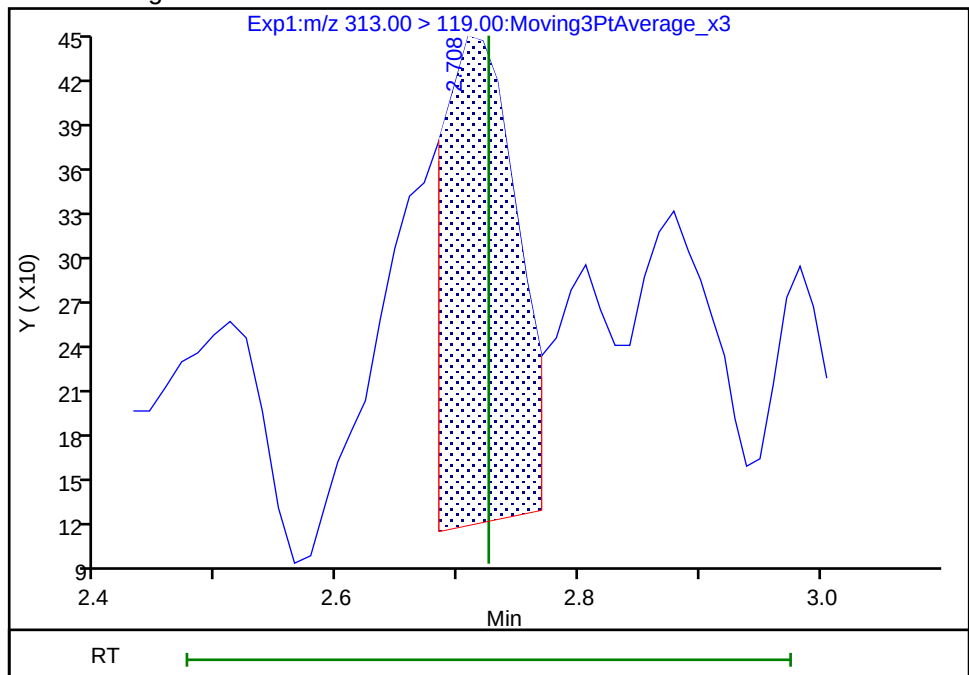
Signal: 2

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.71
Area: 1314
Amount: 0.009810
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:15:03

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

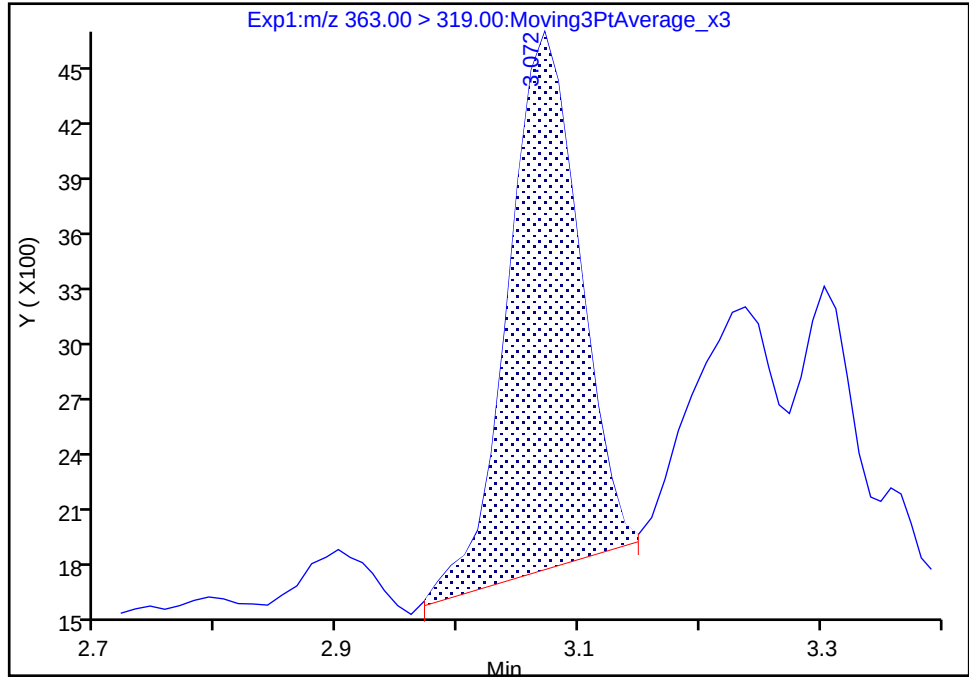
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

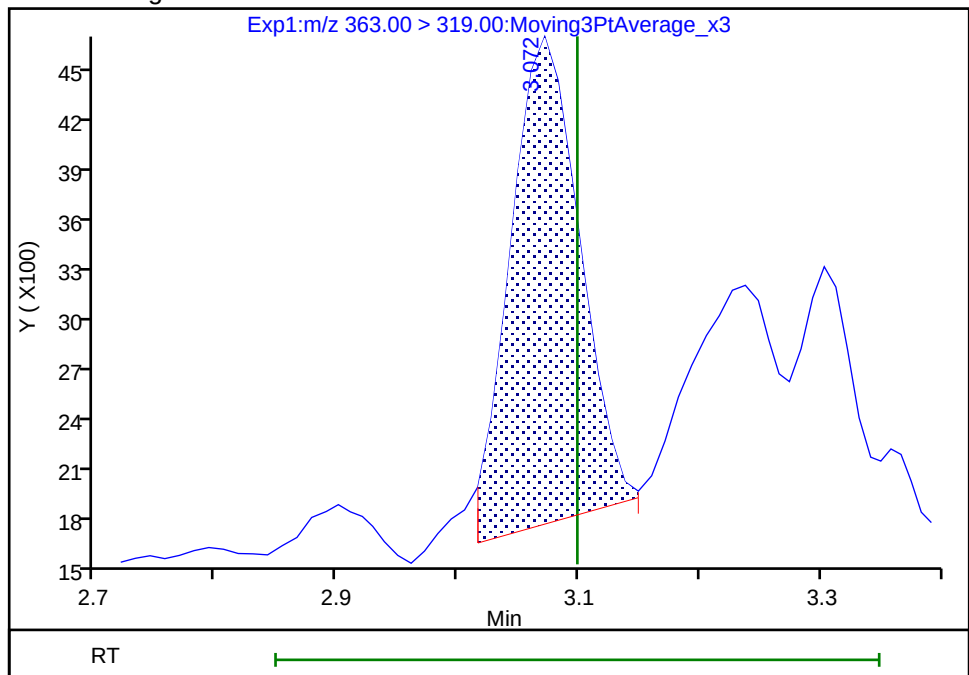
RT: 3.07
Area: 11774
Amount: 0.005482
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 11354
Amount: 0.005286
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

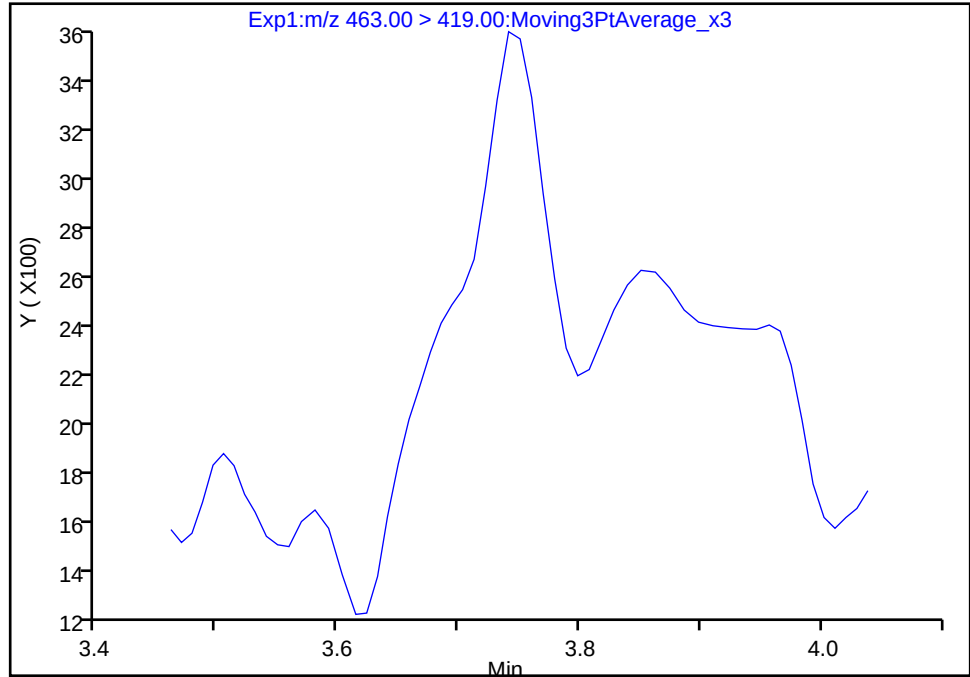
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

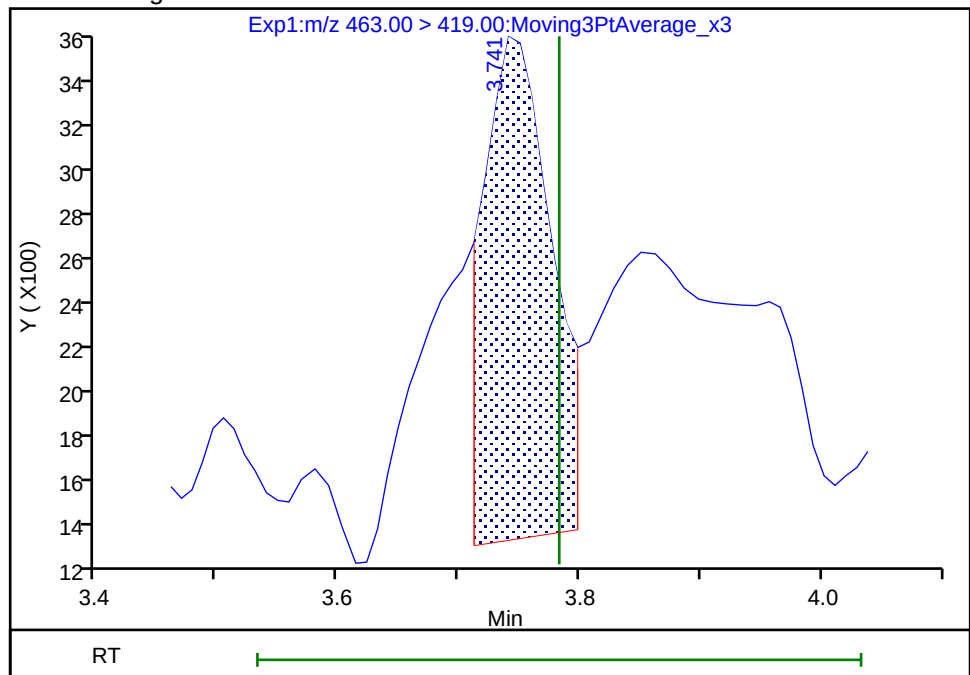
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:16:57

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

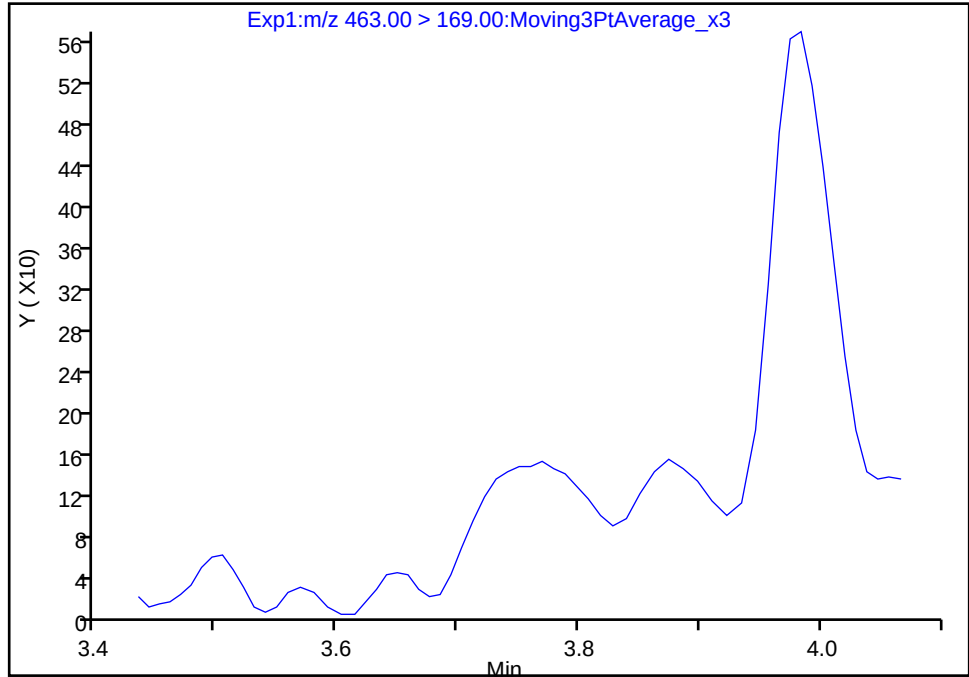
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

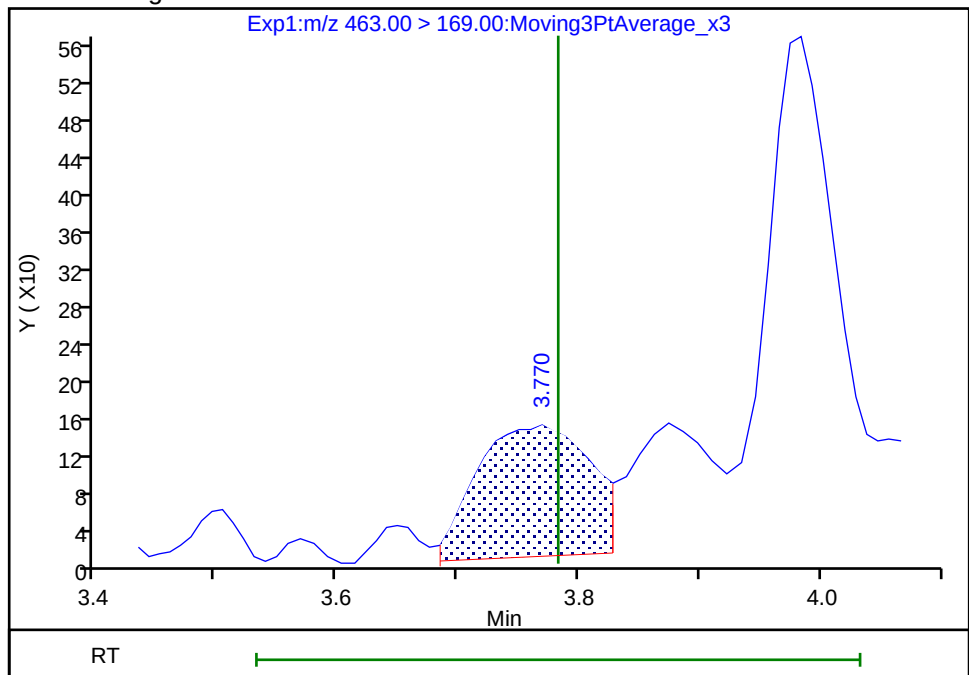
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 899
Amount: 0.003759
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:17:02

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

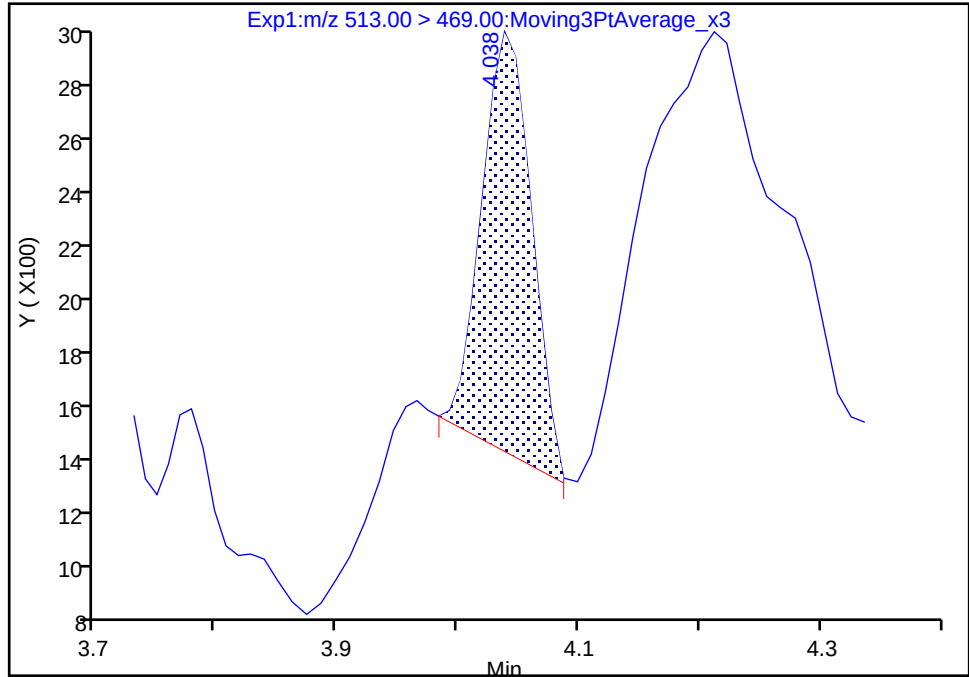
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

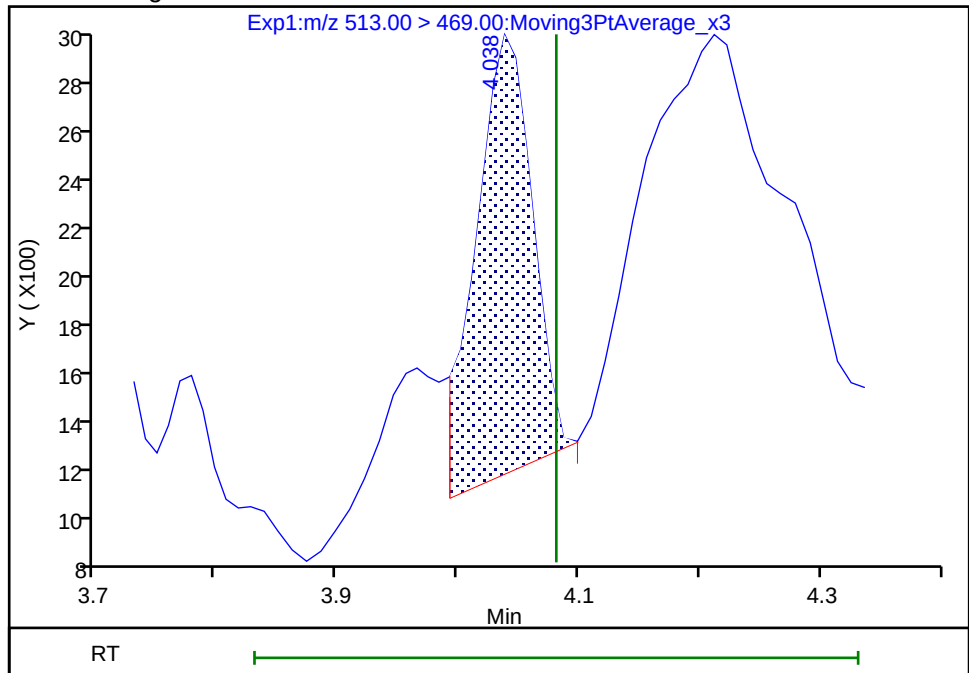
RT: 4.04
Area: 4229
Amount: 0.001842
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 5506
Amount: 0.002398
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:17:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

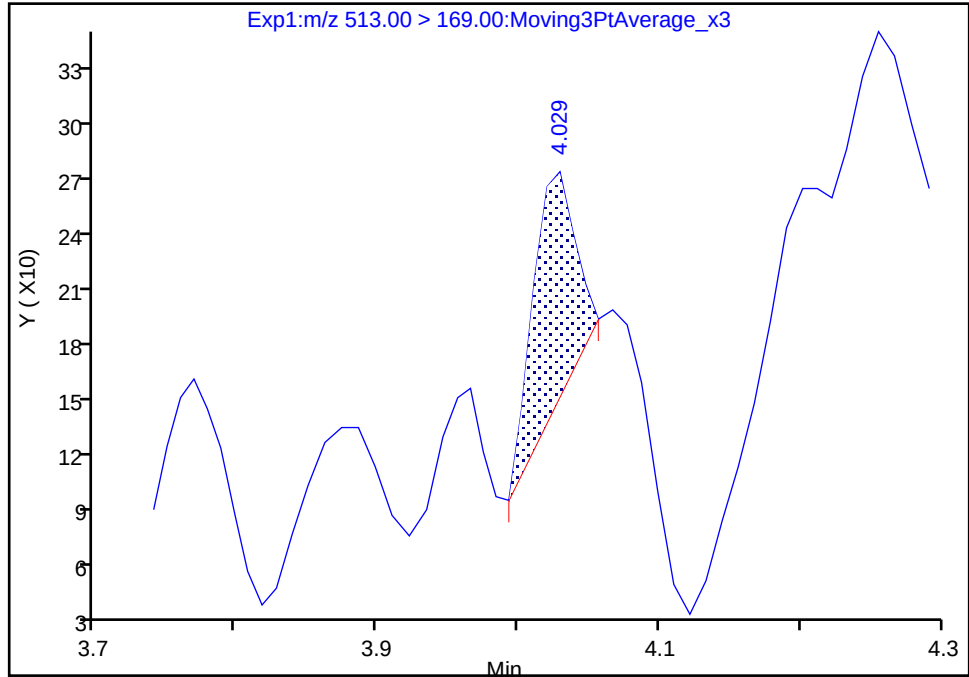
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

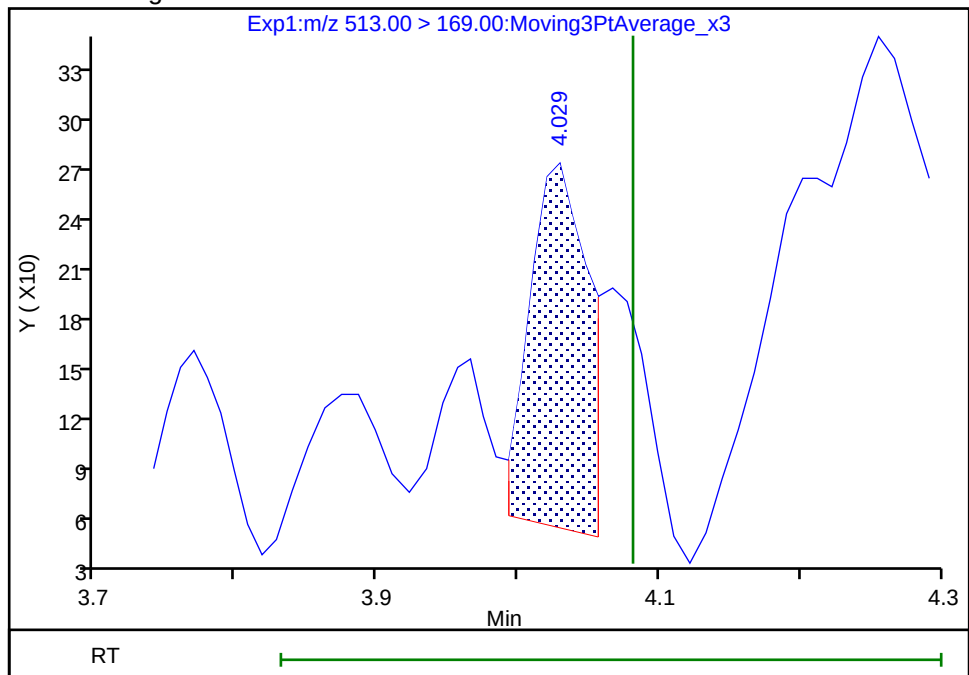
RT: 4.03
Area: 261
Amount: 0.001842
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 599
Amount: 0.002398
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:17:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

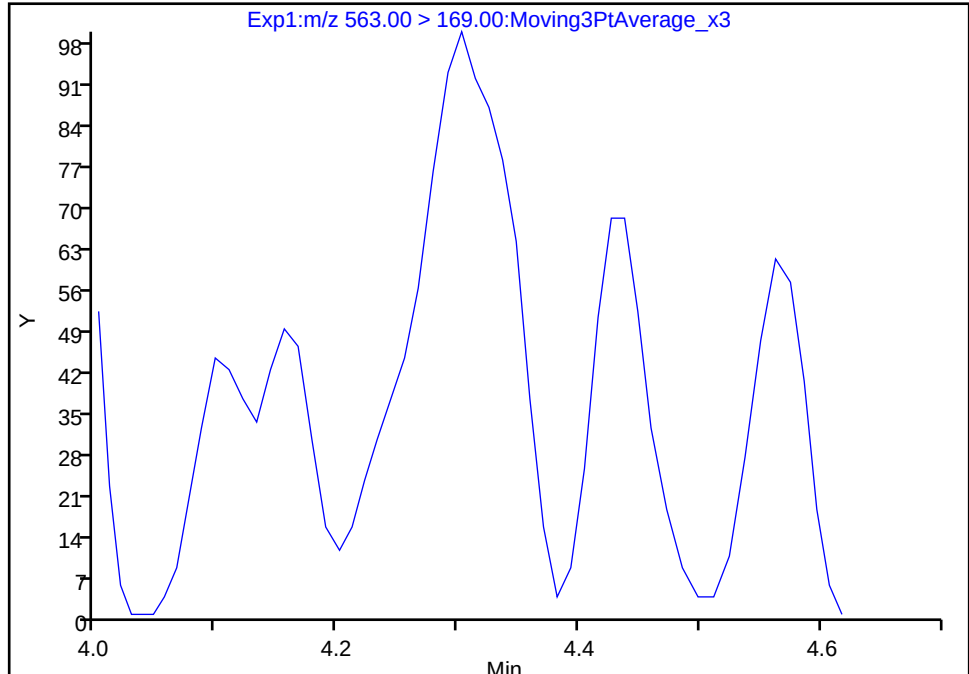
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

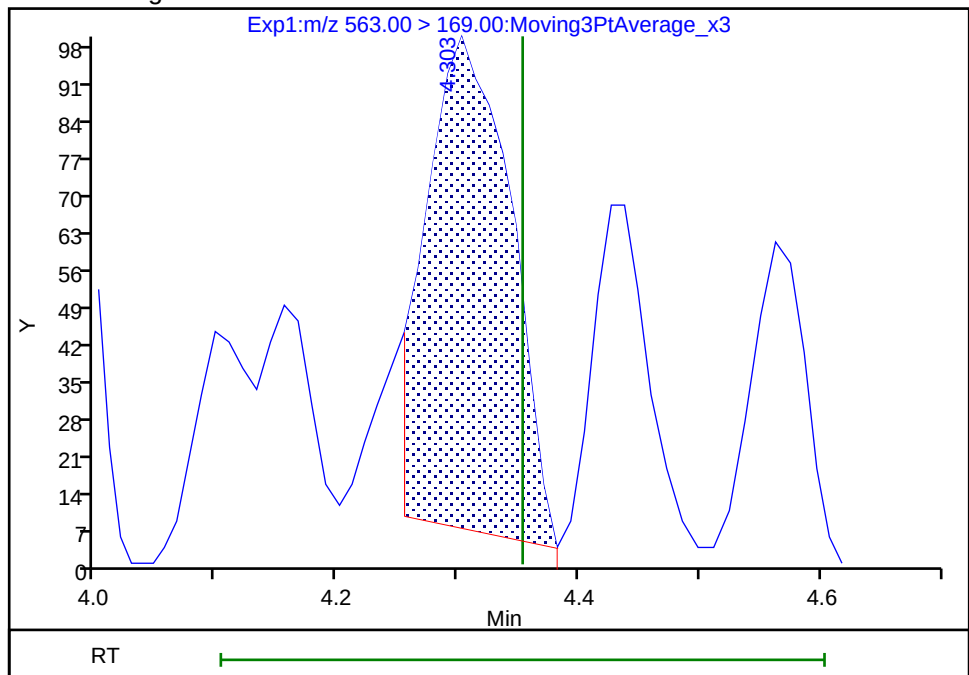
Signal: 2

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.30
Area: 453
Amount: 0.001600
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:18:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

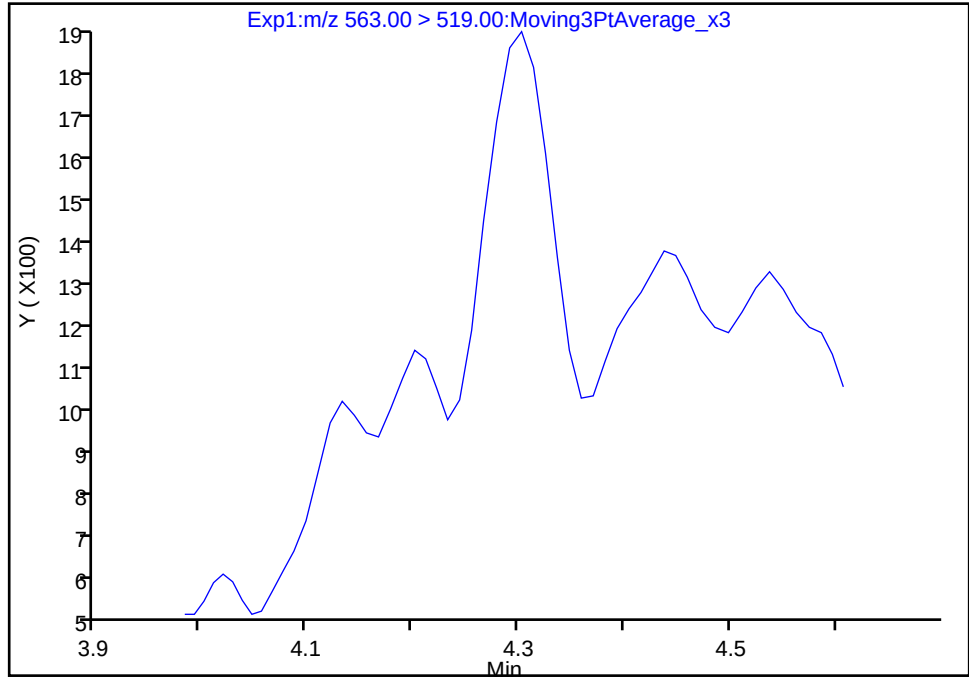
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

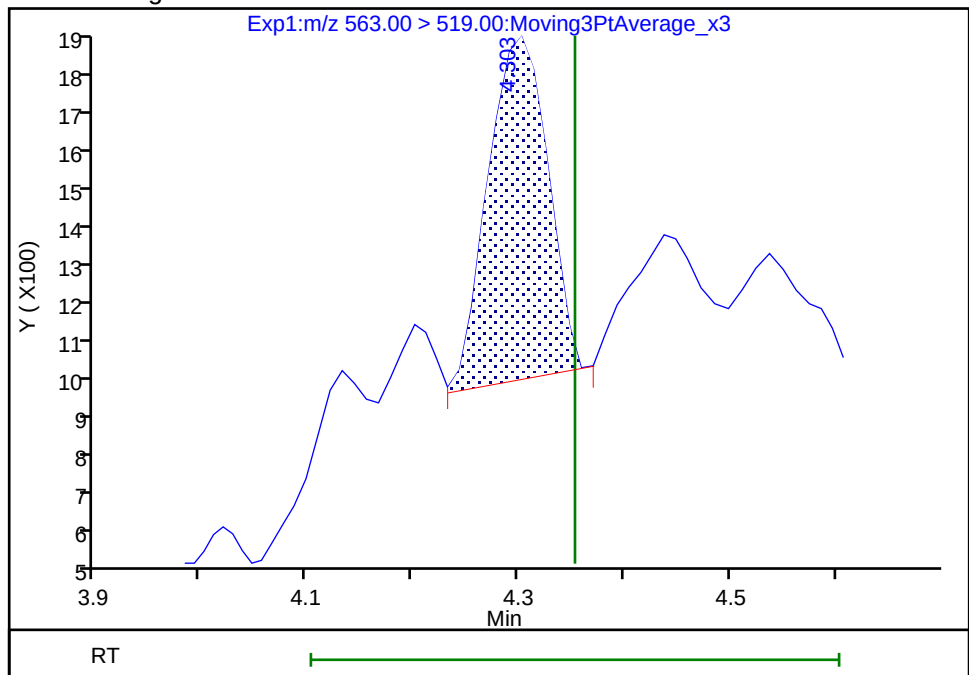
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:18:42

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

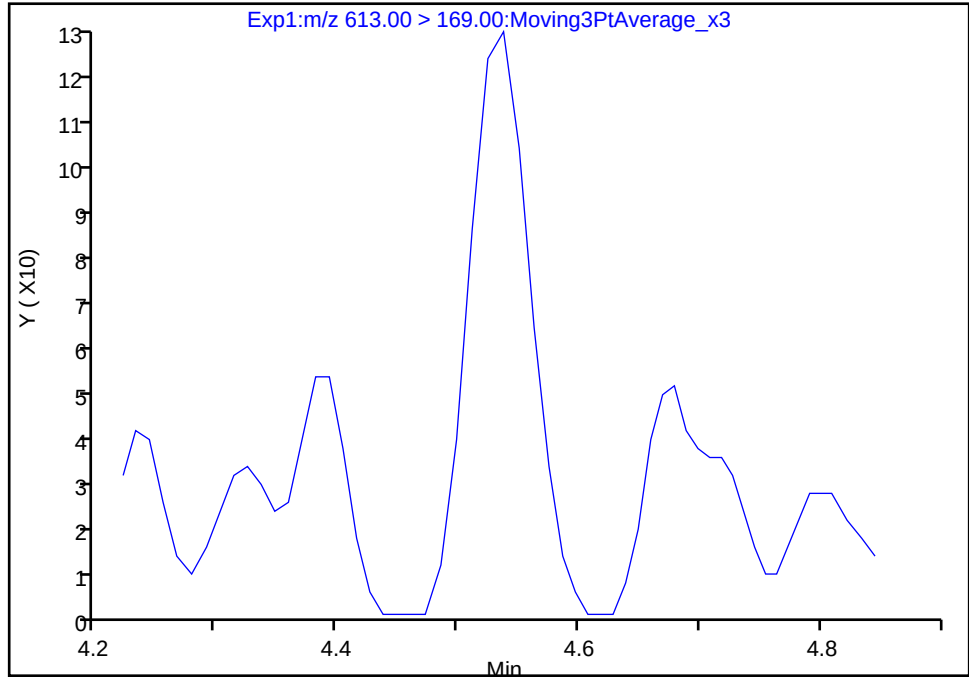
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

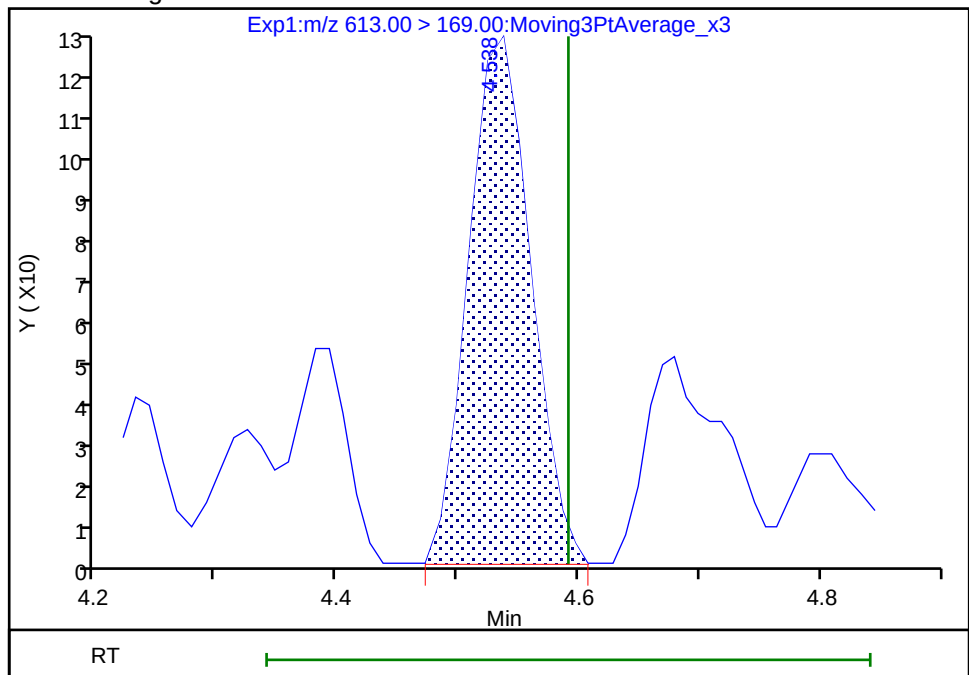
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.54
Area: 464
Amount: 0.001348
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:19:05
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

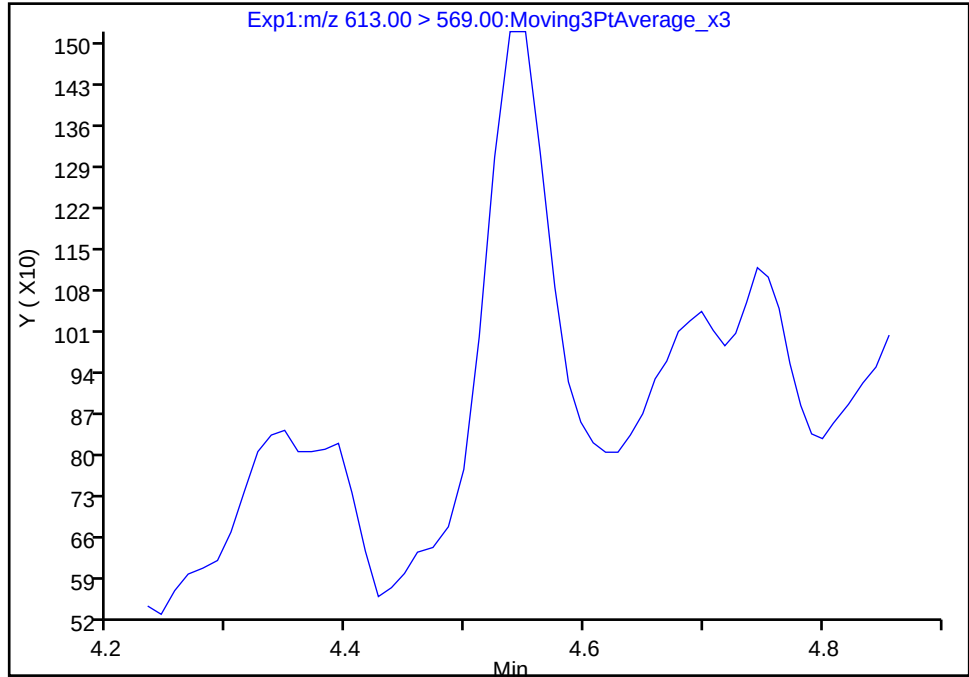
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

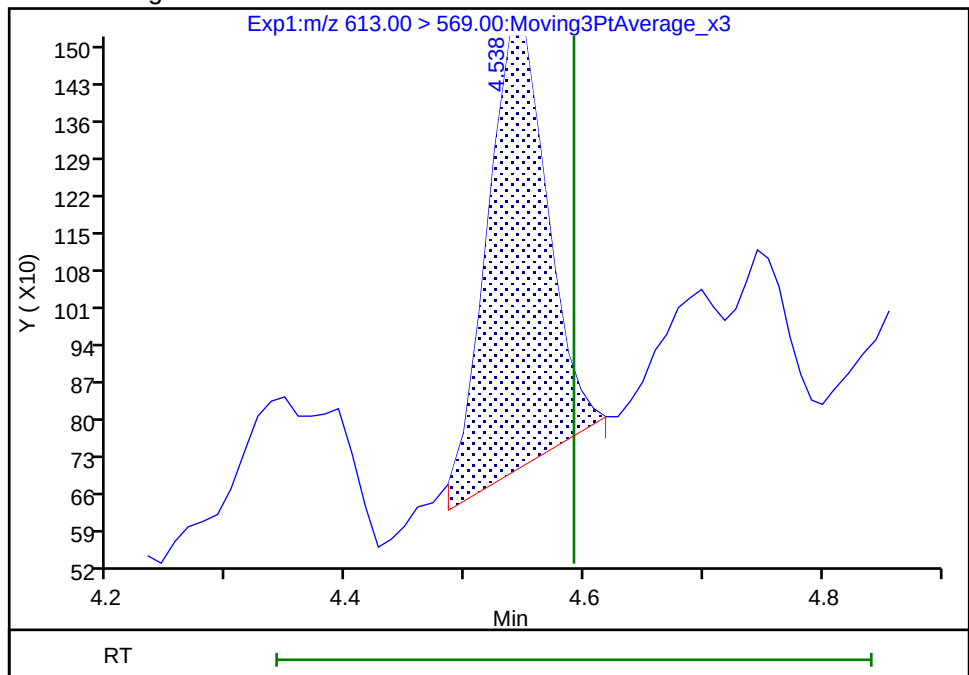
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.54
Area: 2945
Amount: 0.001348
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:19:08

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

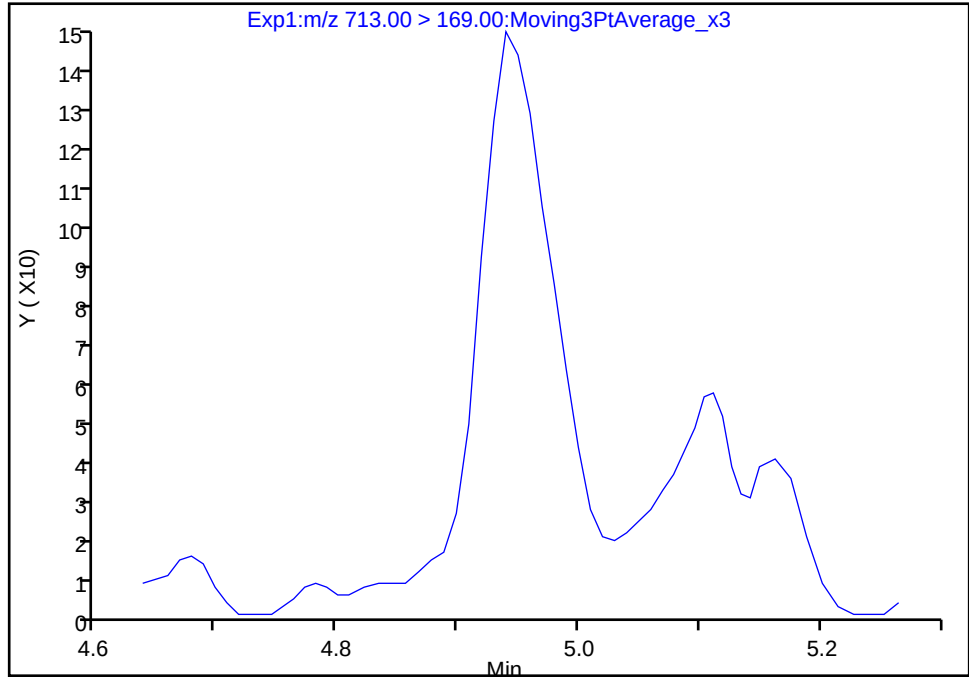
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

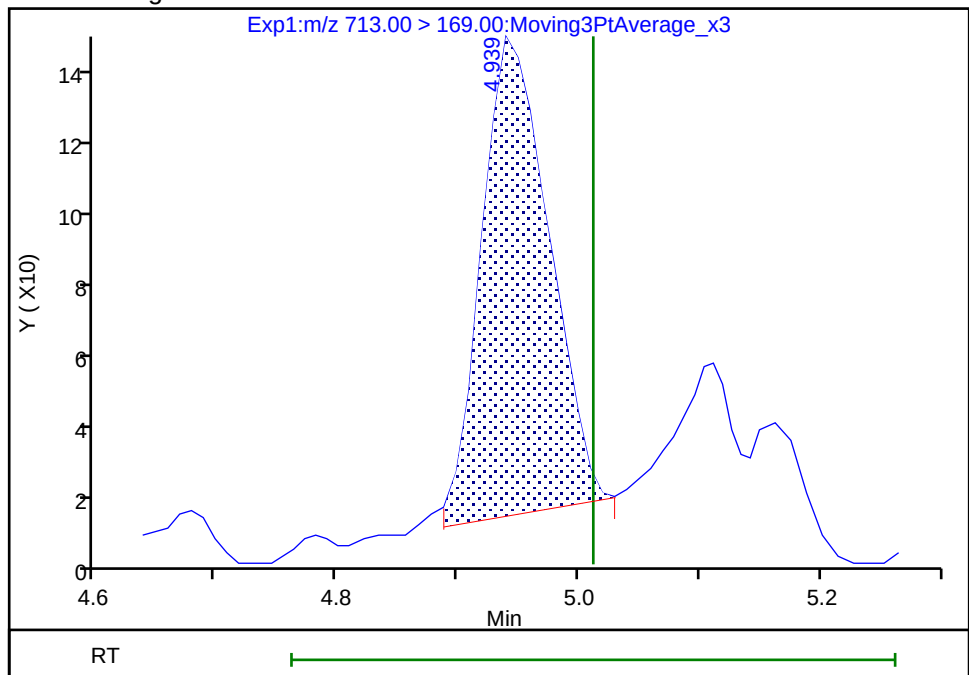
Signal: 1

Not Detected
Expected RT: 5.01

Processing Integration Results



Manual Integration Results



RT: 4.94
Area: 528
Amount: 0.001995
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:19:28
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

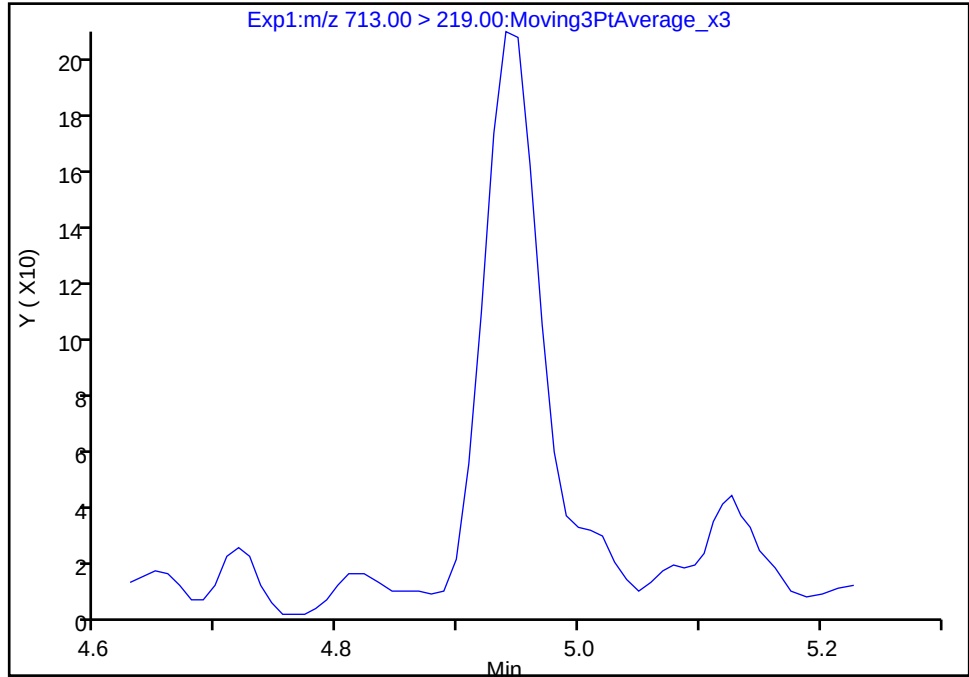
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

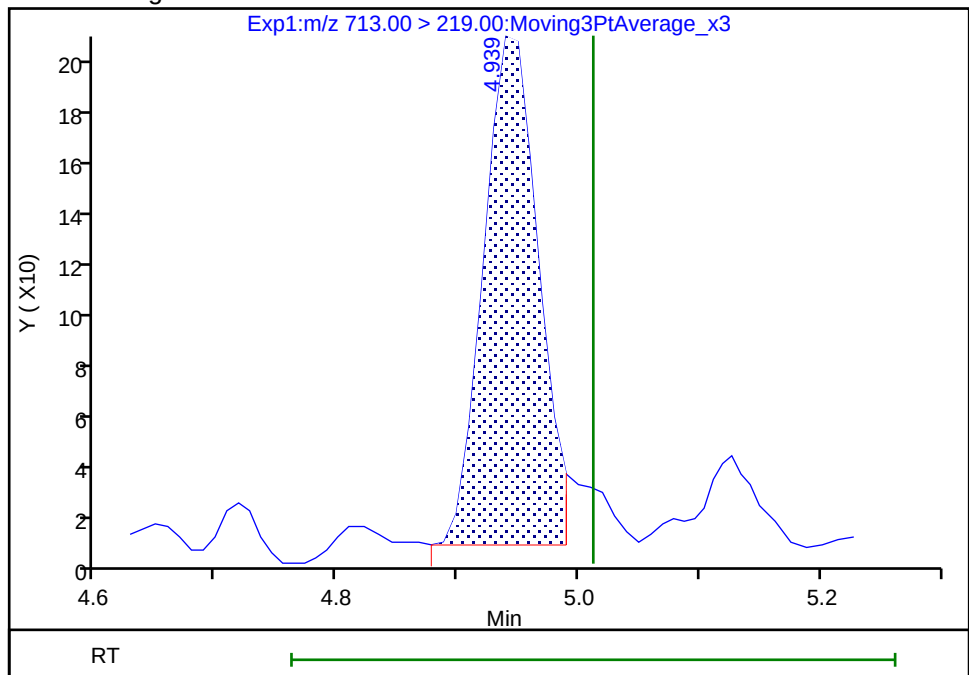
Not Detected
Expected RT: 5.01

Processing Integration Results



Manual Integration Results

RT: 4.94
Area: 607
Amount: 0.001995
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:19:30

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

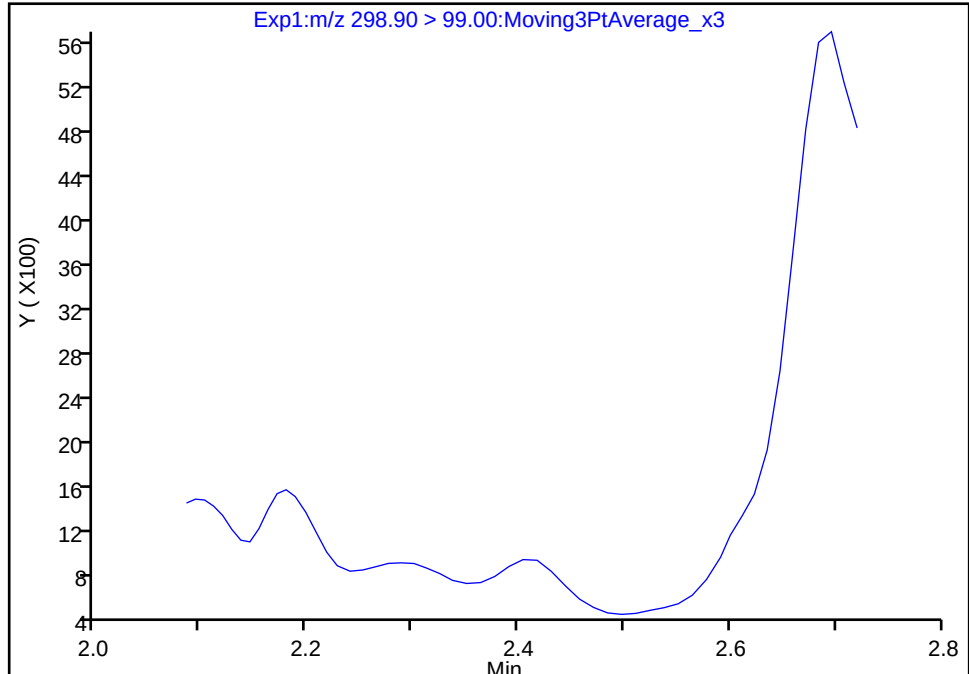
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

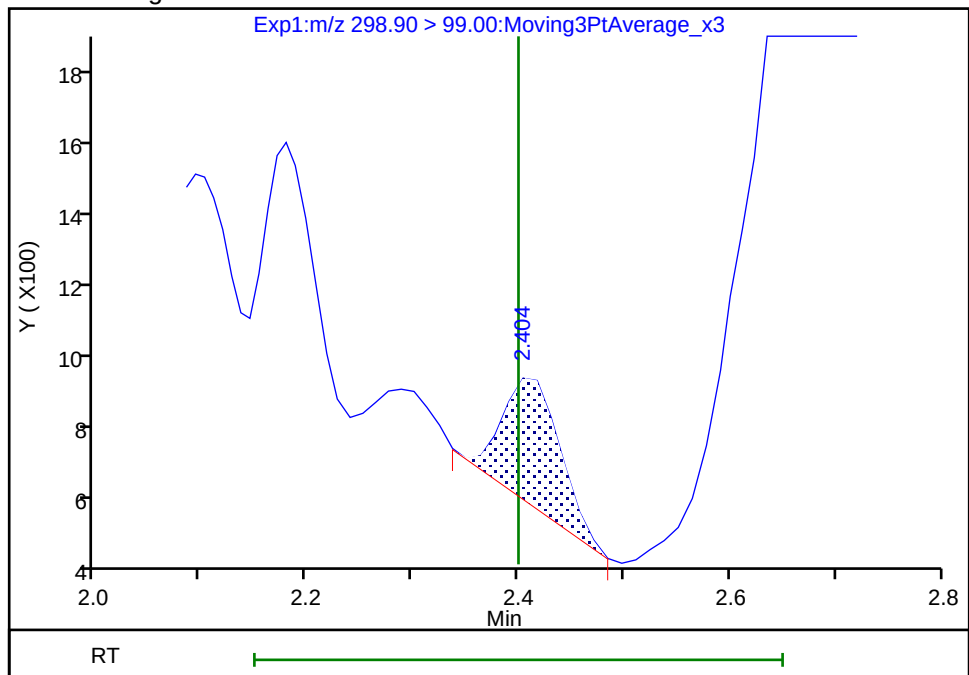
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1248
Amount: 0.002435
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:14:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

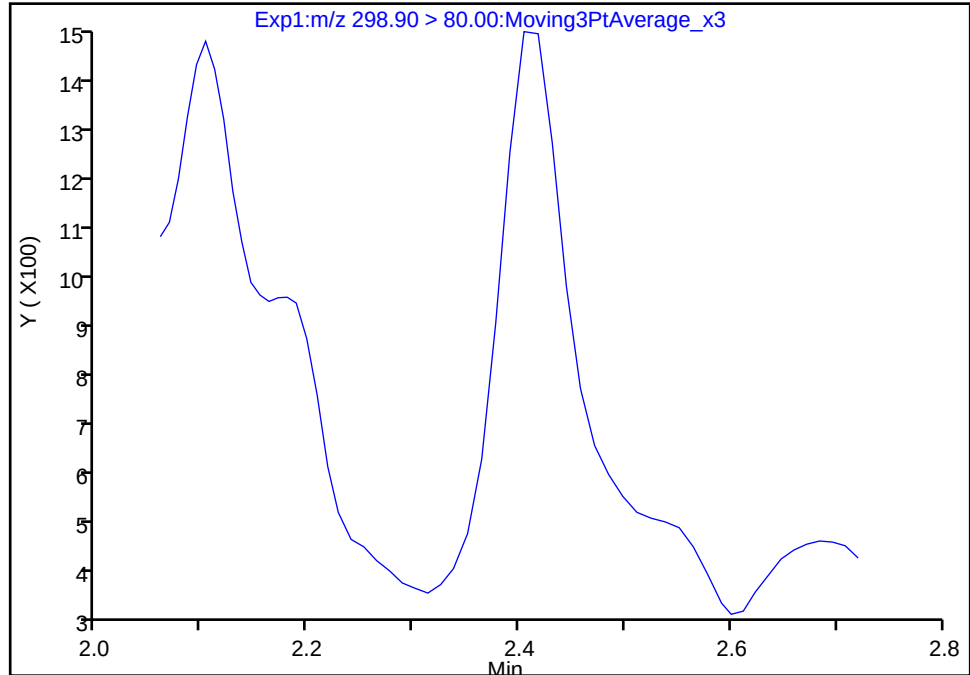
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

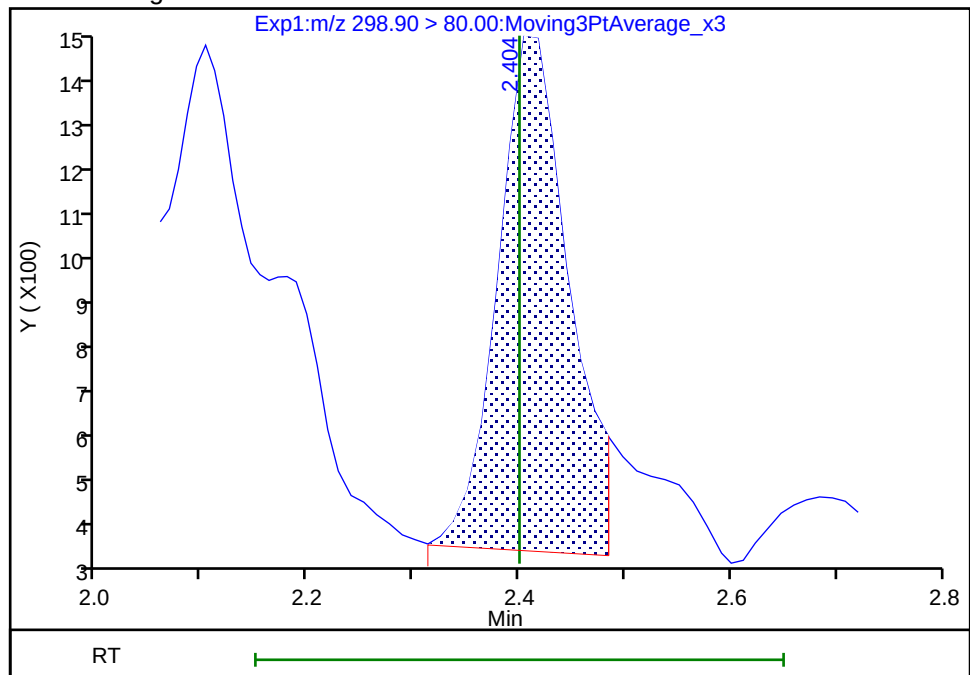
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 4989
Amount: 0.002435
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:14:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

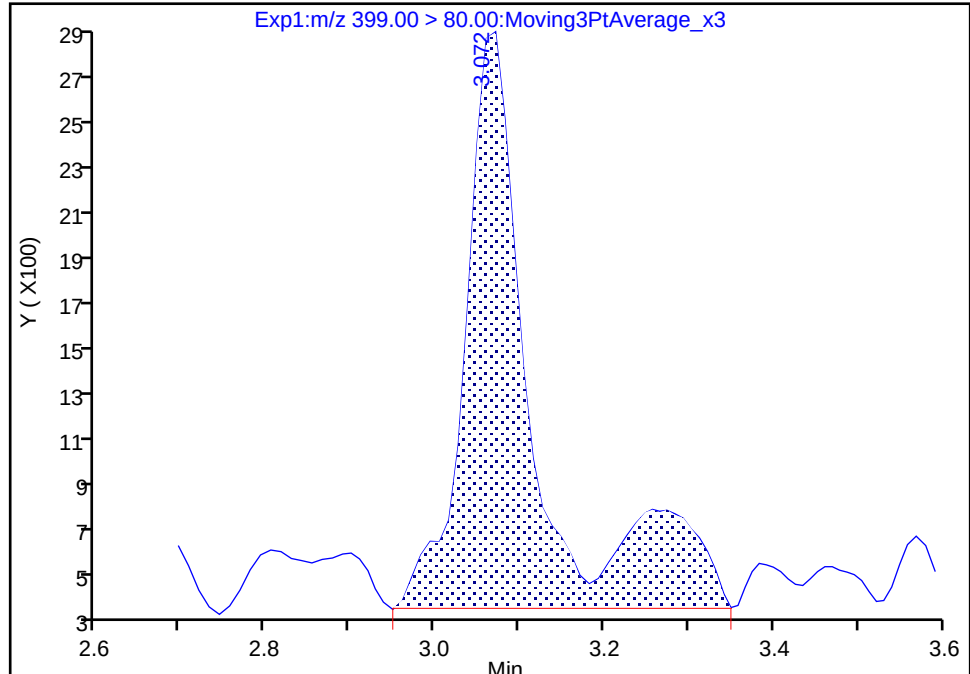
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

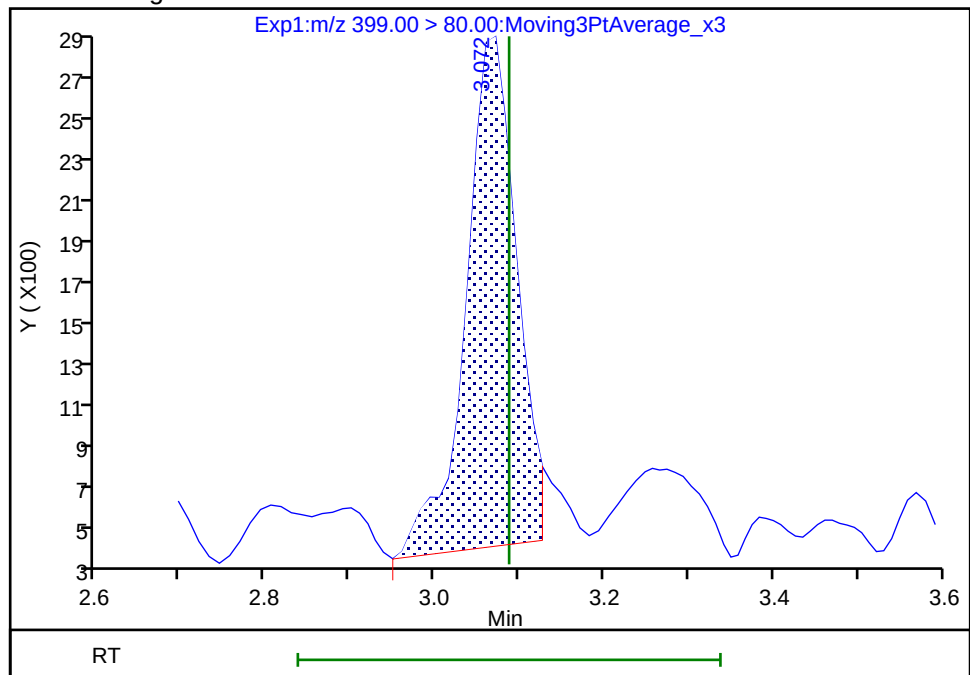
RT: 3.07
Area: 14112
Amount: 0.009485
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 10005
Amount: 0.006724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

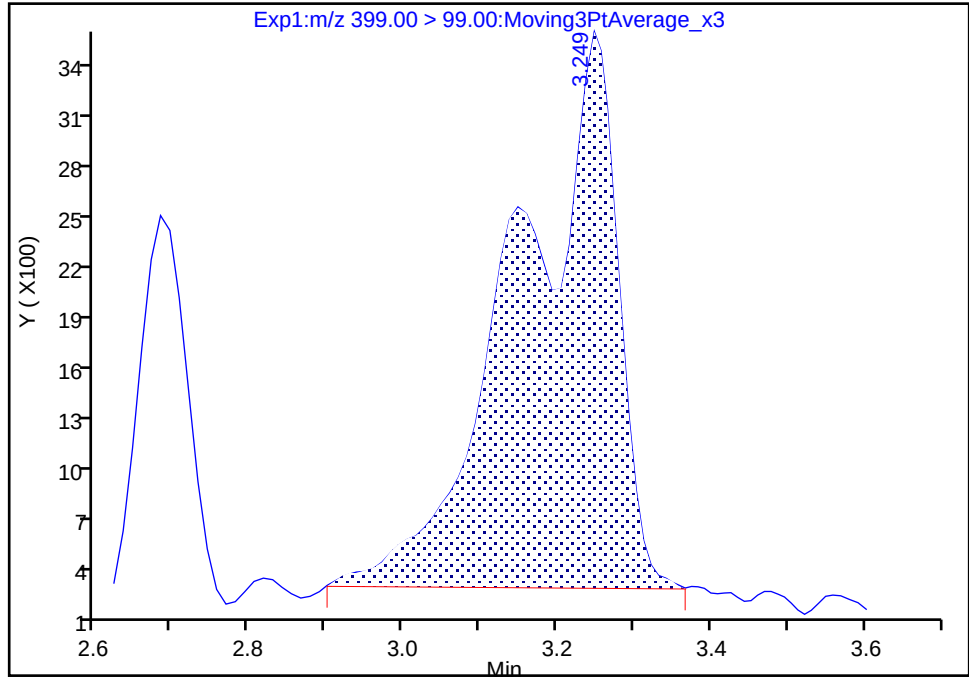
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

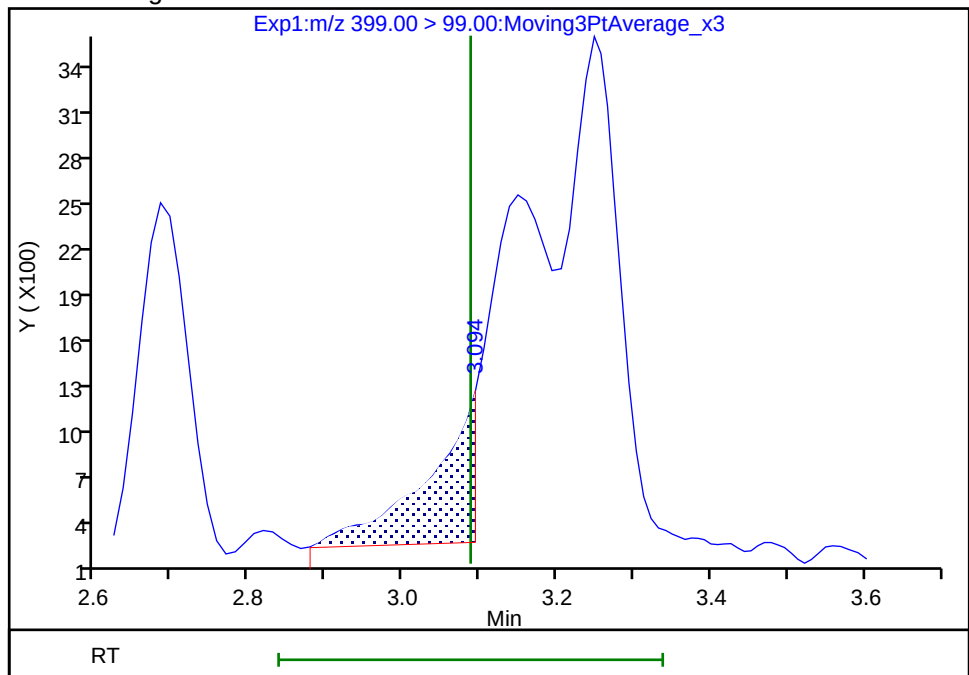
RT: 3.25
Area: 29094
Amount: 0.009485
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3931
Amount: 0.006724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

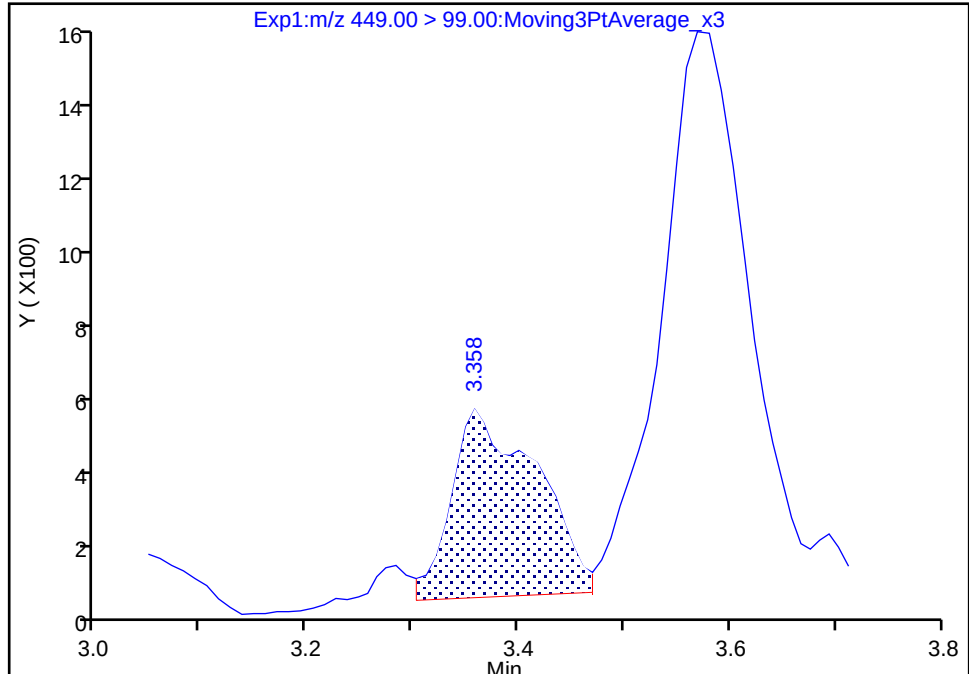
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

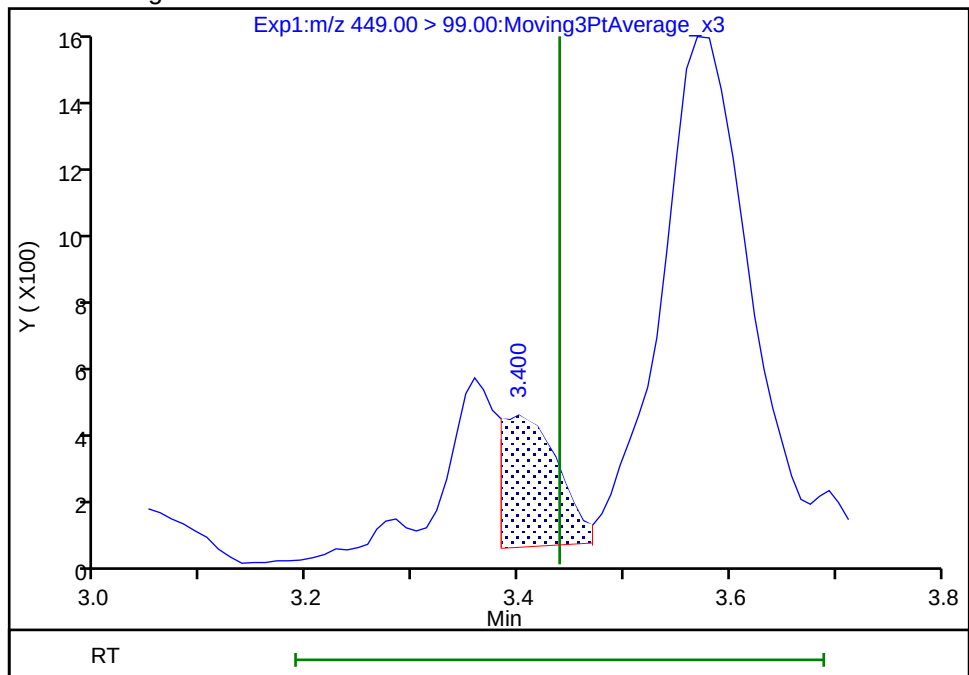
RT: 3.36
Area: 2716
Amount: 0.001448
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 1321
Amount: 0.001225
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

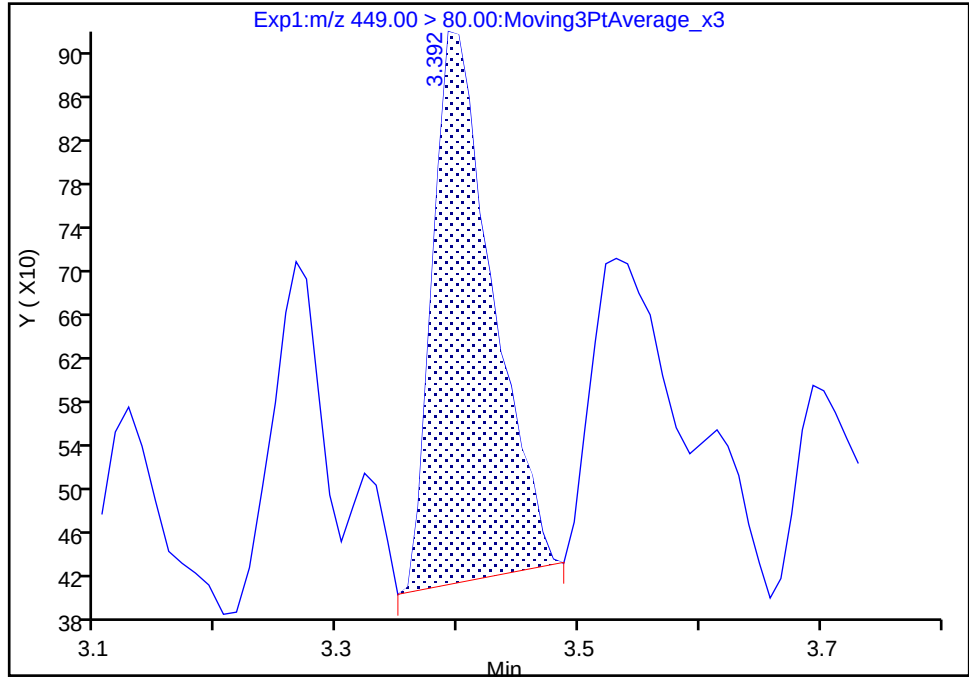
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

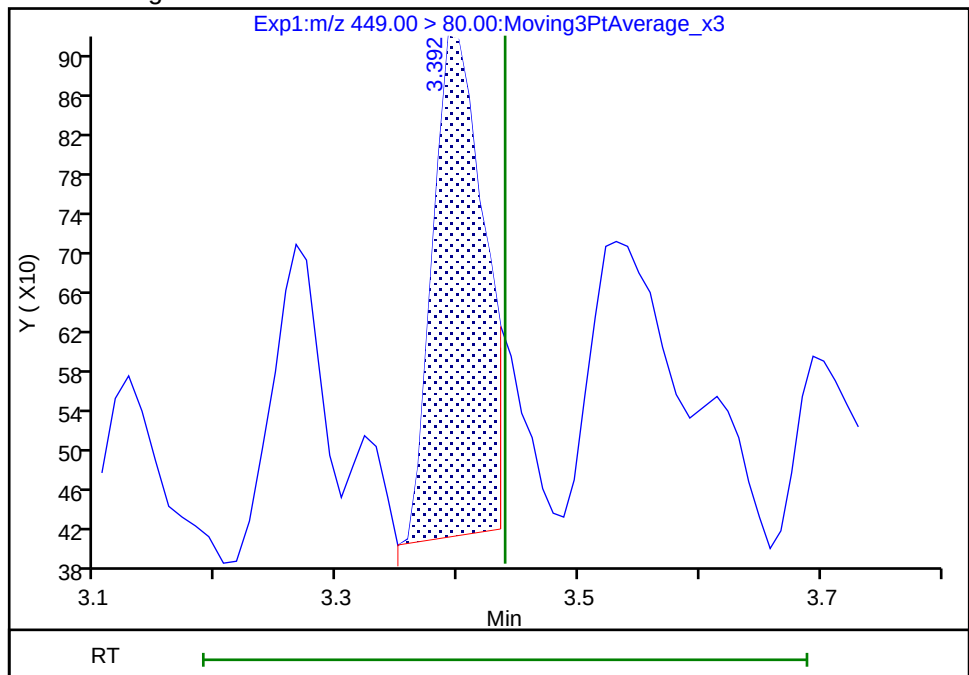
RT: 3.39
Area: 1746
Amount: 0.001448
Amount Units: ng/ml

Processing Integration Results



RT: 3.39
Area: 1477
Amount: 0.001225
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 123 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

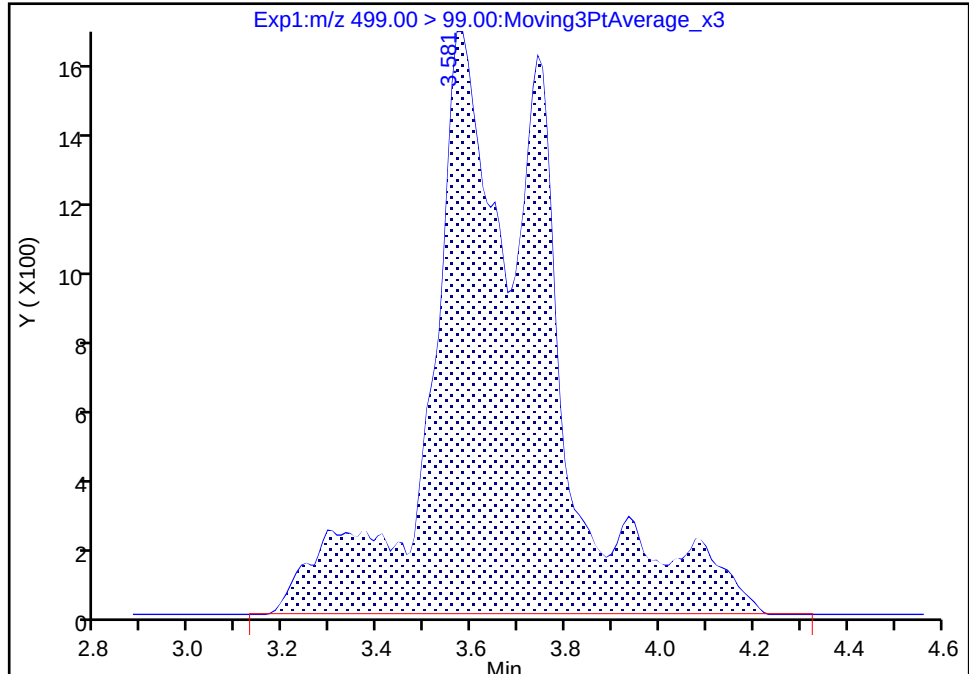
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

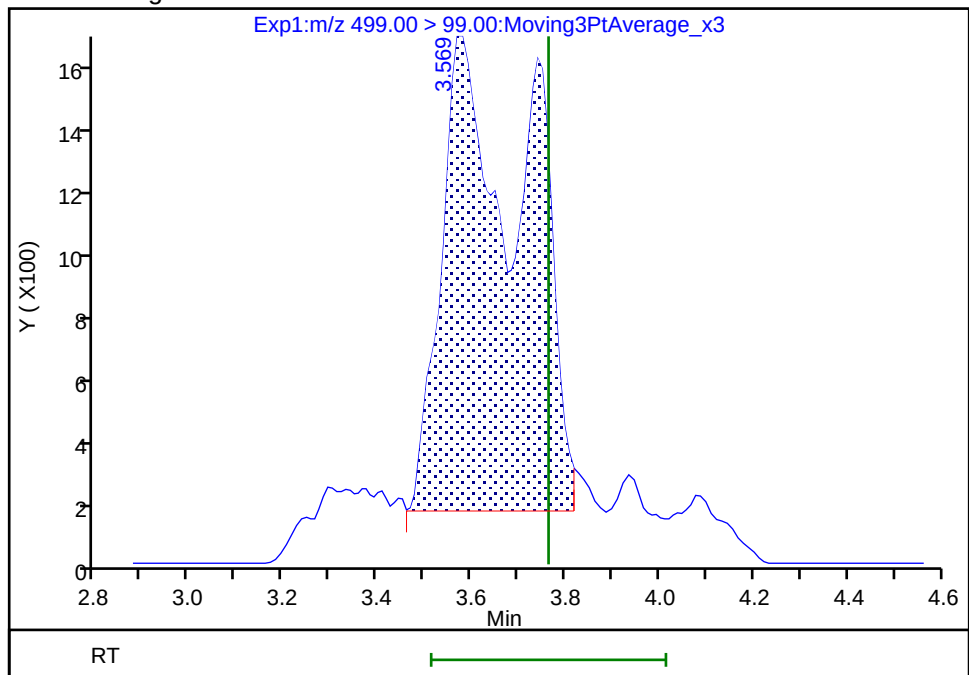
RT: 3.58
Area: 28943
Amount: 0.052417
Amount Units: ng/ml

Processing Integration Results



RT: 3.57
Area: 18382
Amount: 0.025191
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:16:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

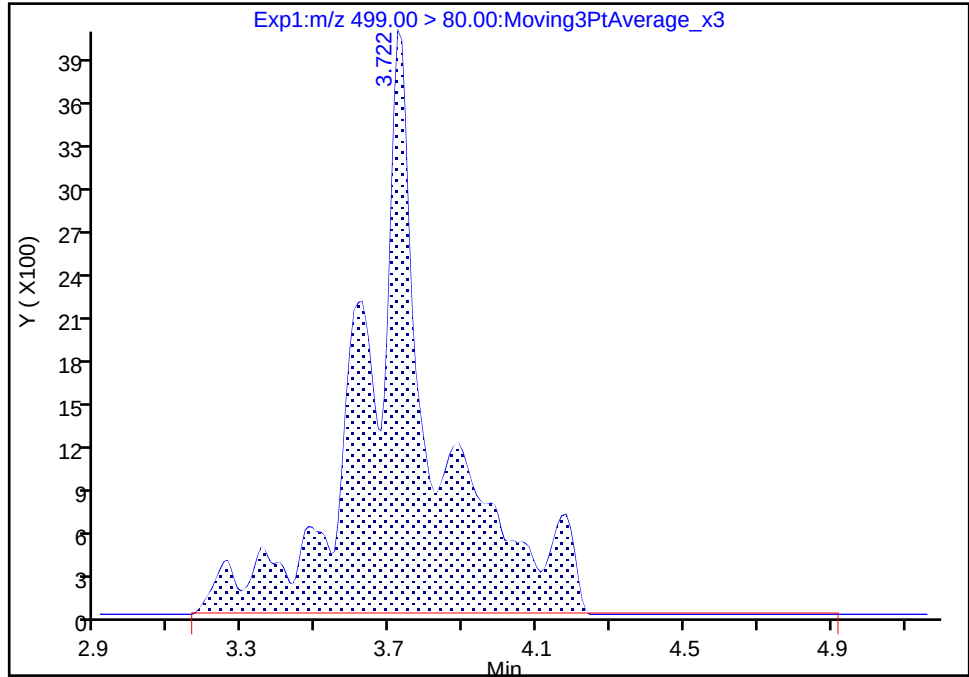
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

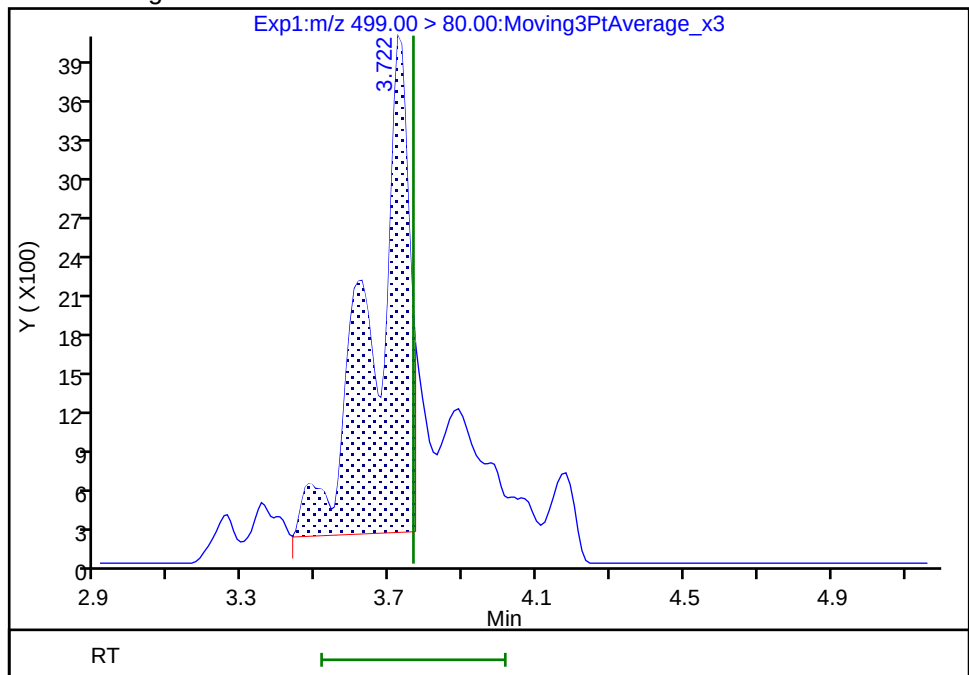
RT: 3.72
Area: 55050
Amount: 0.052417
Amount Units: ng/ml

Processing Integration Results



RT: 3.72
Area: 26457
Amount: 0.025191
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:16:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

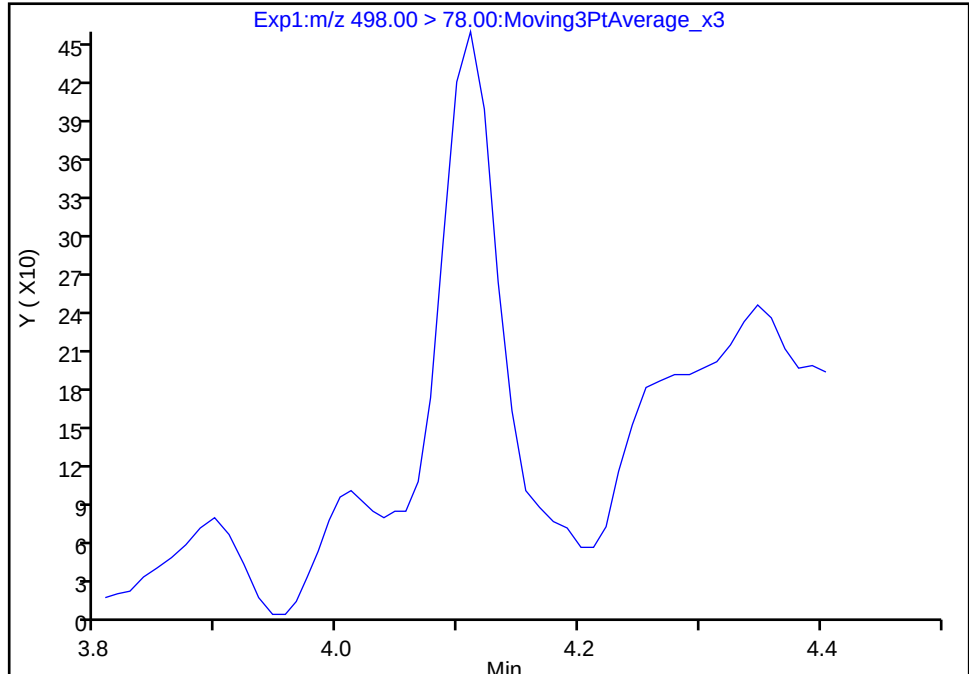
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

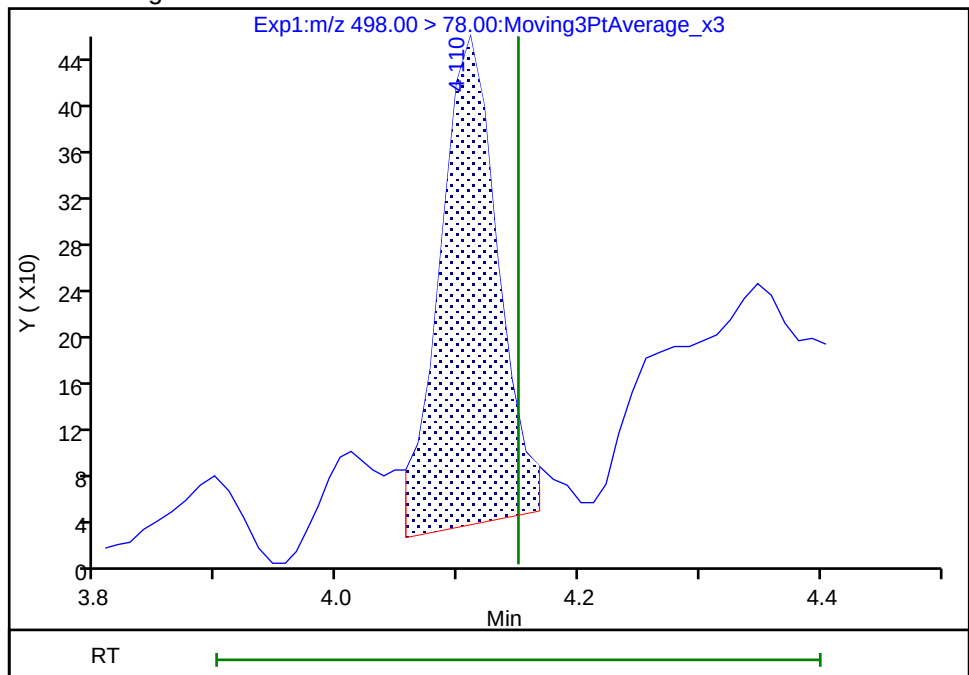
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 1402
Amount: 0.000970
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:17:56

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

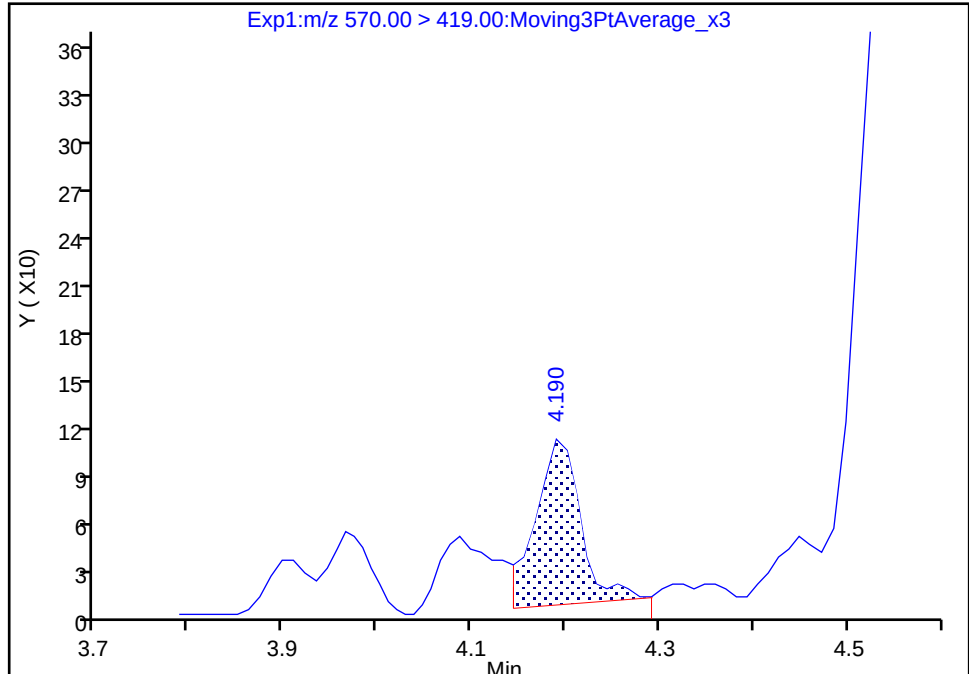
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

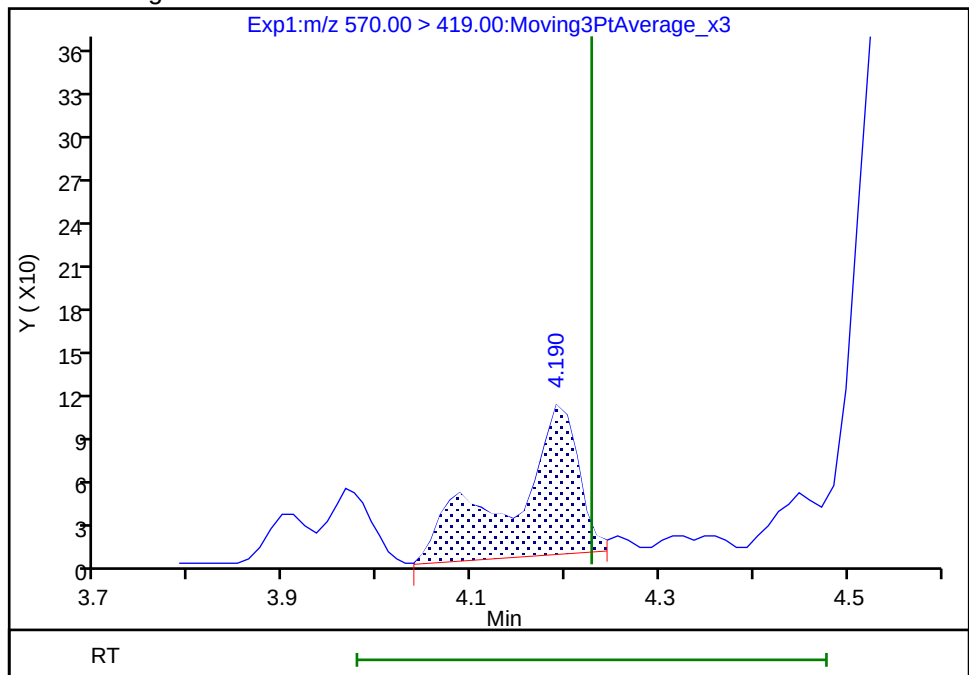
RT: 4.19
Area: 338
Amount: -0.010610
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 517
Amount: -0.010072
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:18:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

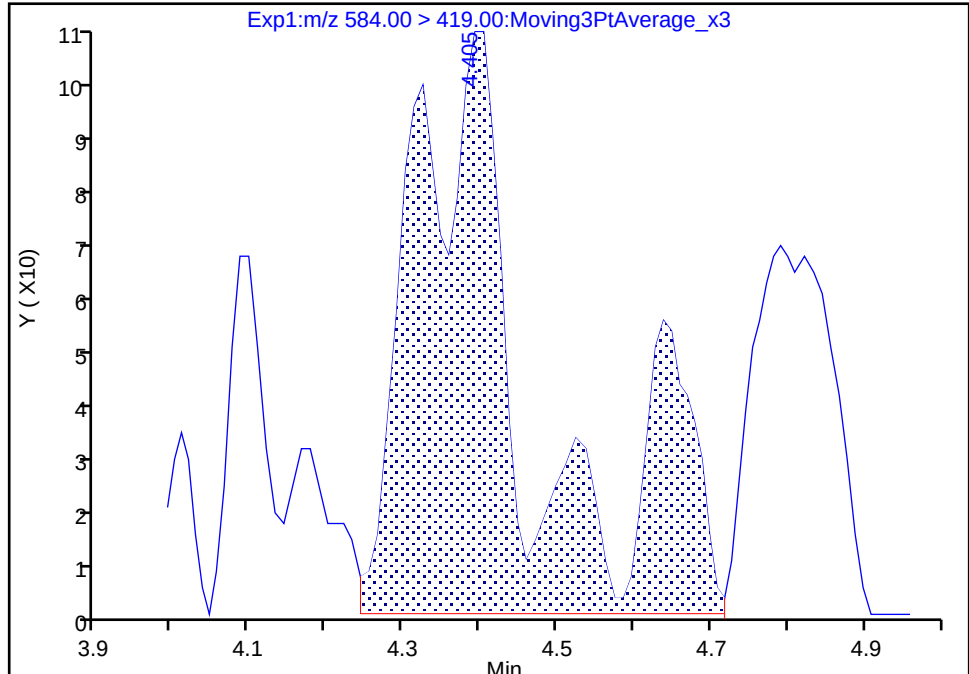
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d
Injection Date: 30-Dec-2022 15:03:55 Instrument ID: LC812
Lims ID: 460-271837-A-2-A Lab Sample ID: 200-271837-2
Client ID: BCS-21-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

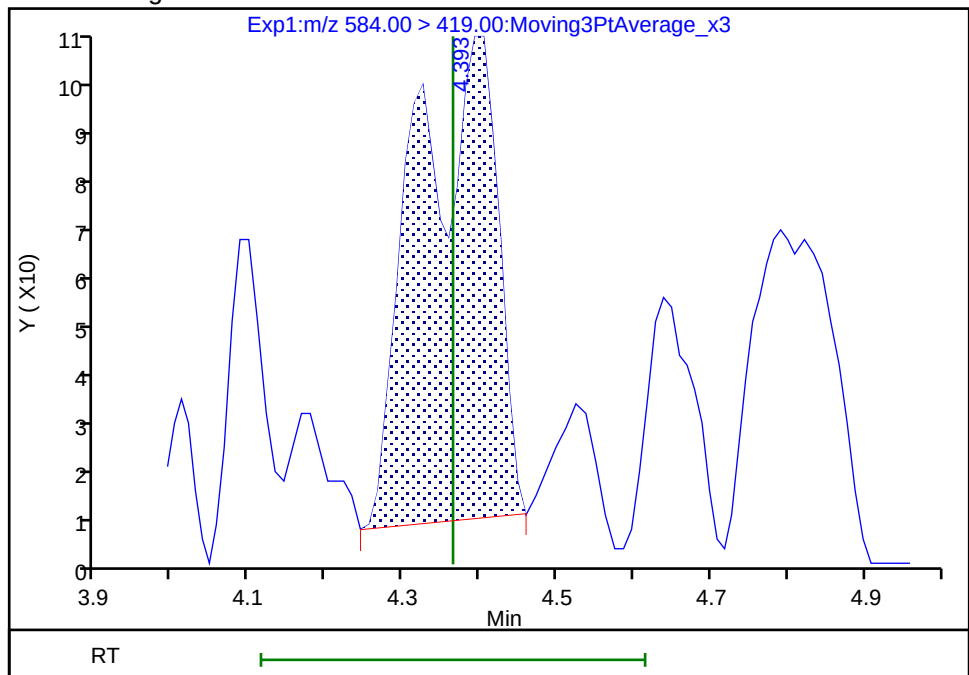
RT: 4.40
Area: 1219
Amount: 0.003201
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 724
Amount: 0.001901
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:18:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

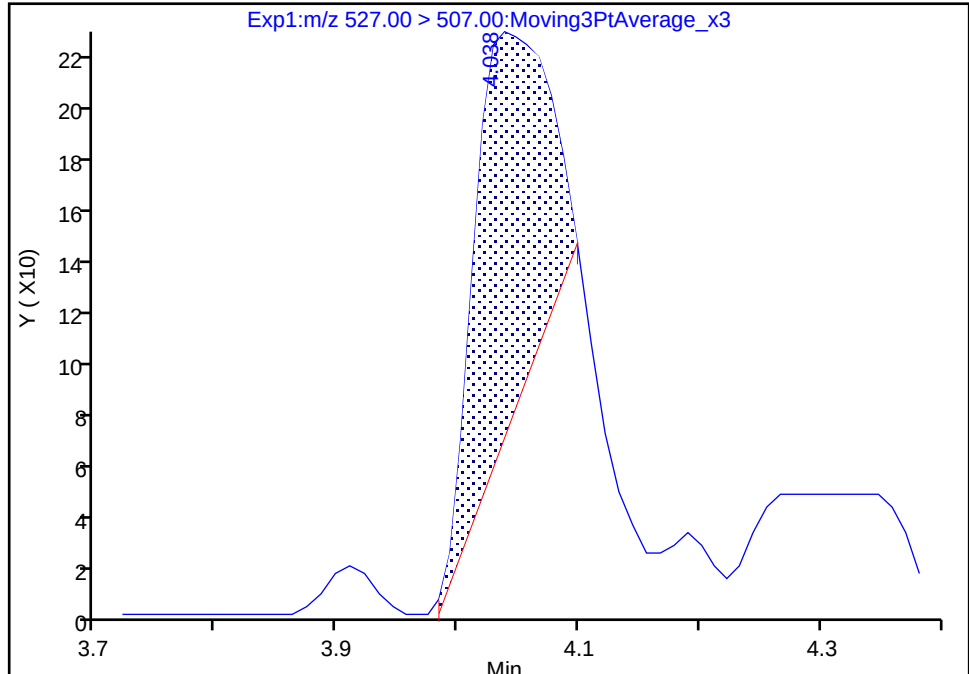
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

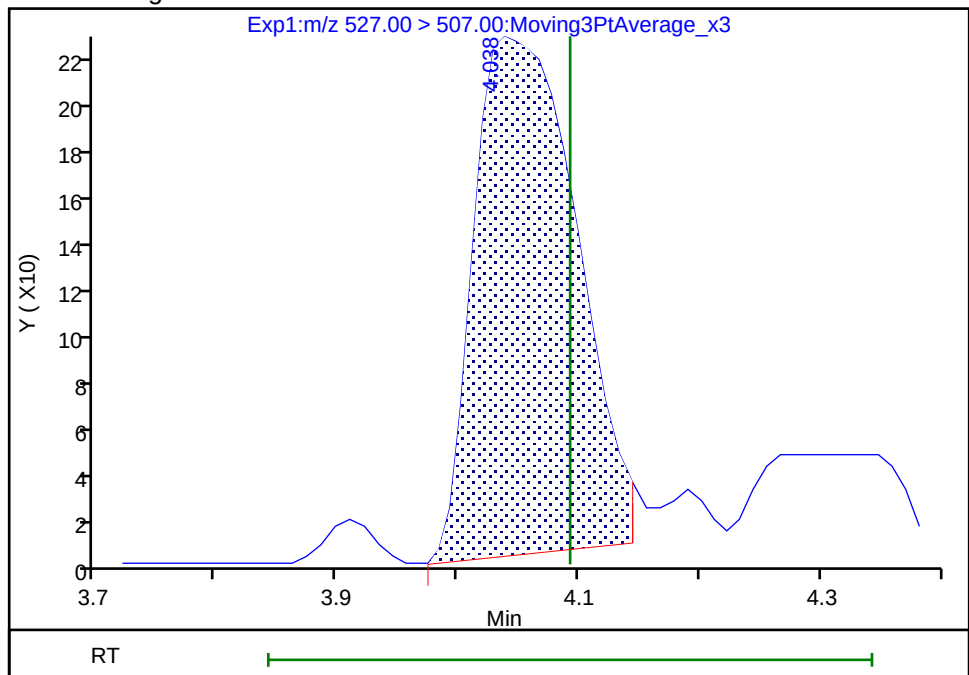
RT: 4.04
Area: 652
Amount: 0.001190
Amount Units: ng/ml

Processing Integration Results



RT: 4.04
Area: 1323
Amount: 0.002414
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:17:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

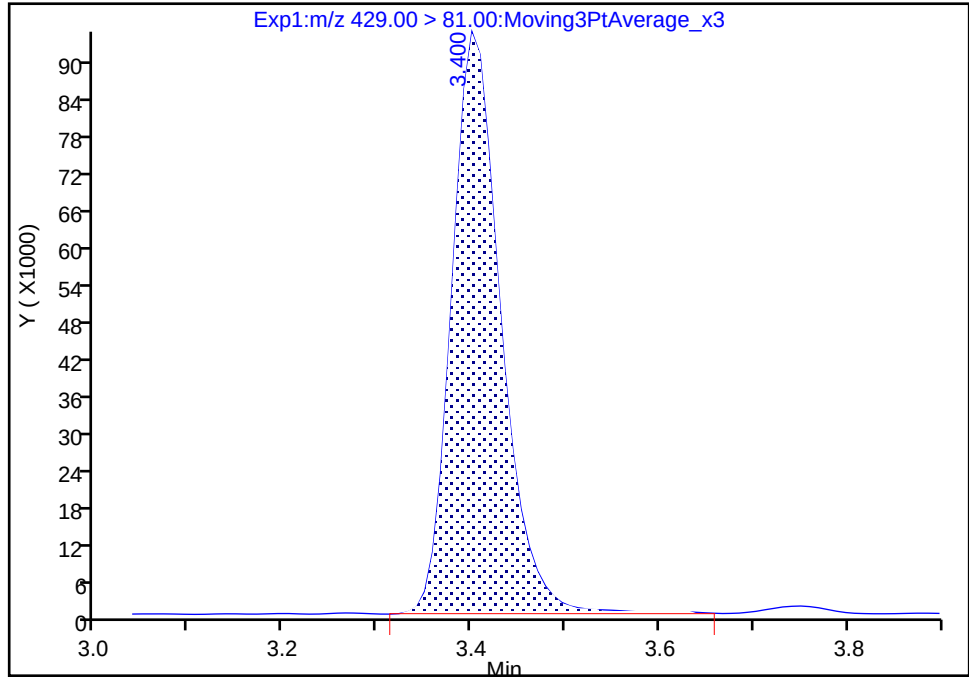
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A18.d				
Injection Date:	30-Dec-2022 15:03:55	Instrument ID:	LC812		
Lims ID:	460-271837-A-2-A	Lab Sample ID:	200-271837-2		
Client ID:	BCS-21-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

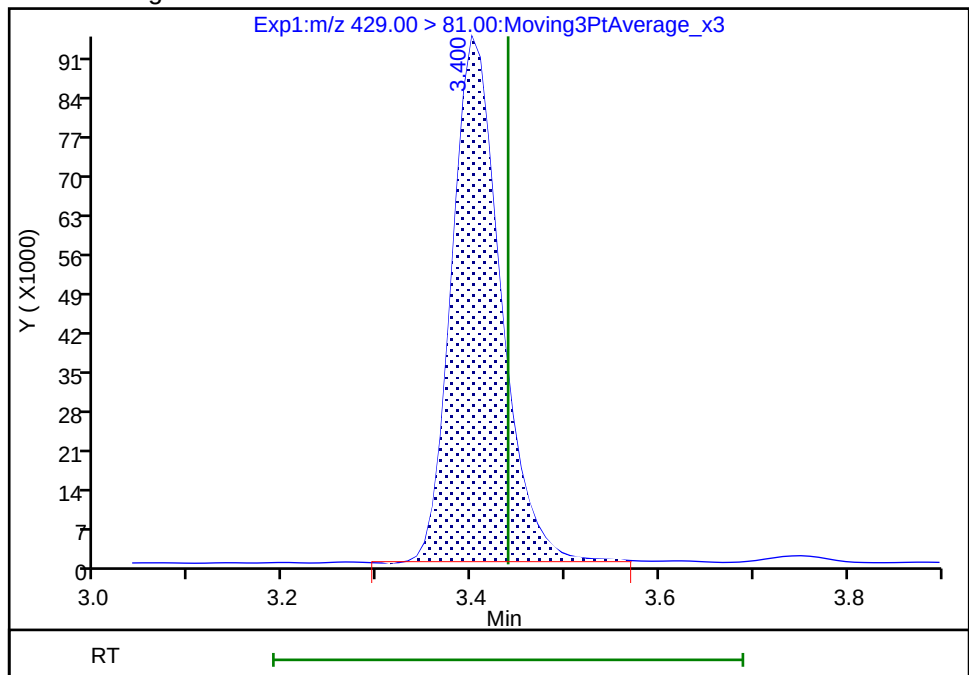
RT: 3.40
Area: 342715
Amount: 1.263896
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 337326
Amount: 1.244022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:15:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: BCS-21-23_(10-10.5)P Lab Sample ID: 460-271837-3
 Matrix: Solid Lab File ID: PA221230A19.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:25
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.13(g) Date Analyzed: 12/30/2022 15:12
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 29.9 % Solids: 70.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.70	U	0.70	0.46
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.28	U	0.28	0.076
307-24-4	Perfluorohexanoic acid (PFHxA)	0.28	U	0.28	0.064
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.28	U	0.28	0.054
335-67-1	Perfluorooctanoic acid (PFOA)	0.28	U	0.28	0.081
375-95-1	Perfluorononanoic acid (PFNA)	0.28	U	0.28	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	0.28	U	0.28	0.039
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.28	U	0.28	0.038
307-55-1	Perfluorododecanoic acid (PFDoA)	0.28	U	0.28	0.035
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.28	U	0.28	0.035
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	0.28	0.036
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.28	U	0.28	0.046
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.28	U	0.28	0.057
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.28	U	0.28	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.28	U	0.28	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	0.28	0.026
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.28	U	0.28	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.78	U	2.78	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.78	U	2.78	0.12
27619-97-2	6:2 FTS	2.78	U	2.78	0.079
39108-34-4	8:2 FTS	0.063	J	2.78	0.051

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: BCS-21-23_(10-10.5)P Lab Sample ID: 460-271837-3
 Matrix: Solid Lab File ID: PA221230A19.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:25
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.13(g) Date Analyzed: 12/30/2022 15:12
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 29.9 % Solids: 70.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	85		50-150
STL01892	13C4 PFHpA	88		50-150
STL00990	13C4 PFOA	88		50-150
STL00991	13C4 PFOS	80		50-150
STL00995	13C5 PFNA	88		50-150
STL00992	13C4 PFBA	82		50-150
STL00993	13C2 PFHxA	86		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	89		50-150
STL00998	13C2 PFDoA	89		50-150
STL01056	13C8 FOSA	72		50-150
STL01893	13C5 PFPeA	81		50-150
STL02116	13C2 PFTeDA	101		50-150
STL02118	d3-NMeFOSAA	77		50-150
STL02117	d5-NEtFOSAA	84		50-150
STL02279	M2-6:2 FTS	105		50-150
STL02280	M2-8:2 FTS	100		50-150
STL02337	13C3 PFBS	82		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
 Lims ID: 460-271837-A-3-A
 Client ID: BCS-21-23_(10-10.5)P
 Sample Type: Client
 Inject. Date: 30-Dec-2022 15:12:05 ALS Bottle#: 16 Worklist Smp#: 19
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271837-A-3-A
 Misc. Info.: 200-0053865-019 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 10:26:21

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.093	2.076	0.017	0.612	2741077	1.03		82.3	8253	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.000	89711	0.0397		5.7		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.698	2047352	1.01		80.7	2789	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.386	2.387	-0.001	1.000	29789	0.0167		0.5		
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.701	2102387	0.9533		82.0	123956	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	3931	0.001900	Target=2.09	1.3		M
298.90 > 99.00	2.400	2.400	0.0	1.000	1795		2.19(1.04-3.13)	0.2		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.793	2281357	1.07		85.8	5879	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	25176	0.0127	Target=14.25	2.3		M
313.00 > 119.00	2.725	2.725	0.0	1.004	1526		16.50(7.12-21.37)	1.1		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.076	3.088	-0.012	0.899	1618054	1.01		85.2	4559	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.076	3.088	-0.012	1.000	7556	0.004893	Target=3.66	2.9		M
399.00 > 99.00	3.087	3.088	-0.001	1.004	2819		2.68(1.83-5.49)	0.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.076	3.099	-0.023	0.899	2397977	1.10		87.7	3093	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.076	3.099	-0.023	1.000	8960	0.004290	Target=3.97	1.3		
363.00 > 169.00	3.076	3.099	-0.023	1.000	1928		4.65(1.98-5.95)	2.6		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.413	3.439	-0.026	0.997	334905	1.24		105	230	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.413	3.439	-0.026	1.000	7077	0.00000601			6.7	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.421	3.439	-0.018	0.916	1138	0.000935	Target=5.14	0.7		RM
449.00 > 99.00	3.421	3.439	-0.018	0.916	2870		0.40(2.57-7.72)	2.2		RM
D 14 13C4 PFOA										
417.00 > 372.00	3.421	3.448	-0.027	1.000	2718874	1.11		88.4	3952	
* 62 13C2 PFOA										
415.00 > 370.00	3.421	3.448	-0.027		2970213	1.25			4810	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.421	3.448	-0.027	1.000	27940	0.0120	Target=2.79	1.5		M
413.00 > 169.00	3.421	3.448	-0.027	1.000	9775		2.86(1.40-4.19)	7.4		M
D 18 13C4 PFOS										
503.00 > 80.00	3.735	3.764	-0.029	1.092	1041114	0.9550		79.9	845	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.735	3.764	-0.029	1.000	39371	0.0372	Target=5.11	16.3		RM
499.00 > 99.00	3.573	3.764	-0.191	0.957	32369		1.22(2.55-7.66)	19.9		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.754	3.783	-0.029	1.000	10863	0.004955	Target=8.55	1.3		RM
463.00 > 169.00	3.754	3.783	-0.029	1.000	759		14.31(4.28-12.83)	4.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.754	3.783	-0.029	1.097	2641809	1.11		88.4	2791	
D 23 13C2 PFDA										
515.00 > 470.00	4.041	4.081	-0.040	1.181	2857394	1.17		93.9	5799	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.050	4.081	-0.031	1.002	8235	0.003322	Target=10.26	1.4		M
513.00 > 169.00	4.061	4.081	-0.020	1.005	1202		6.85(5.13-15.38)	2.0		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.050	4.093	-0.043	1.184	393321	1.19		99.7	321	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.061	4.093	-0.032	1.003	12026	0.0226		62.6		M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.115	4.150	-0.035	1.000	1842	0.001230		4.3		M
D 21 13C8 FOSA										
506.00 > 78.00	4.115	4.150	-0.035	1.203	1791253	0.8971		71.8	3067	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.195	4.228	-0.033	1.226	477037	0.9620		77.0	1972	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.249	4.228	0.021	1.013	314	-0.0107		1.2		
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.285	4.331	-0.046	1.147	1423	0.002254	Target=2.51	2.1		M
599.00 > 99.00	4.285	4.331	-0.046	1.147	701		2.03(1.25-3.76)	1.0		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.353	-0.034	1.263	2480093	1.11		89.0	4775	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.319	4.353	-0.034	1.000	1747	0.000874	Target=9.88	0.7		M
563.00 > 169.00	4.273	4.353	-0.080	0.989	252		6.93(4.94-14.82)	1.4		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.308	4.365	-0.057	0.997	848	0.002320		4.6		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.365	-0.046	1.263	510250	1.05		83.6	1253	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.567	4.591	-0.024	1.003	4268	0.001985	Target=7.77	0.6		RM
613.00 > 169.00	4.555	4.591	-0.036	1.000	225		18.97(3.89-11.66)	2.4		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.555	4.591	-0.036	1.331	2536543	1.12		89.3	3521	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.758	4.804	-0.046	1.045	1170	0.000569	Target=5.21	0.2		RM
663.00 > 169.00	4.758	4.804	-0.046	1.045	479		2.44(2.60-7.81)	4.7		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.962	5.012	-0.050	1.000	405	0.001493	Target=0.89	4.8		M
713.00 > 219.00	4.942	5.012	-0.070	0.996	351		1.15(0.44-1.33)	4.9		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.962	5.012	-0.050	1.450	2477231	1.26		101	7305	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d

Injection Date: 30-Dec-2022 15:12:05

Instrument ID: LC812

Lims ID: 460-271837-A-3-A

Lab Sample ID: 200-271837-3

Client ID: BCS-21-23_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 16

Worklist Smp#: 19

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

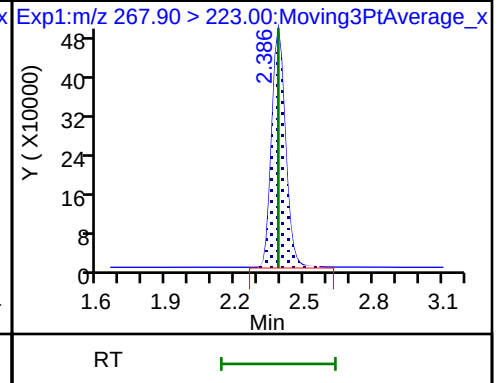
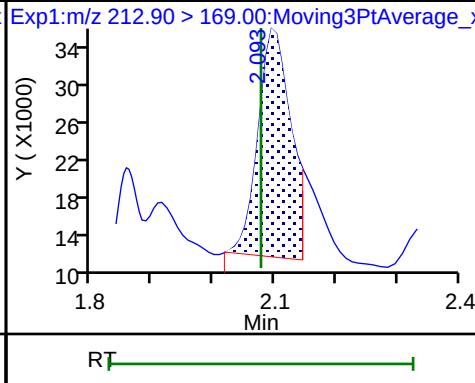
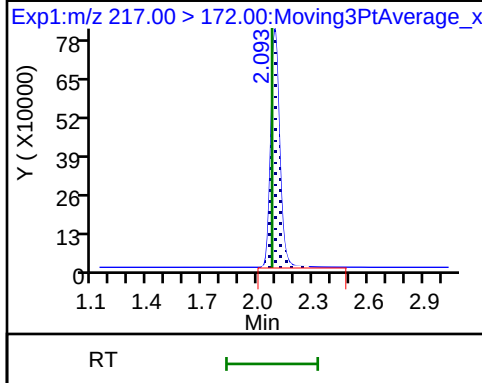
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

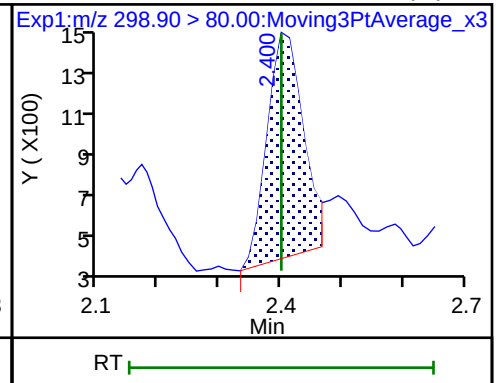
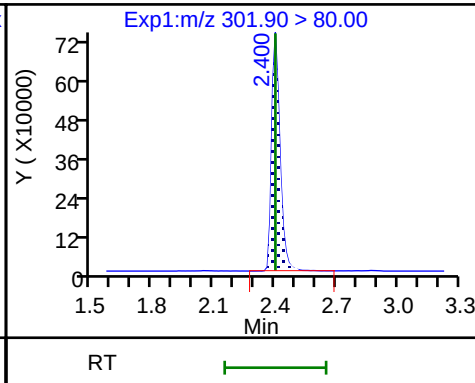
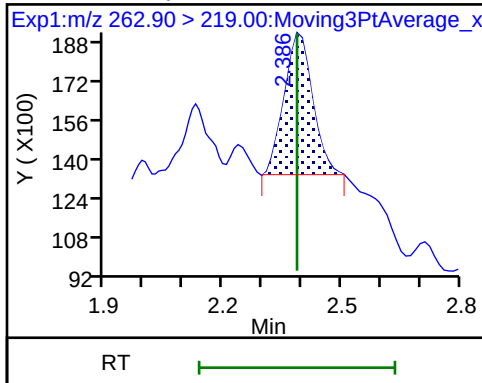
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

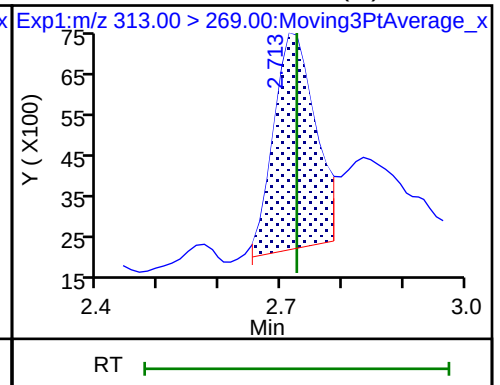
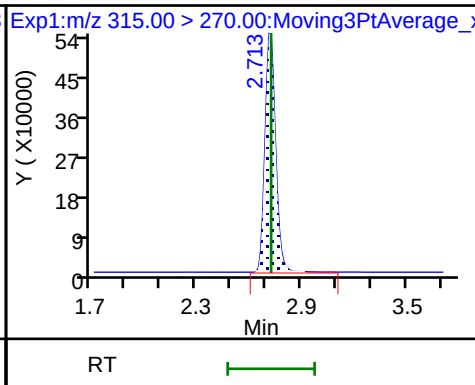
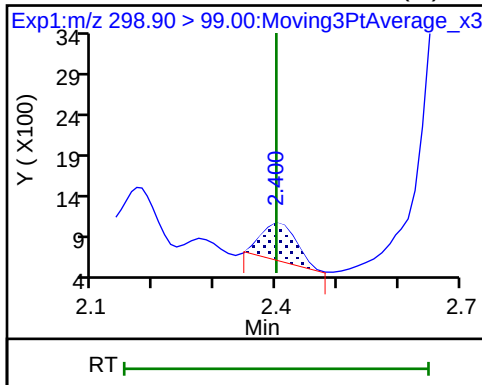
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

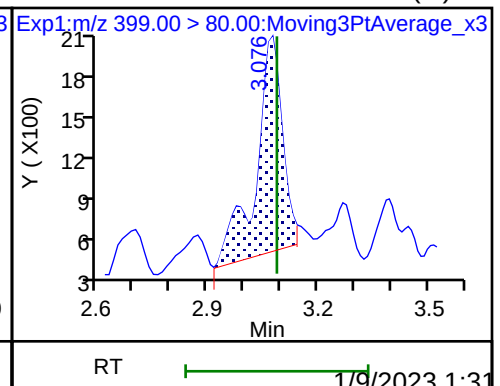
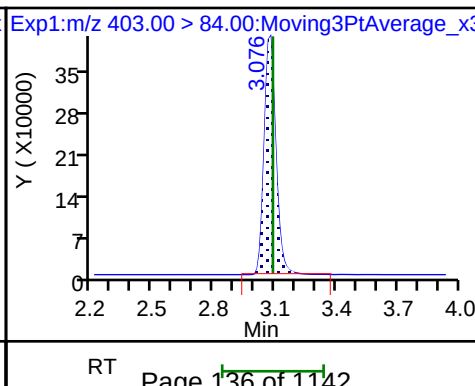
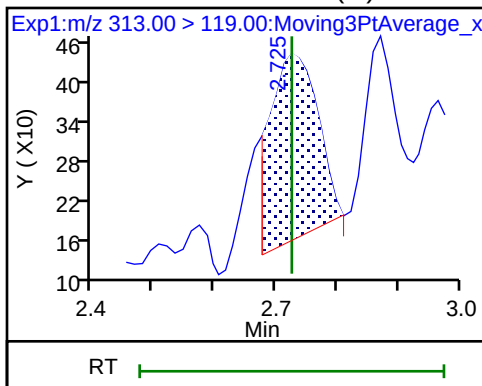
6 Perfluorohexanoic acid (M)

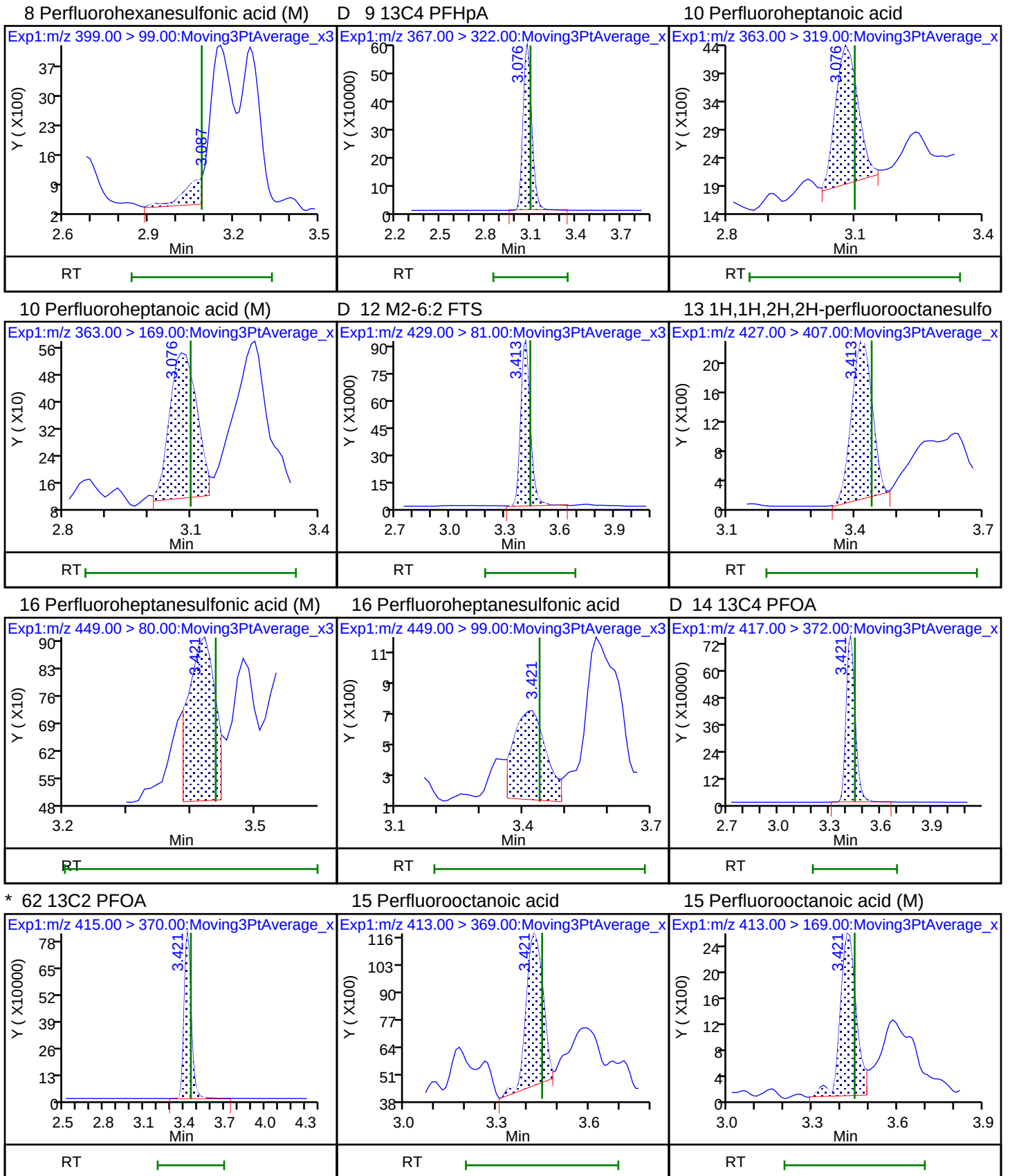


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

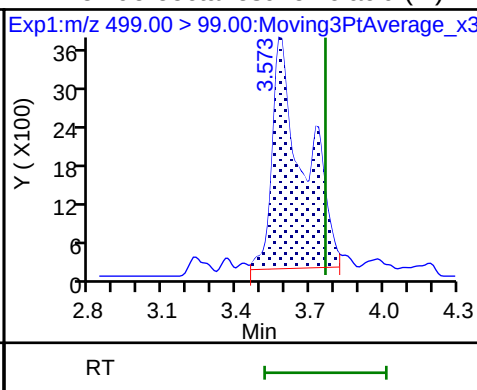
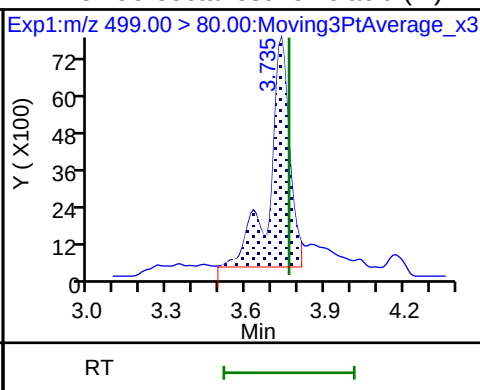
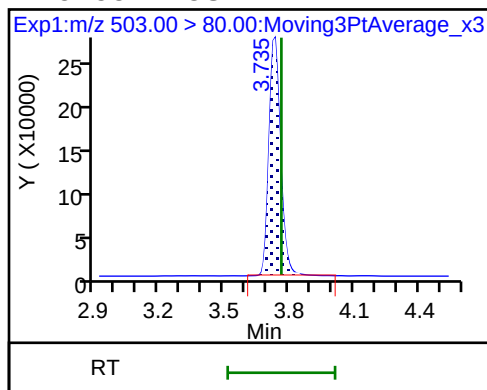




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

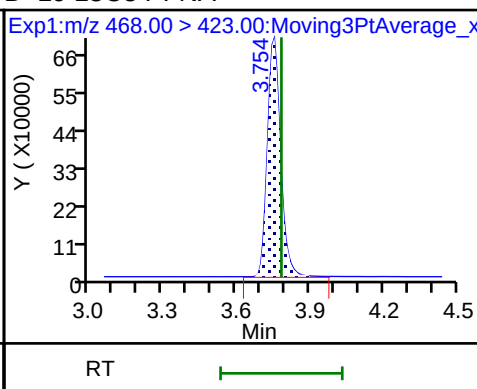
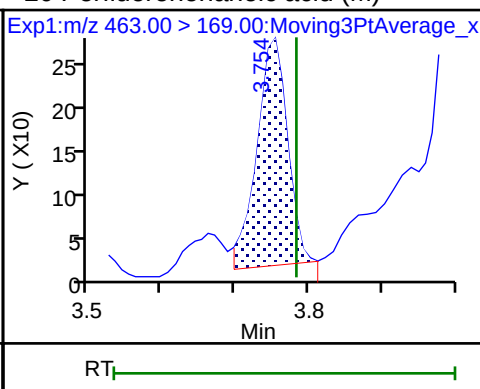
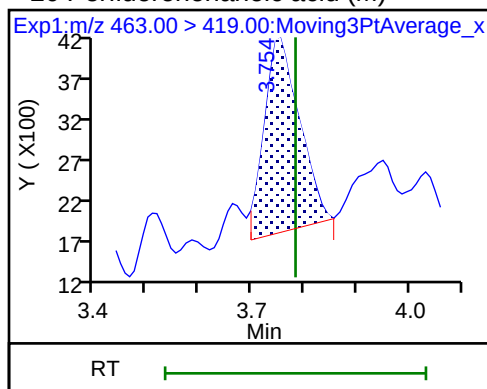
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

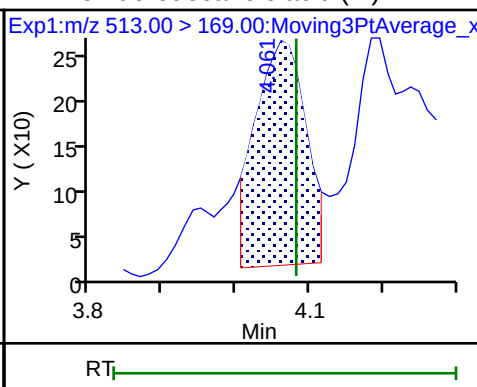
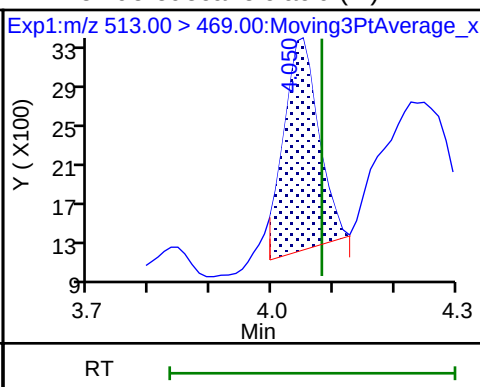
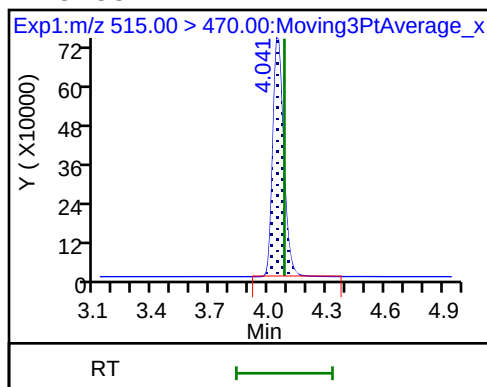
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

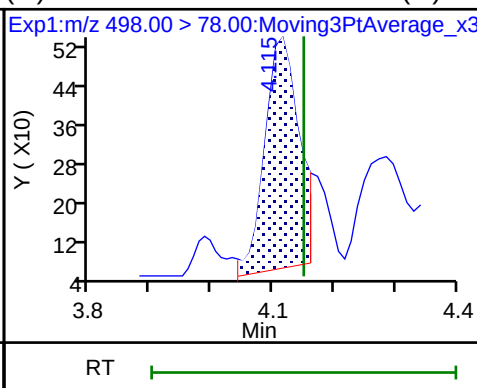
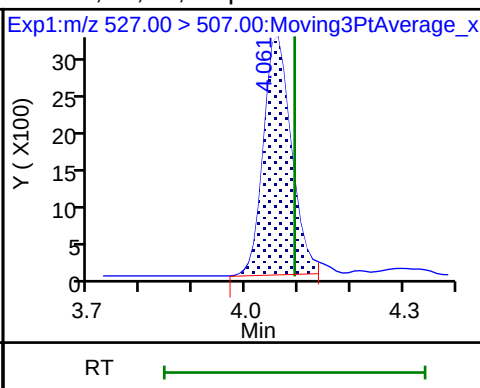
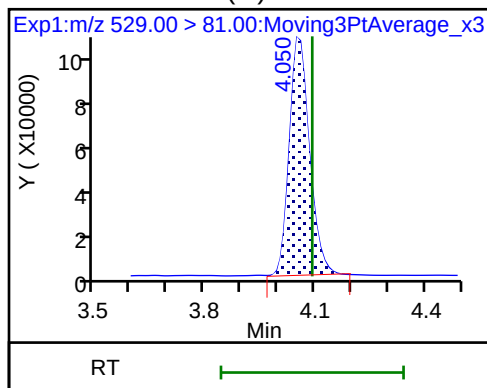
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS (M)

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

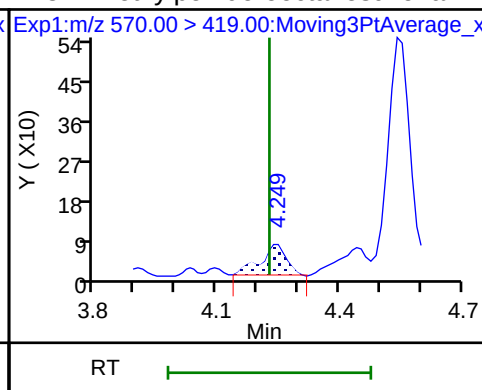
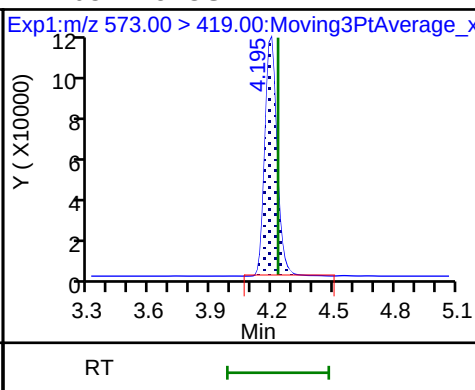
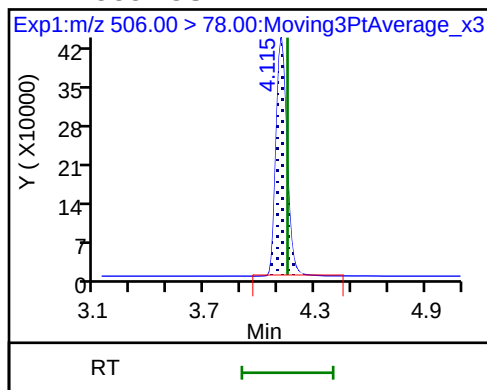
22 Perfluorooctanesulfonamide (M)



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

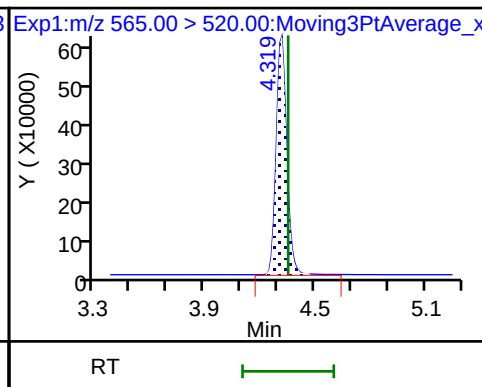
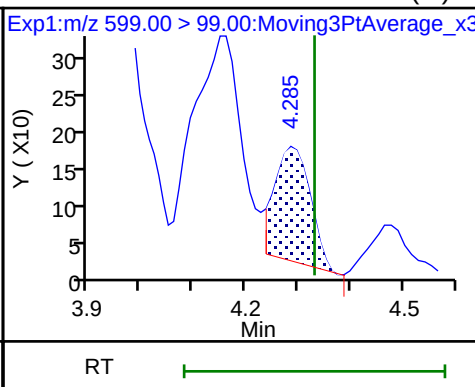
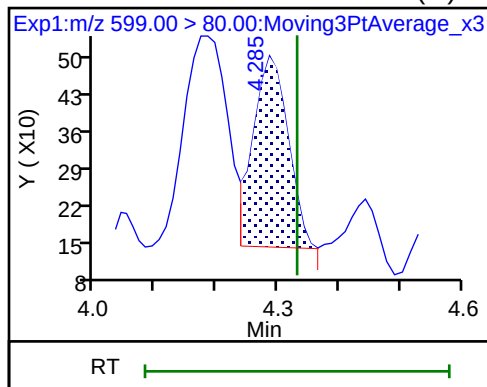
28 N-methylperfluorooctanesulfonami



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

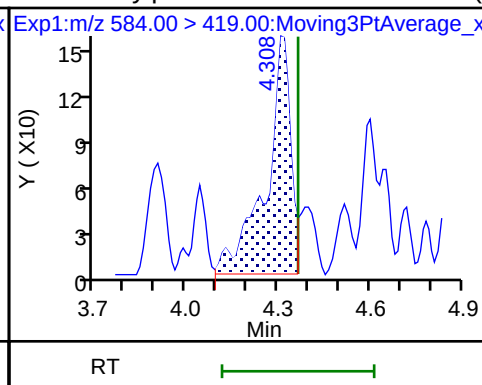
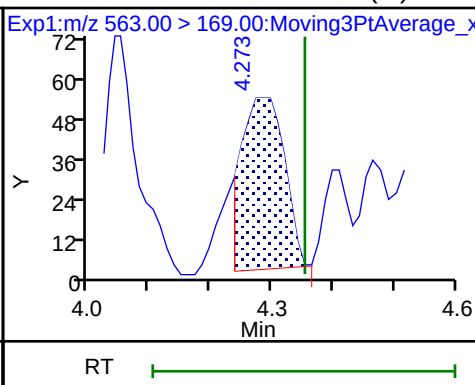
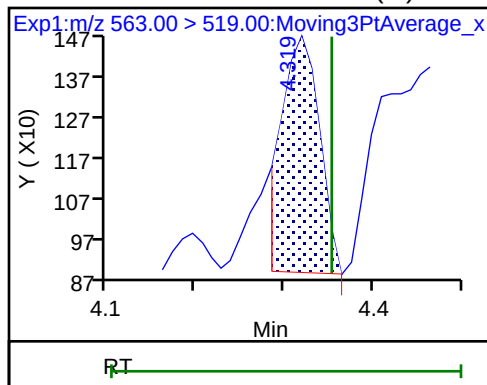
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

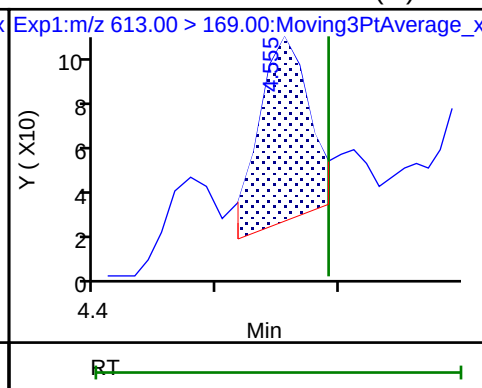
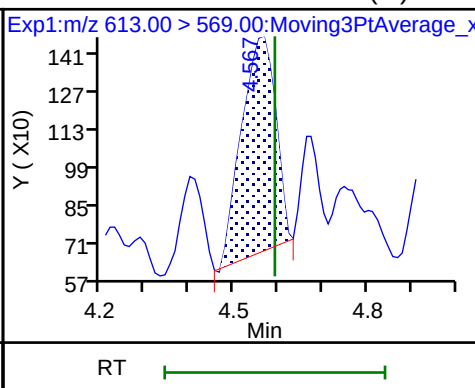
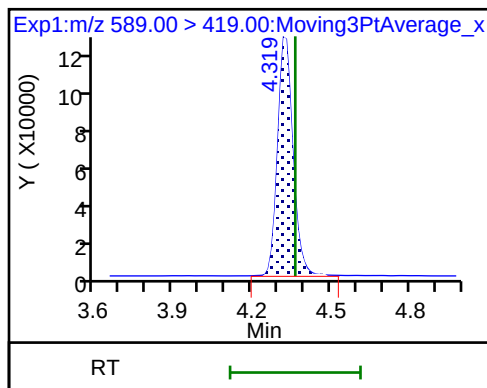
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid (M)

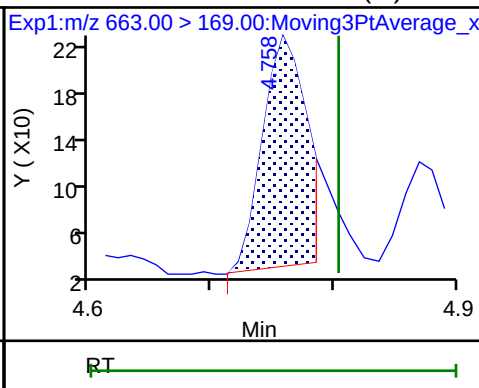
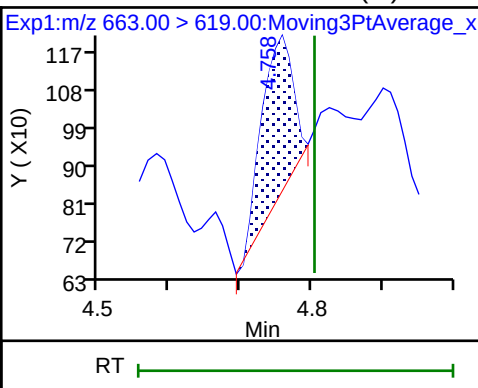
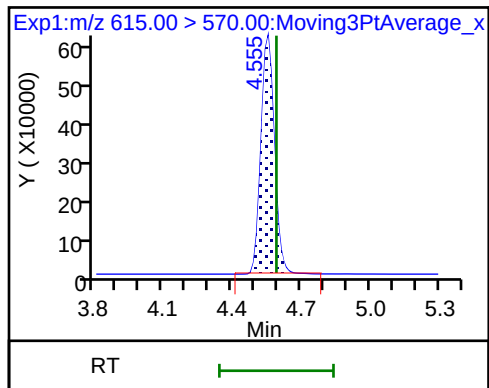
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

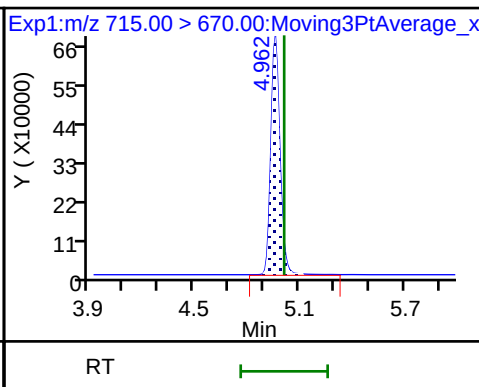
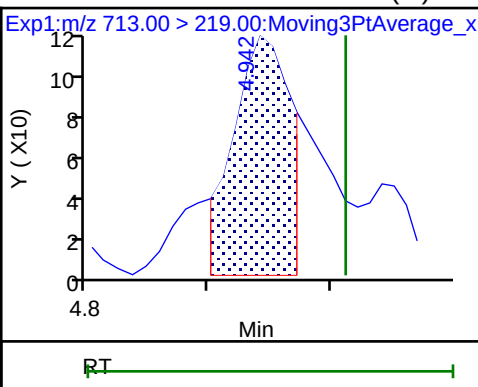
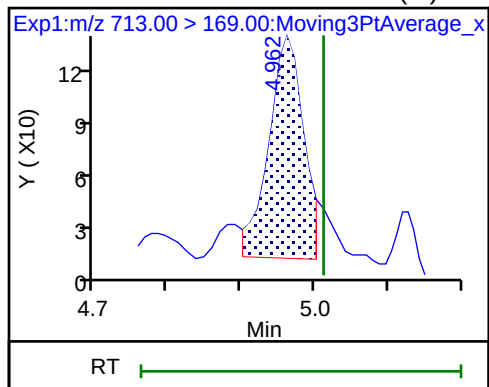
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

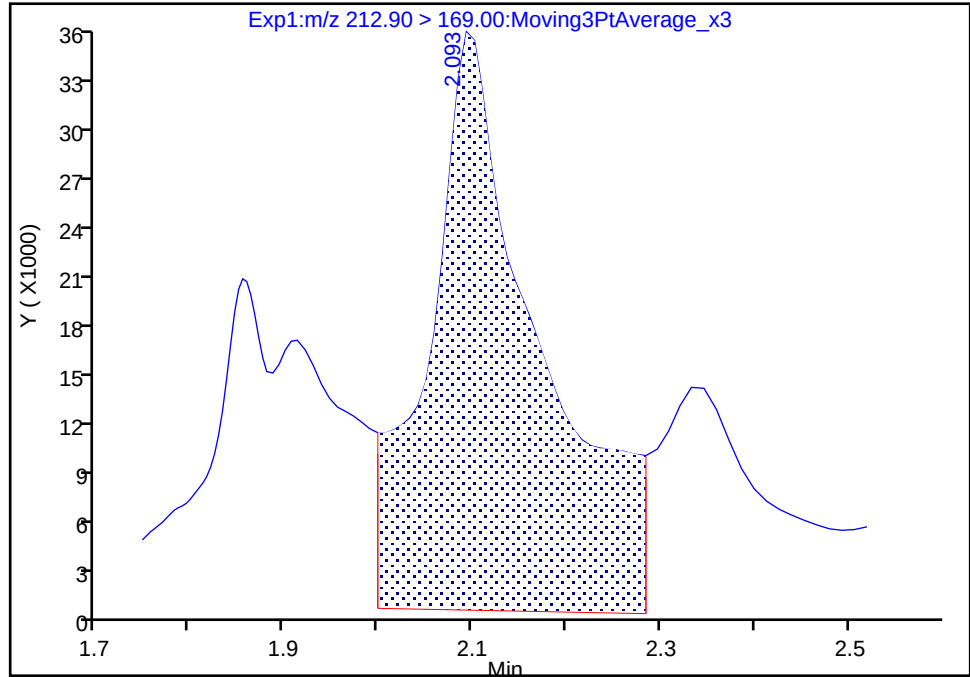
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

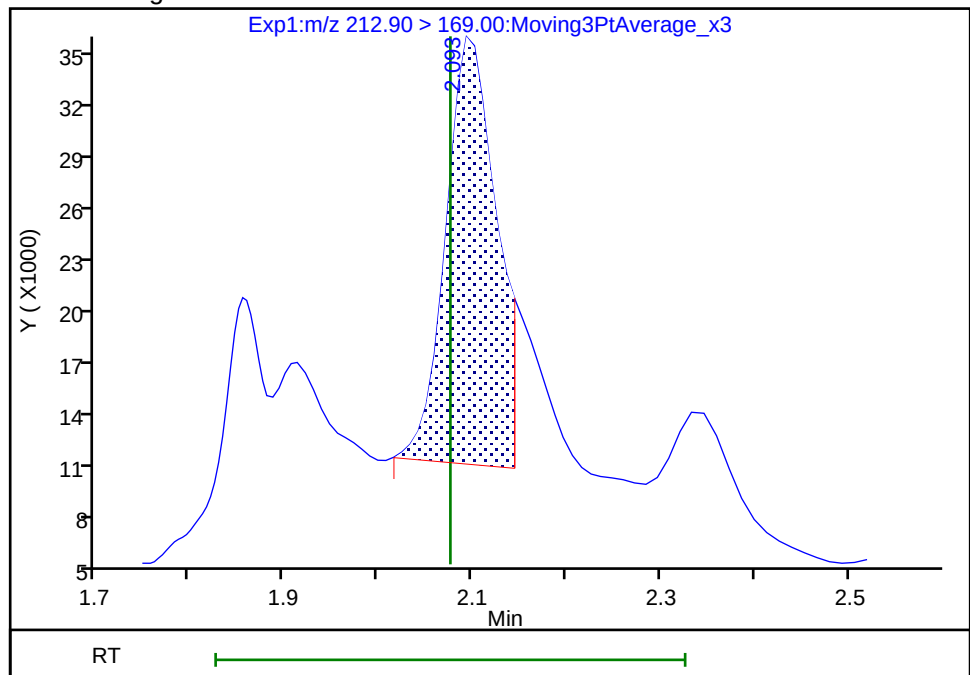
RT: 2.09
Area: 283718
Amount: 0.125468
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 89711
Amount: 0.039673
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:20:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

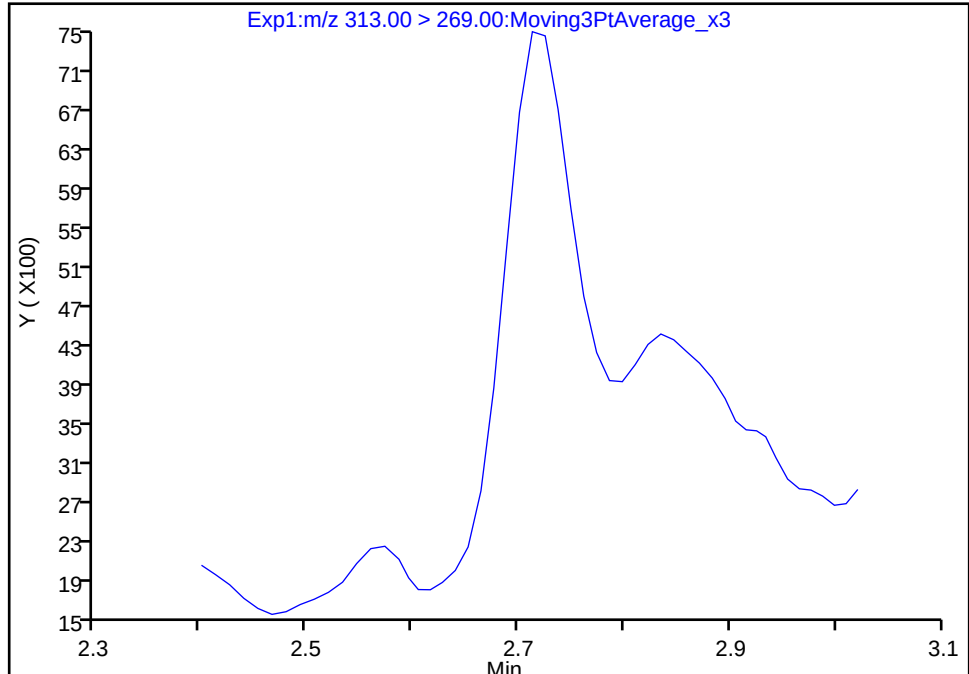
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

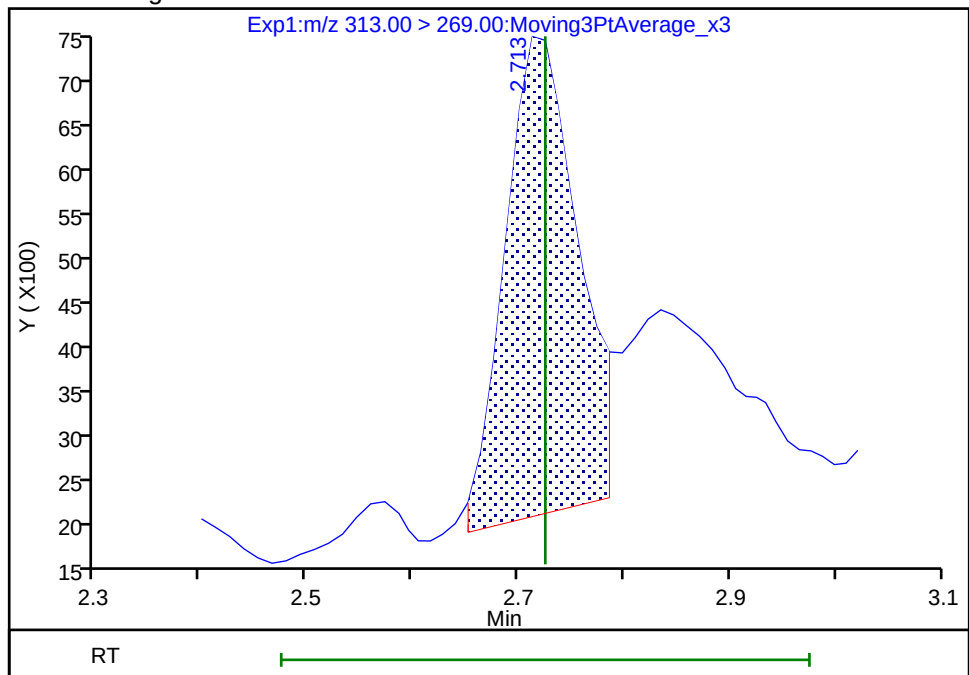
Signal: 1

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.71
Area: 25176
Amount: 0.012660
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:21:10
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

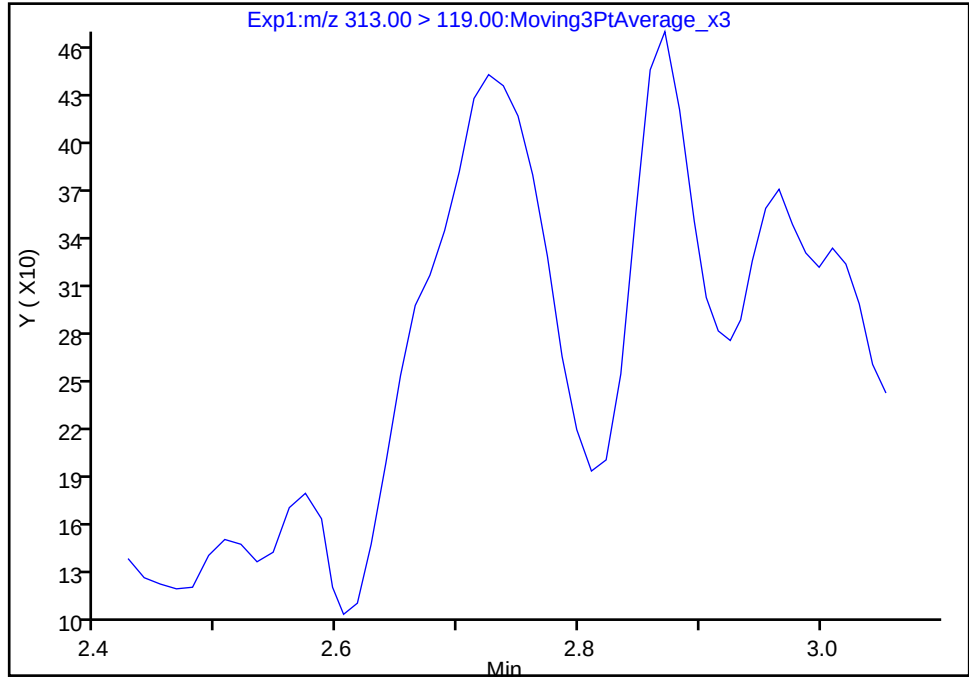
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

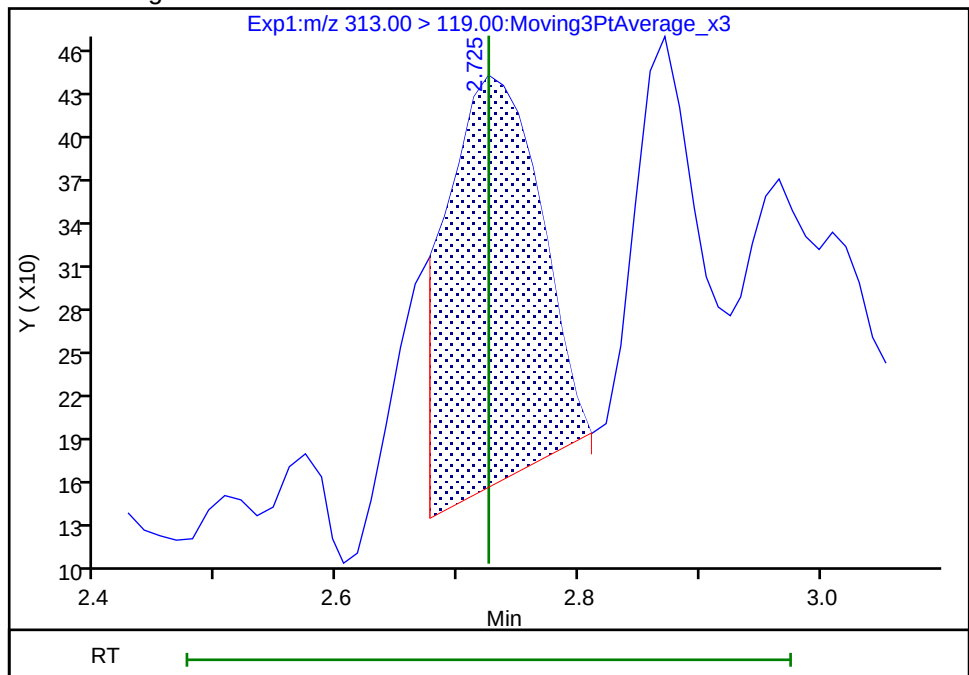
Signal: 2

Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.73
Area: 1526
Amount: 0.012660
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:21:14

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

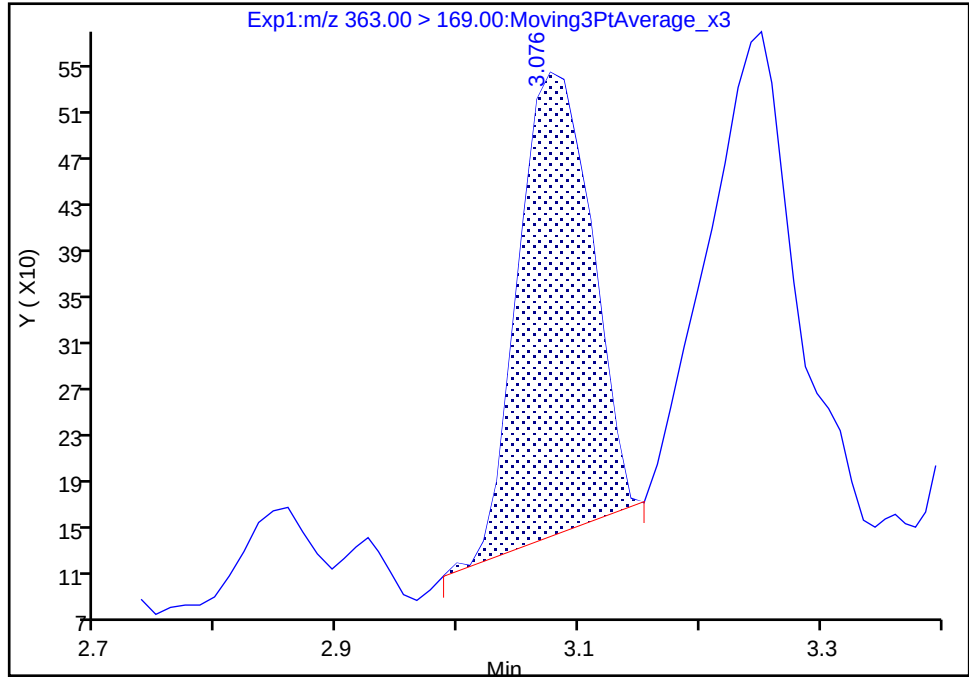
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

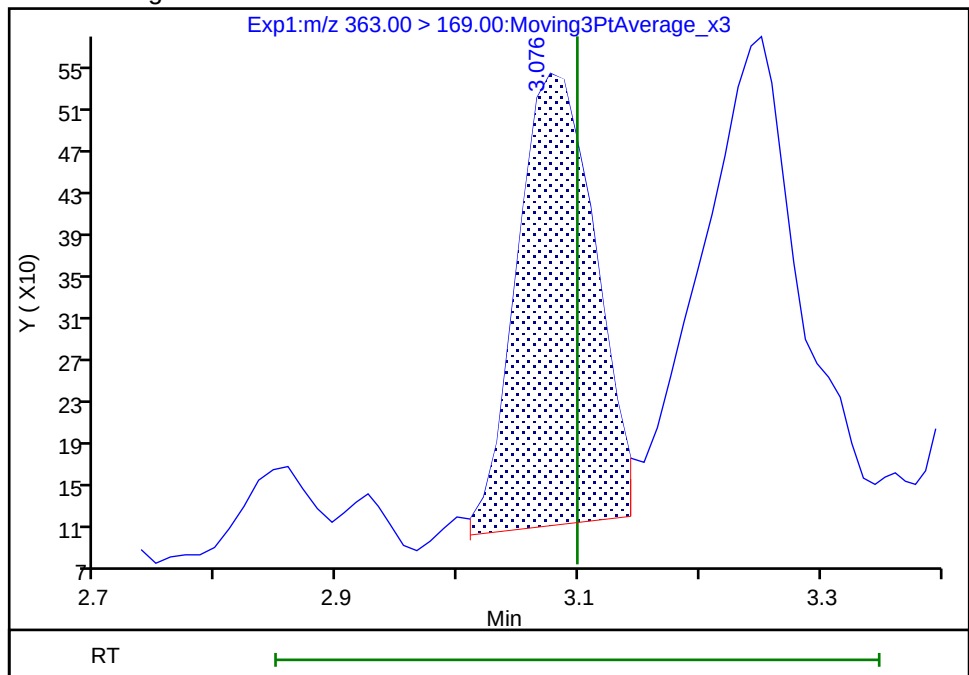
RT: 3.08
Area: 1688
Amount: 0.004290
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 1928
Amount: 0.004290
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:22:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

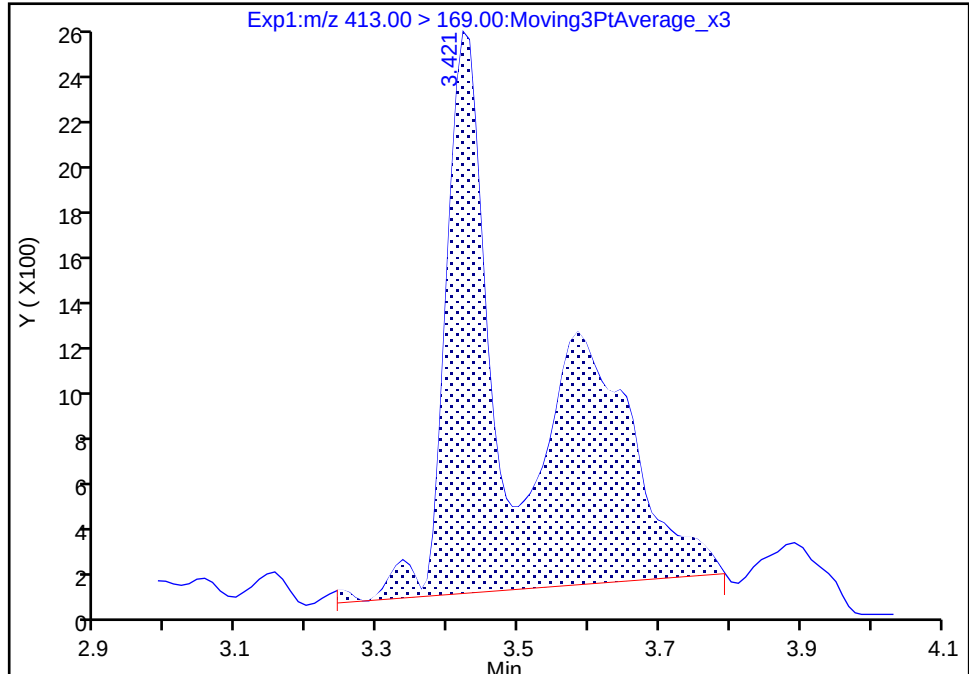
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

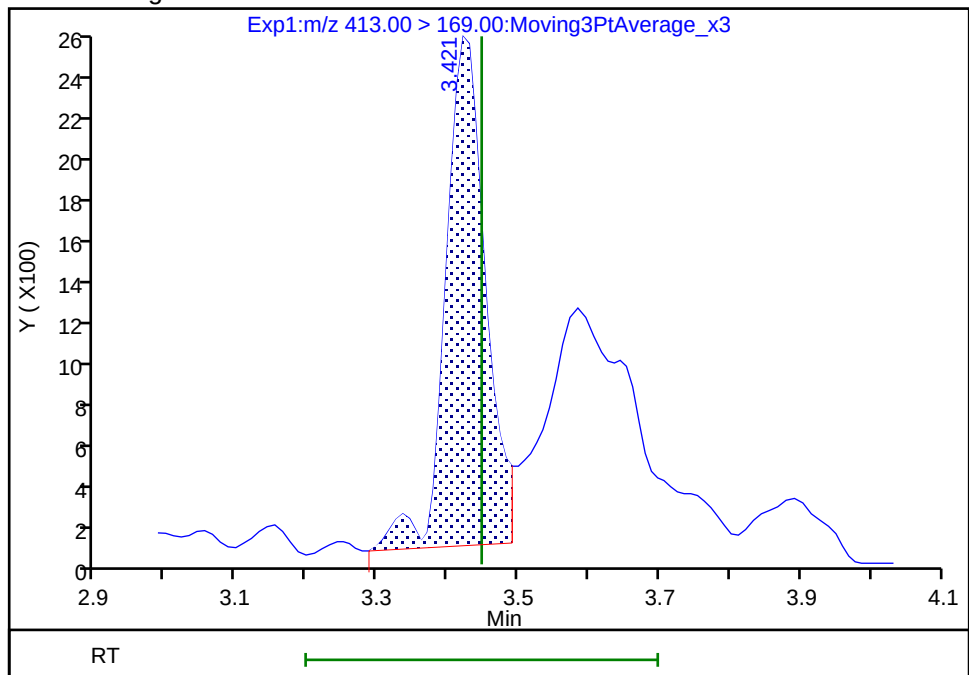
RT: 3.42
Area: 19376
Amount: 0.012016
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 9775
Amount: 0.012016
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:22:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

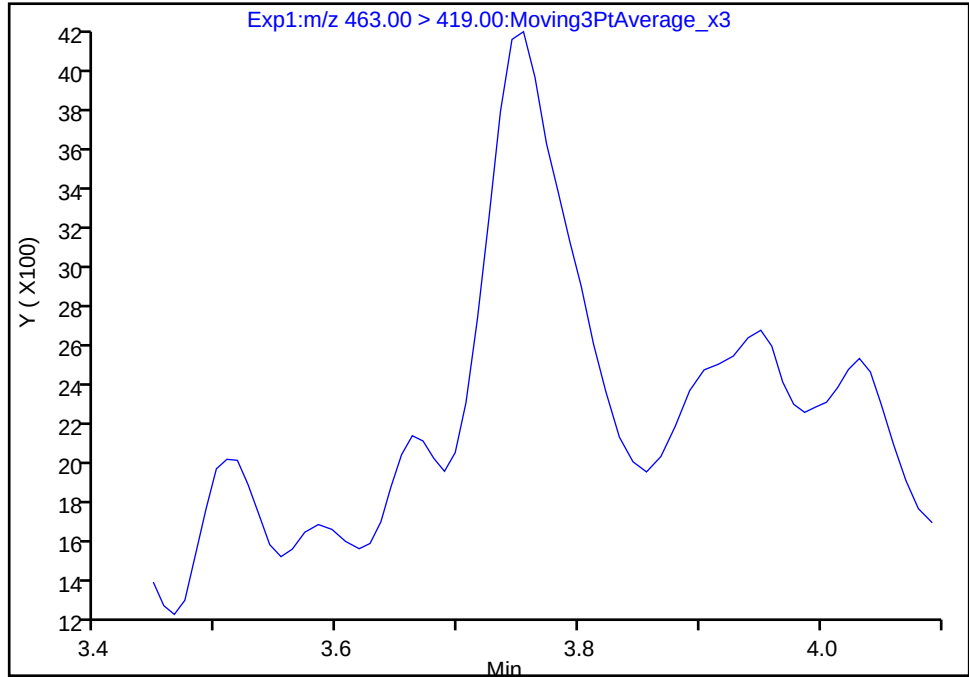
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

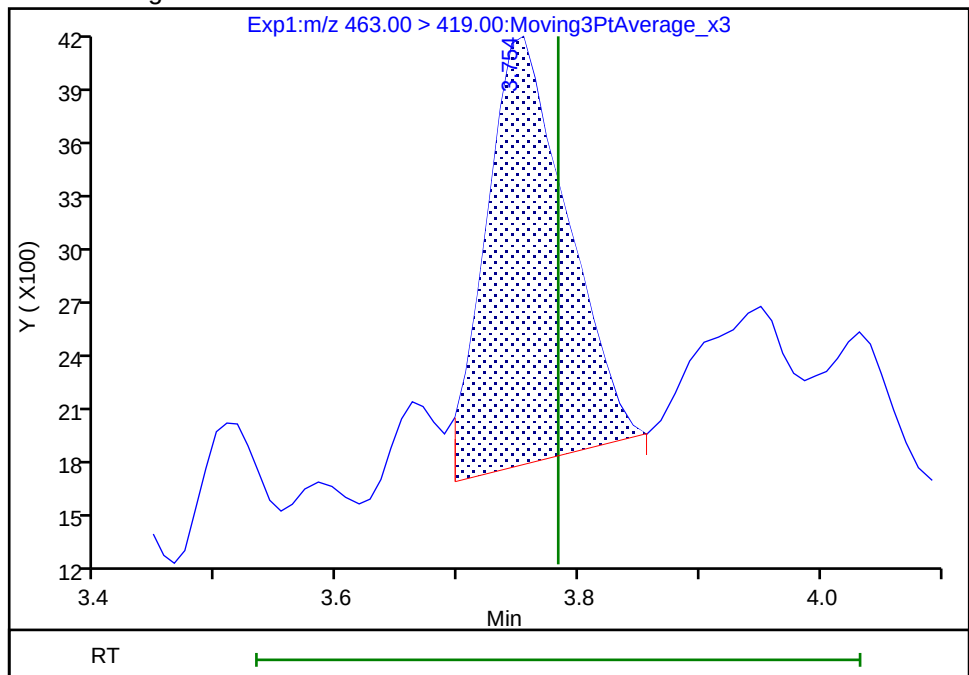
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:23:17

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

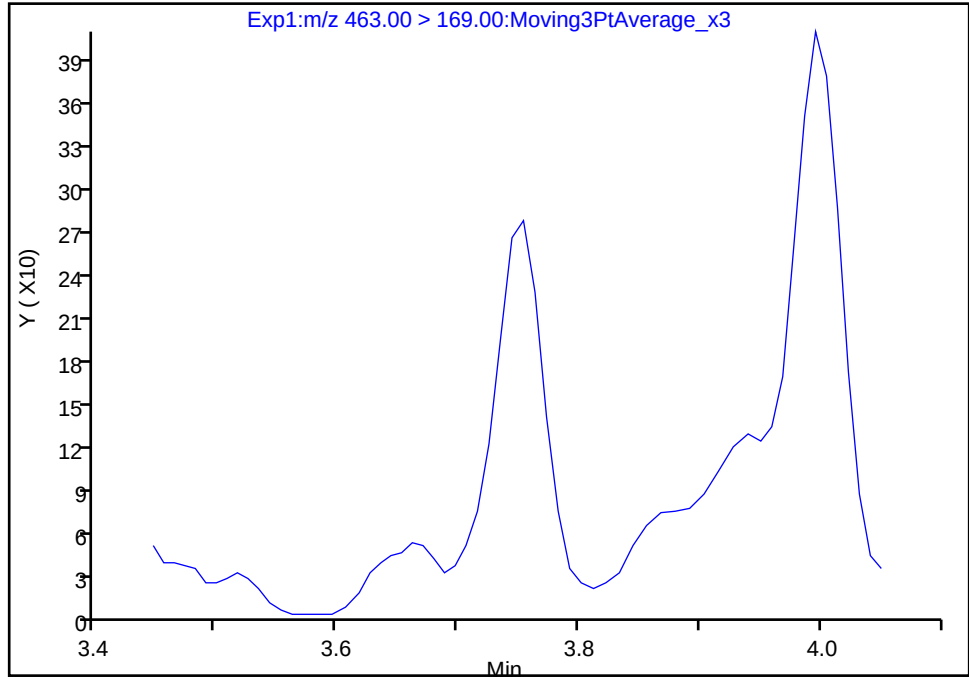
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

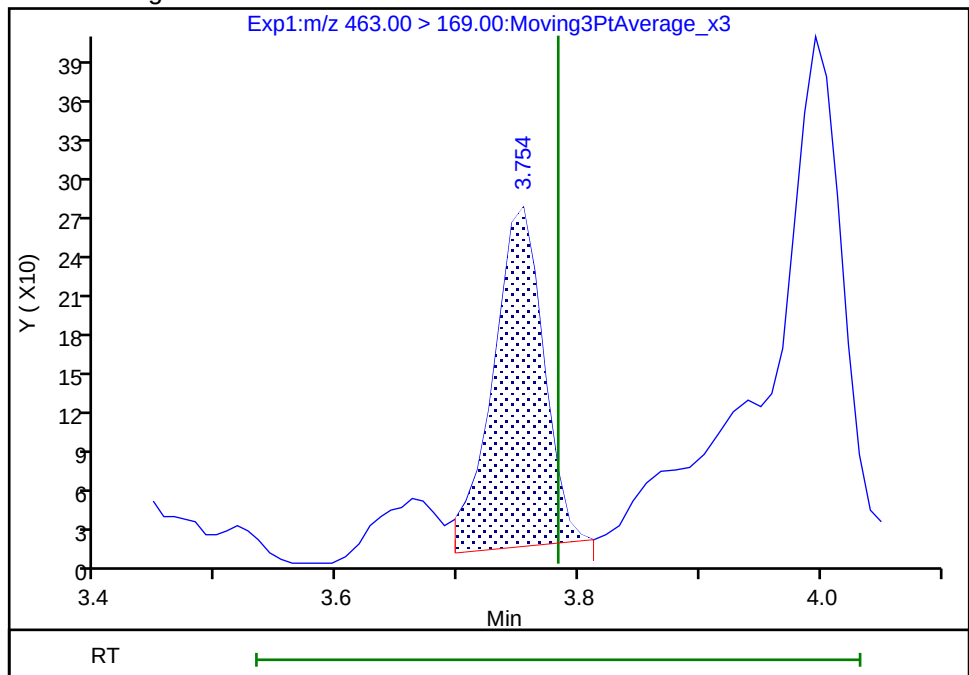
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 759
Amount: 0.004955
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:23:19

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 147 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

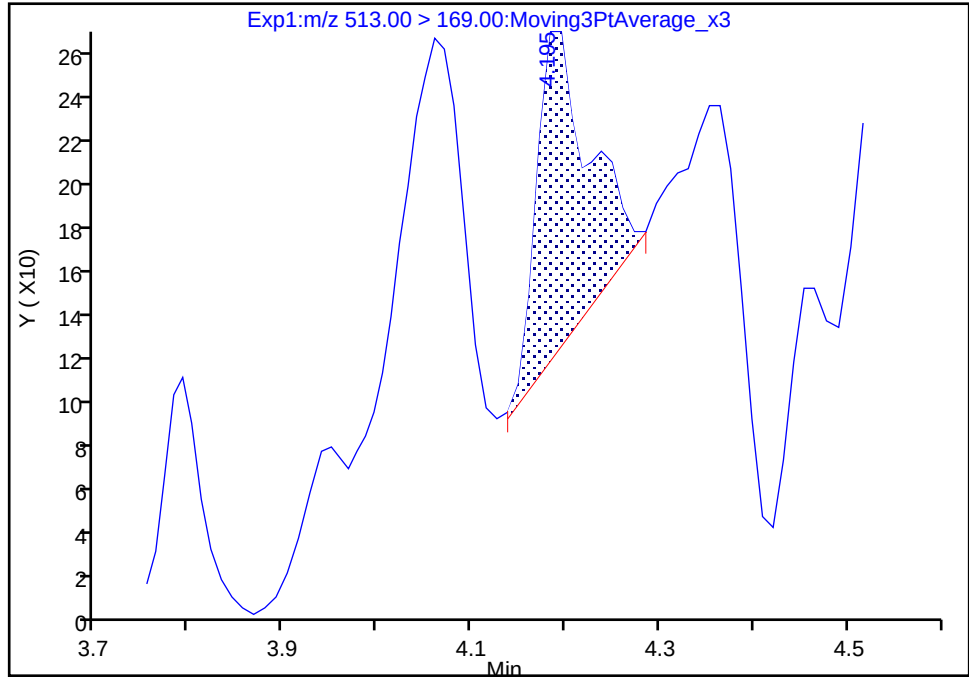
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

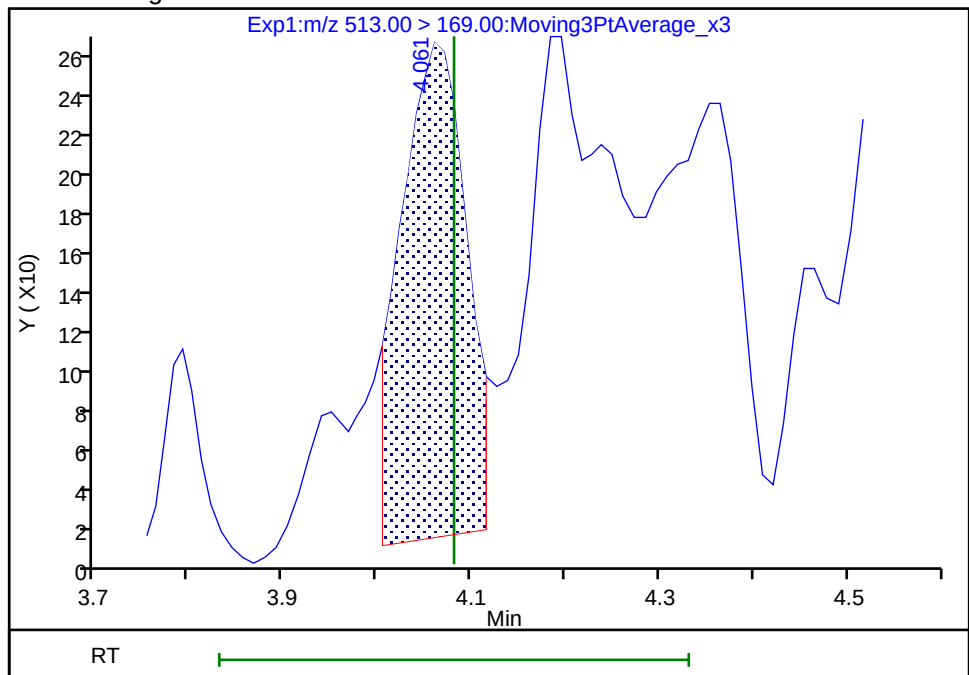
RT: 4.20
Area: 566
Amount: 0.000812
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 1202
Amount: 0.003322
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:23:42

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

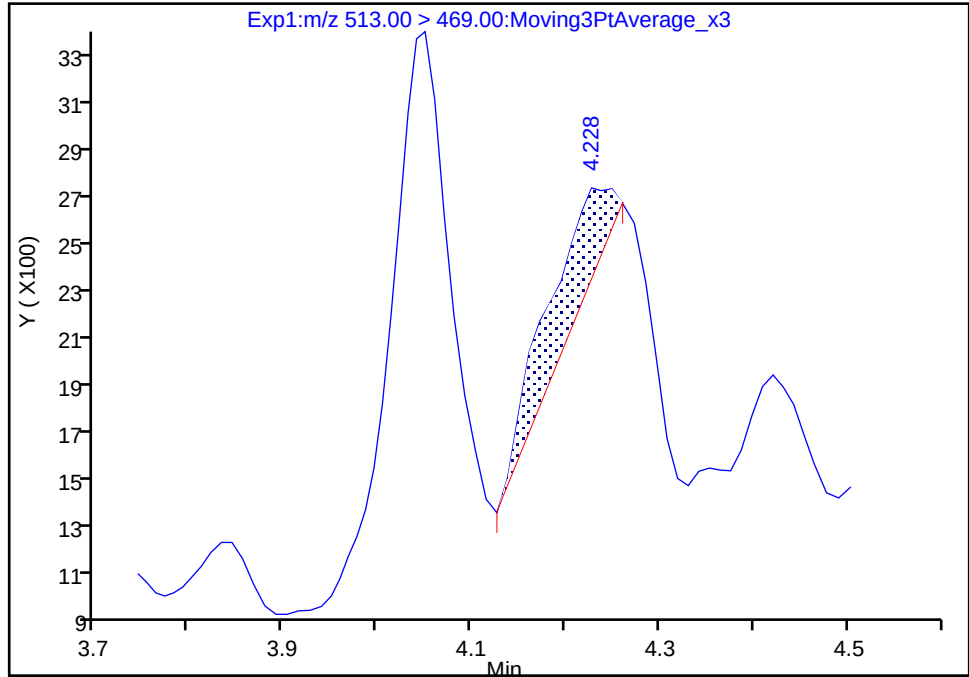
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

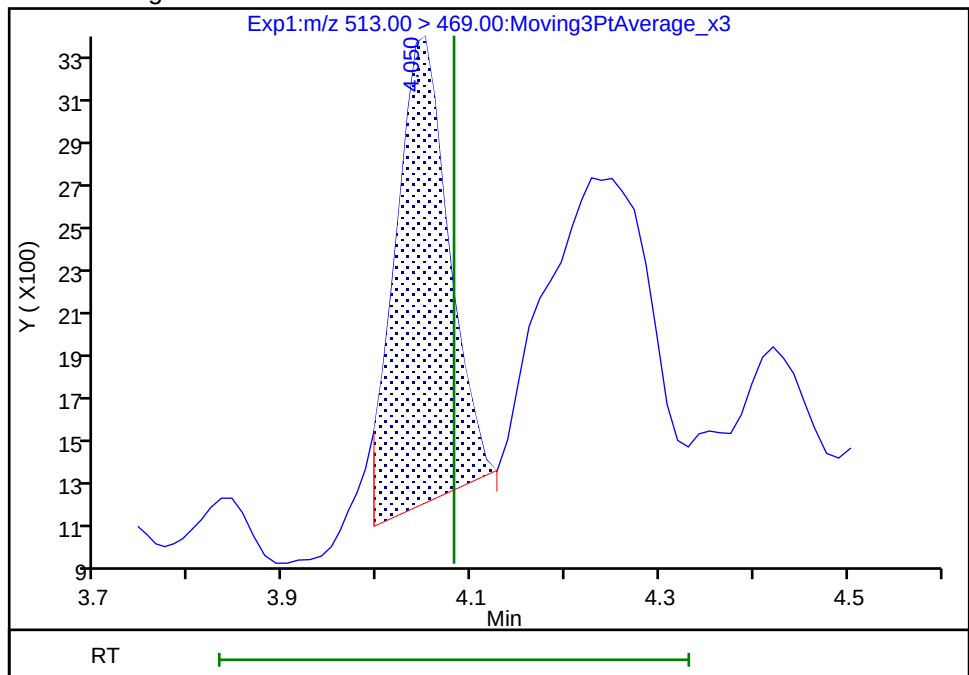
RT: 4.23
Area: 2013
Amount: 0.000812
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 8235
Amount: 0.003322
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:23:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

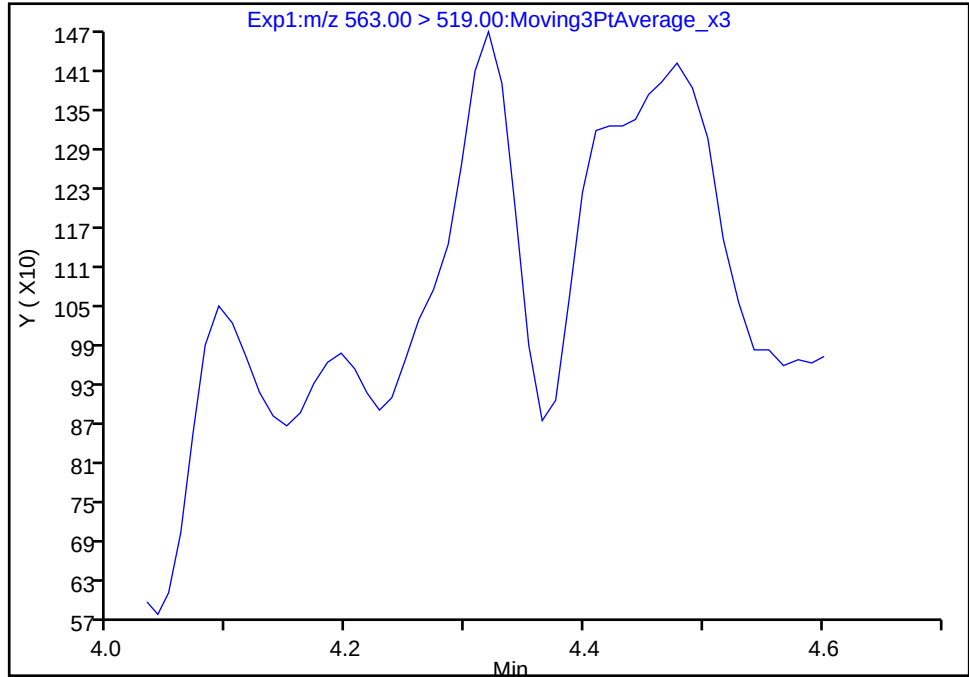
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

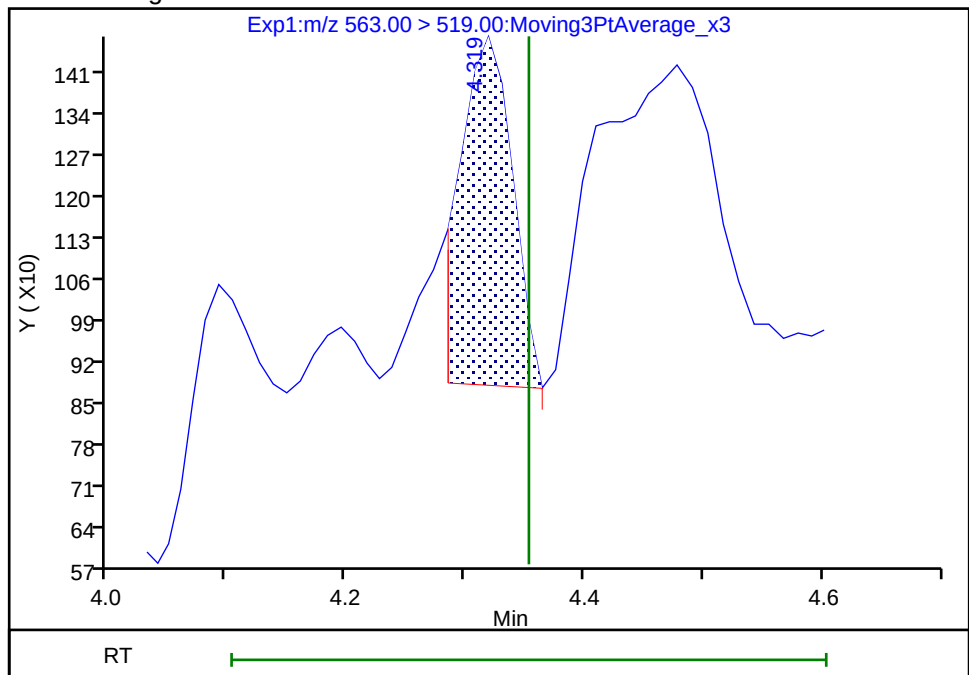
Not Detected
Expected RT: 4.35

Processing Integration Results



RT: 4.32
Area: 1747
Amount: 0.000874
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:24:54

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

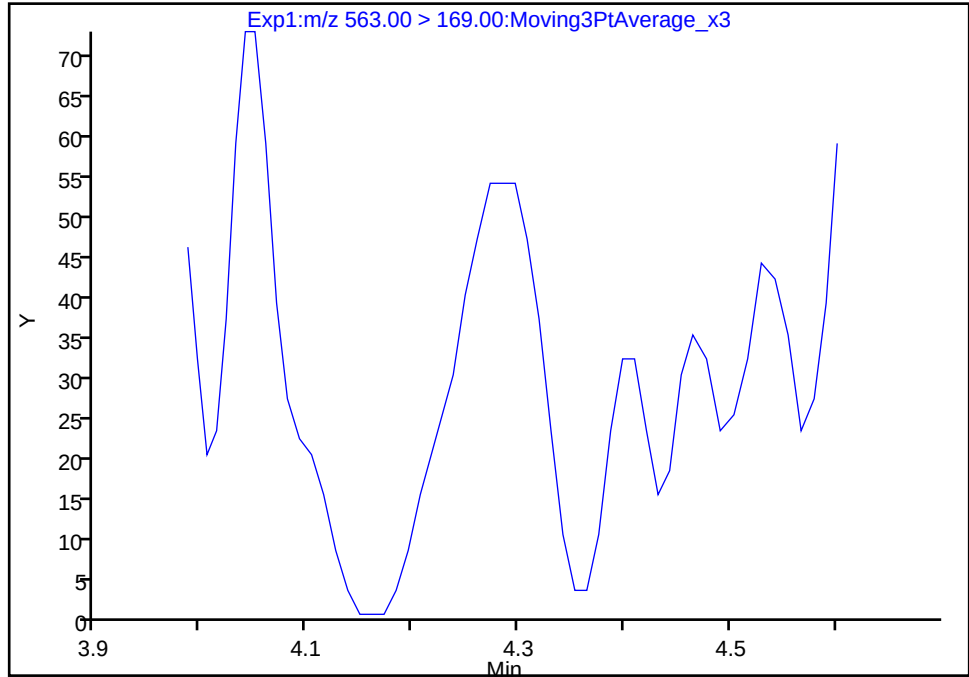
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

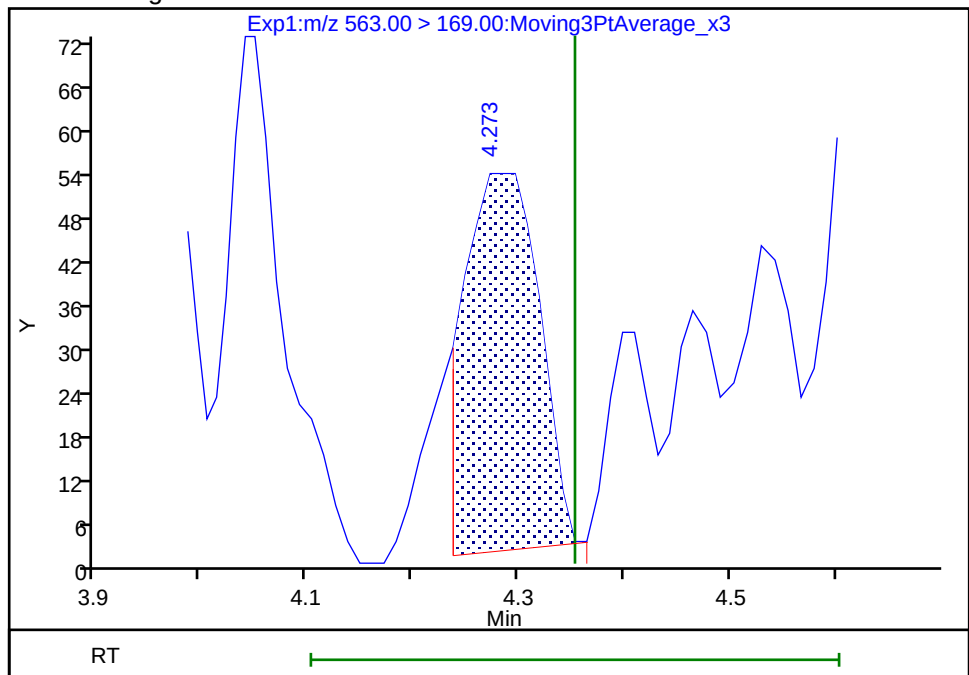
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.27
Area: 252
Amount: 0.000874
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:24:56

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

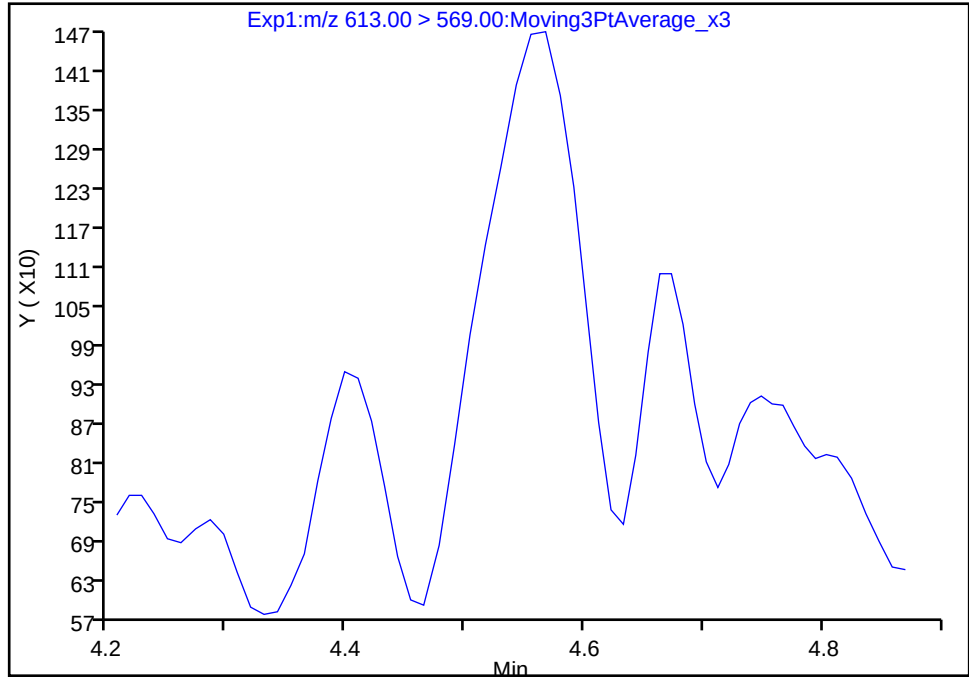
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

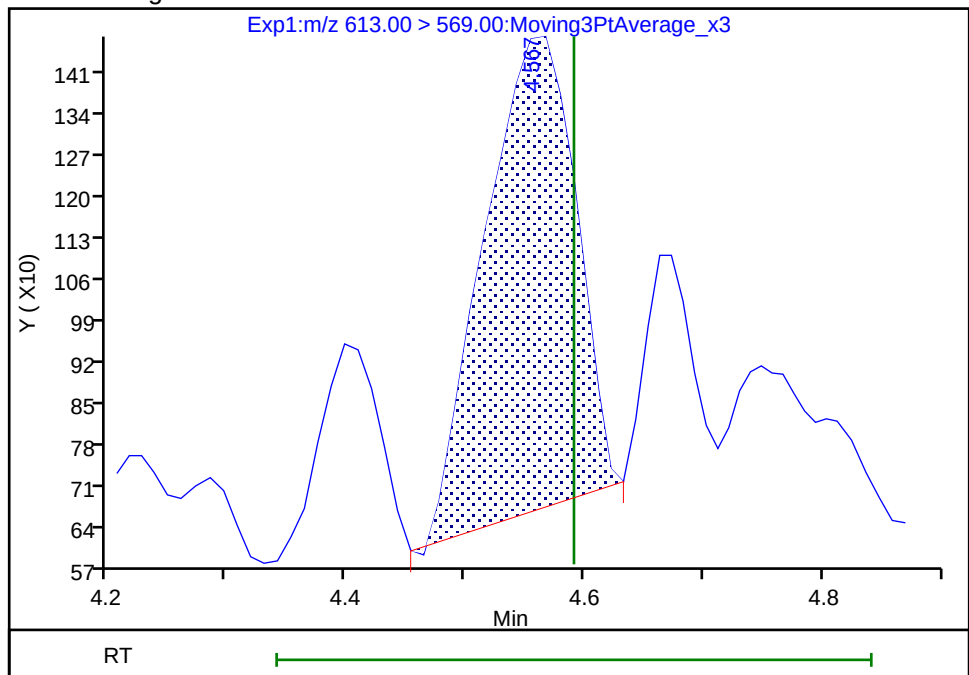
Not Detected
Expected RT: 4.59

Processing Integration Results



RT: 4.57
Area: 4268
Amount: 0.001985
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:25:18

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

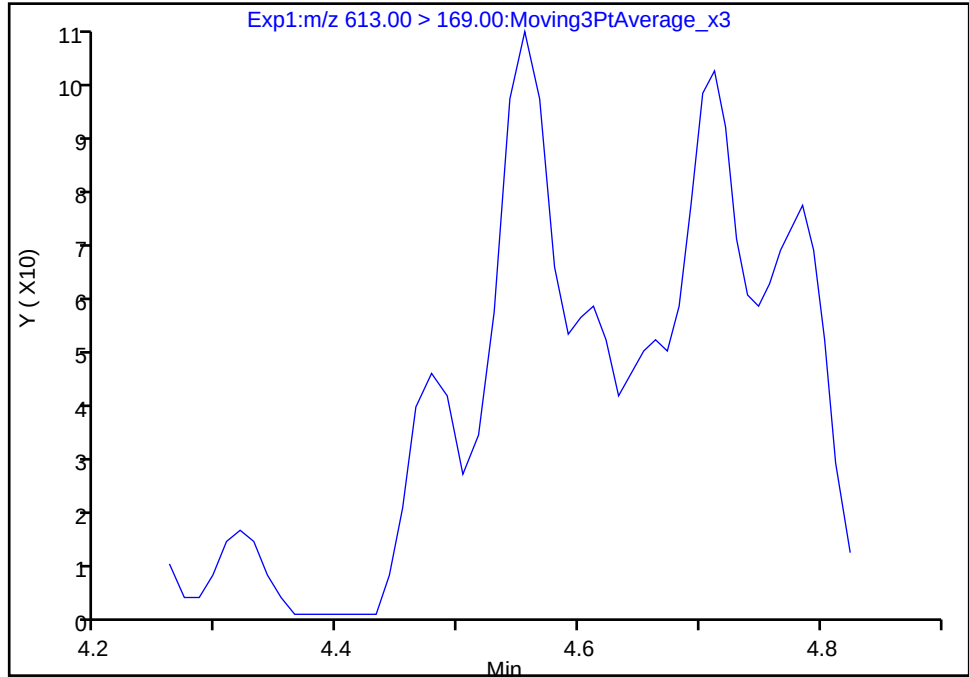
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

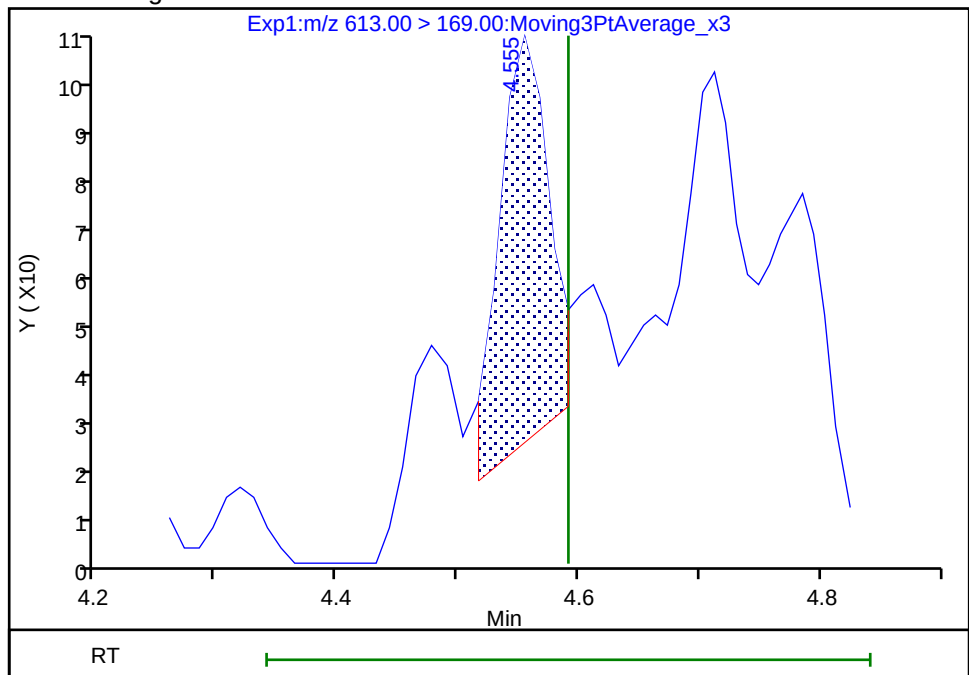
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 225
Amount: 0.001985
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:25:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 153 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

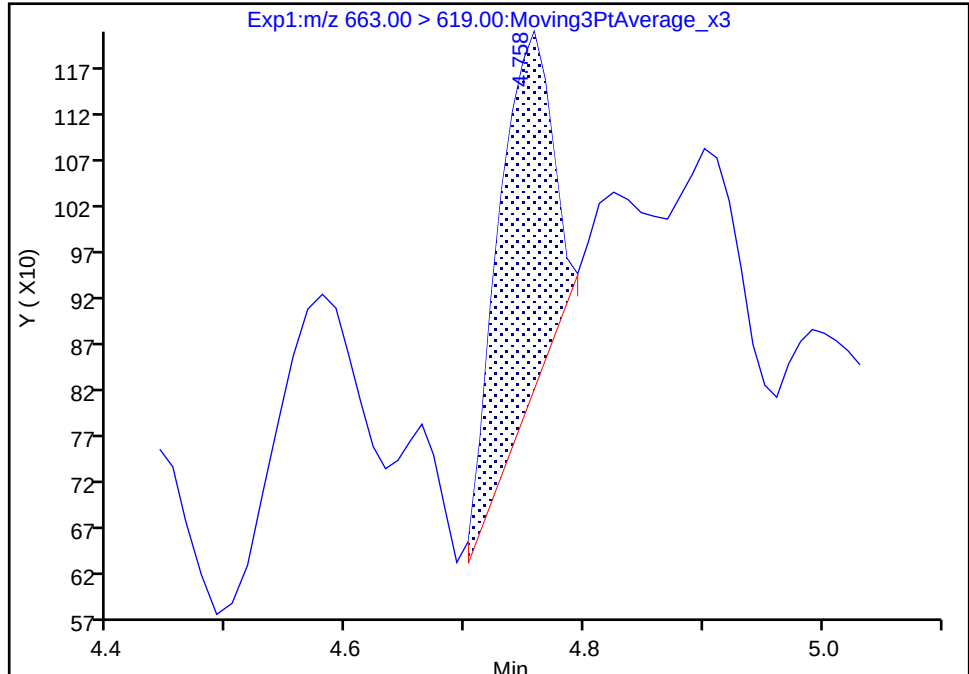
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

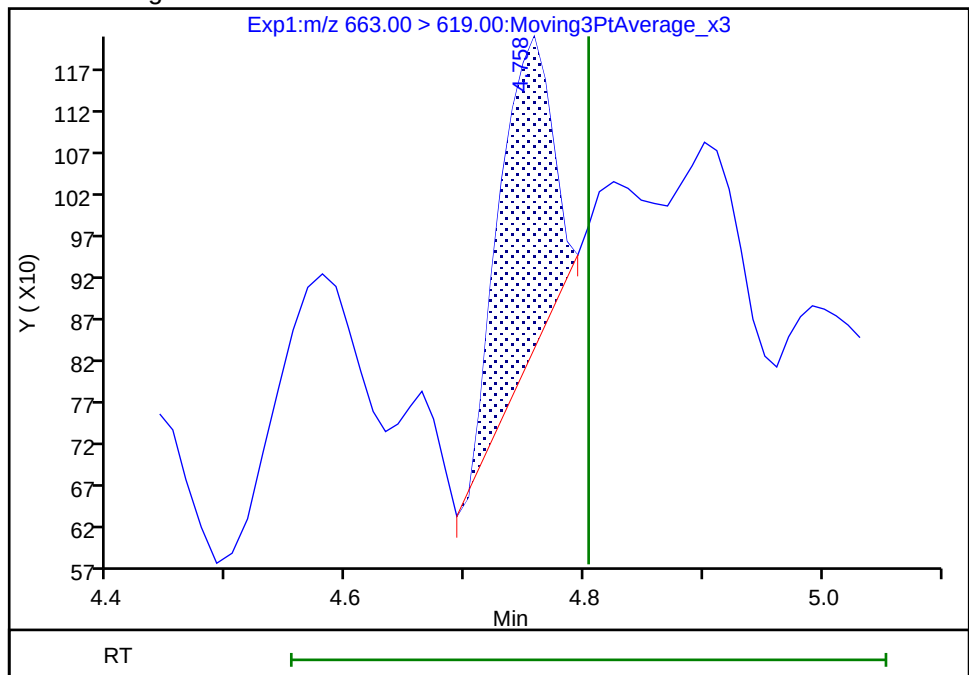
RT: 4.76
Area: 1255
Amount: 0.000610
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 1170
Amount: 0.000569
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:25:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

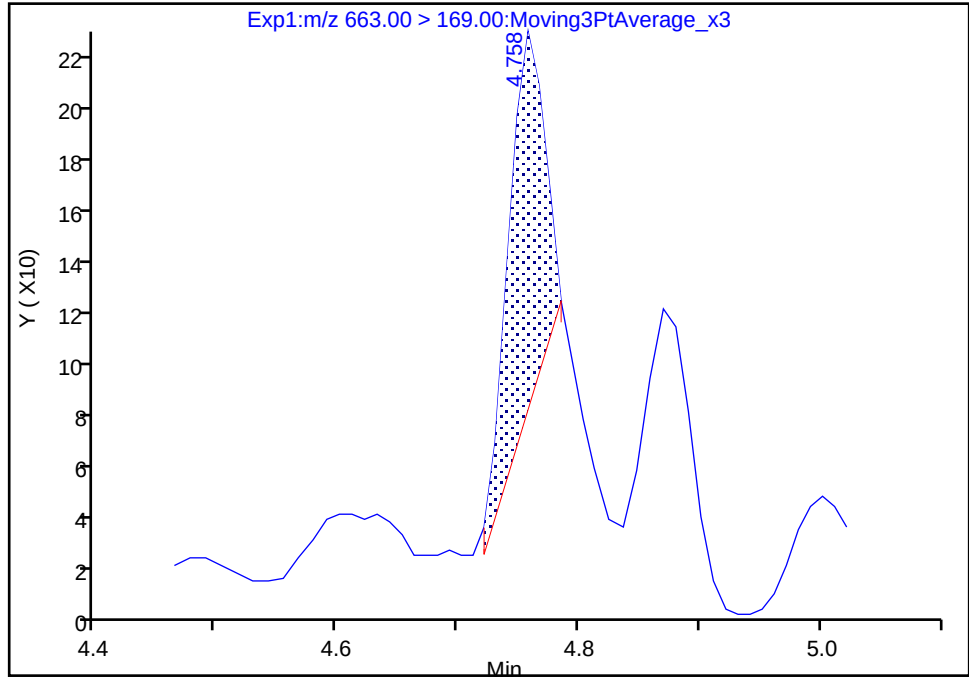
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

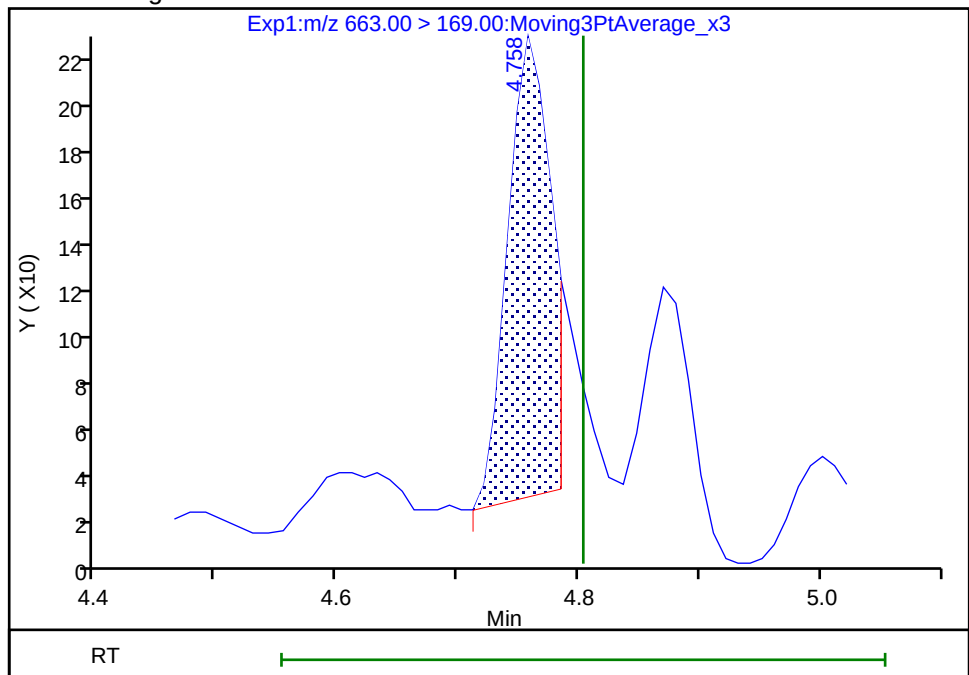
RT: 4.76
Area: 306
Amount: 0.000610
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 479
Amount: 0.000569
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:25:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

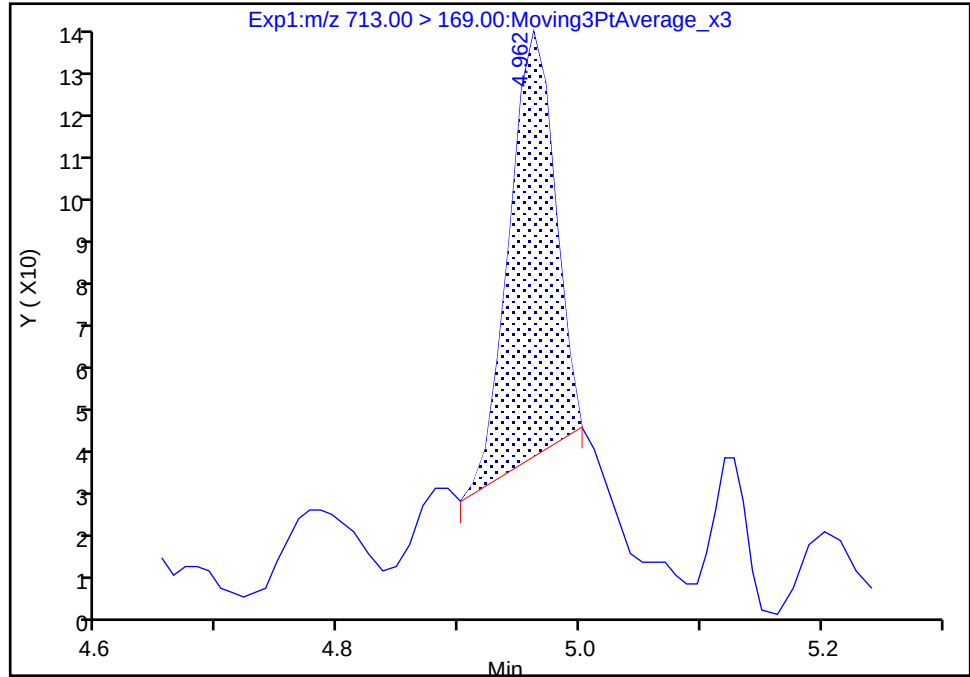
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

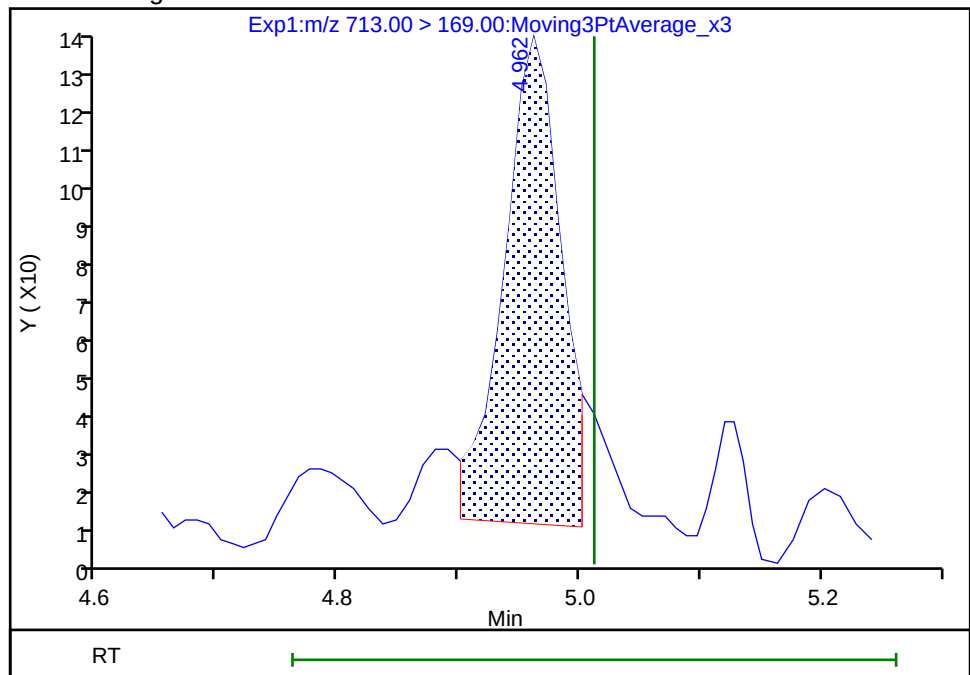
RT: 4.96
Area: 256
Amount: 0.000944
Amount Units: ng/ml

Processing Integration Results



RT: 4.96
Area: 405
Amount: 0.001493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:26:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

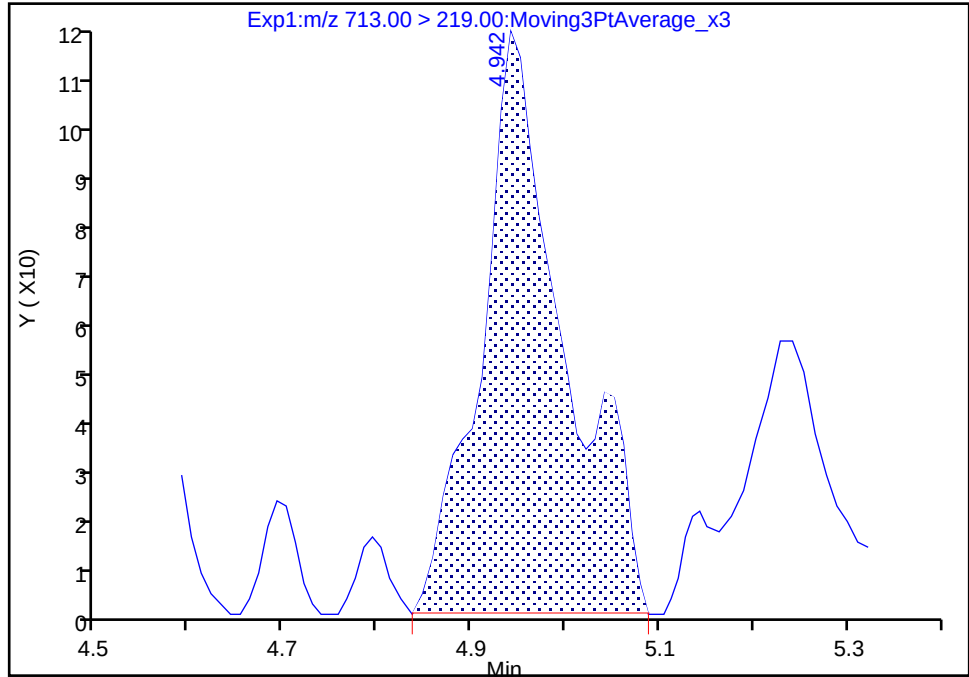
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

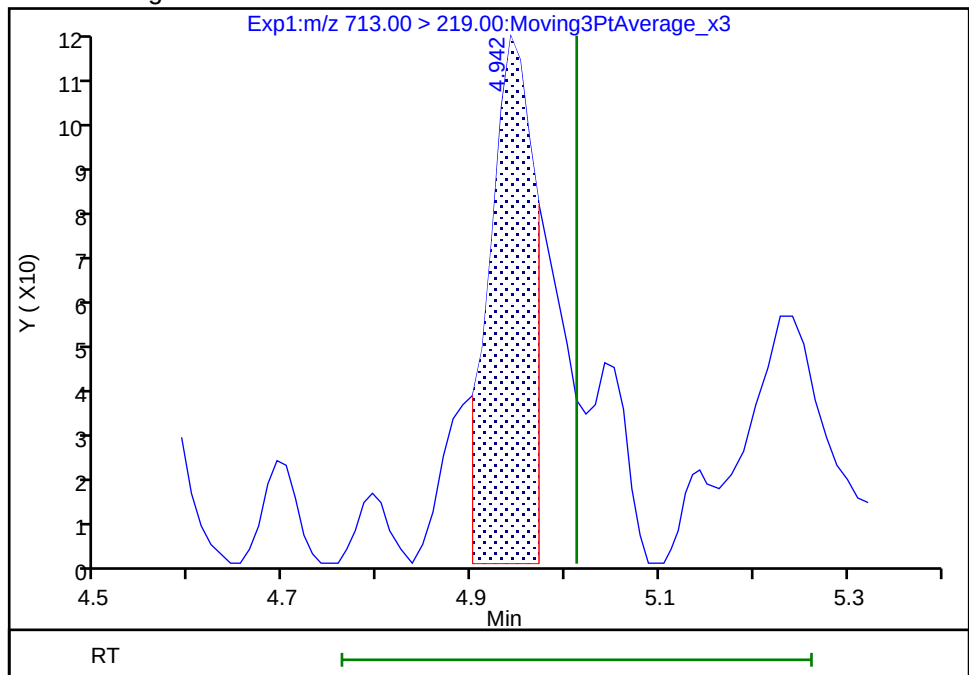
RT: 4.94
Area: 695
Amount: 0.000944
Amount Units: ng/ml

Processing Integration Results



RT: 4.94
Area: 351
Amount: 0.001493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:26:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 157 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

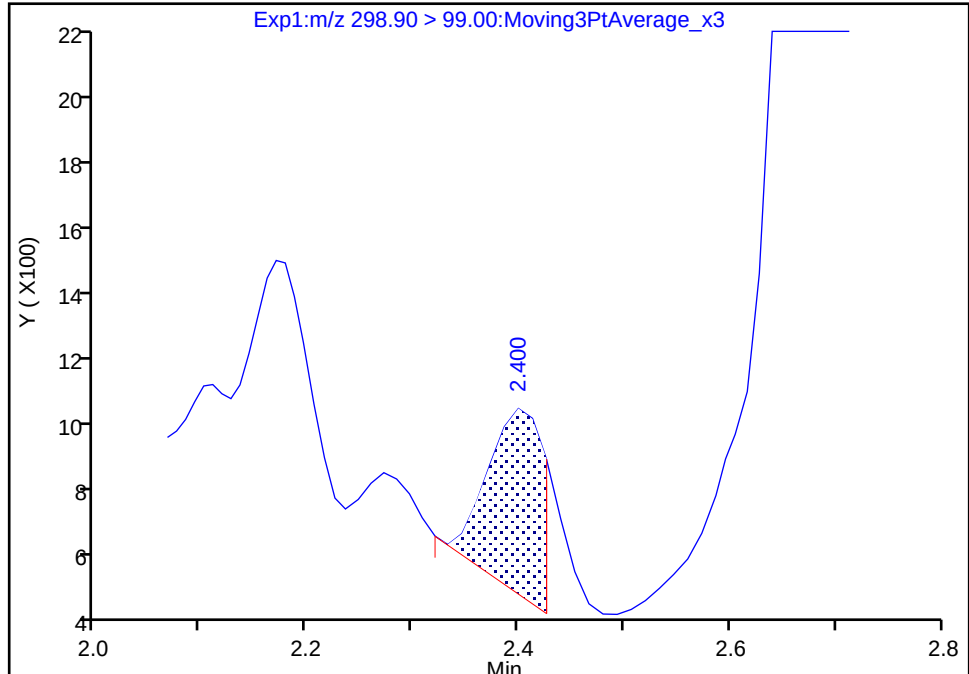
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

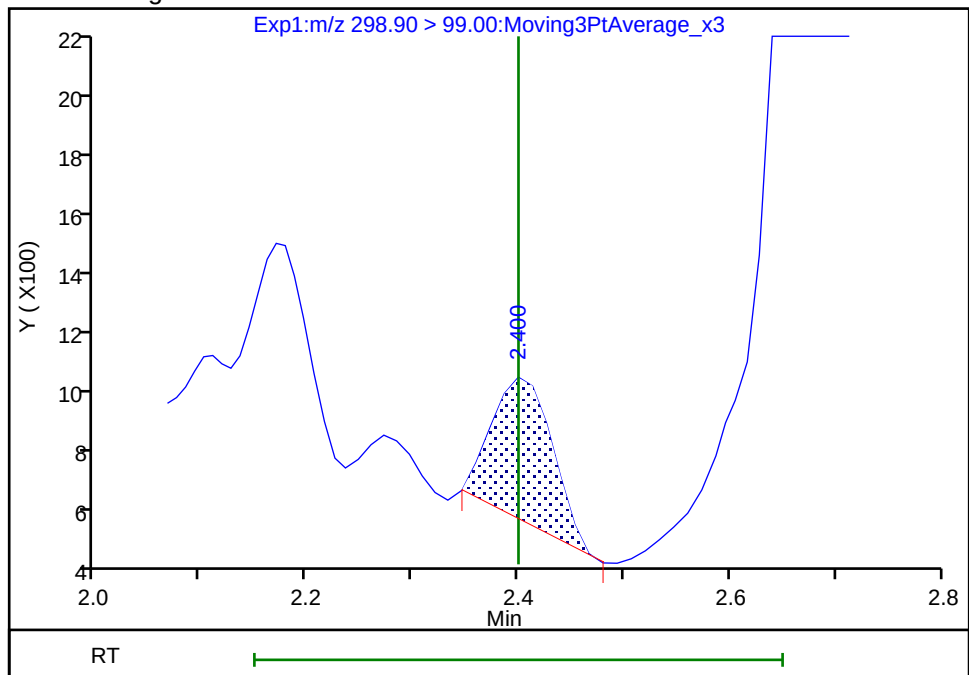
RT: 2.40
Area: 1823
Amount: 0.001542
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1795
Amount: 0.001900
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:20:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

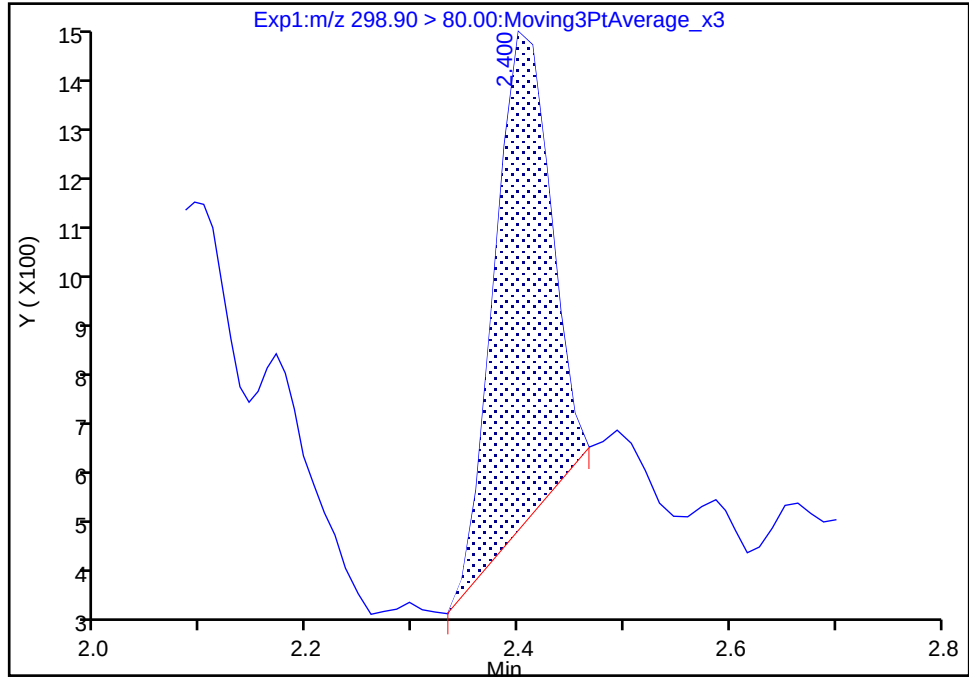
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

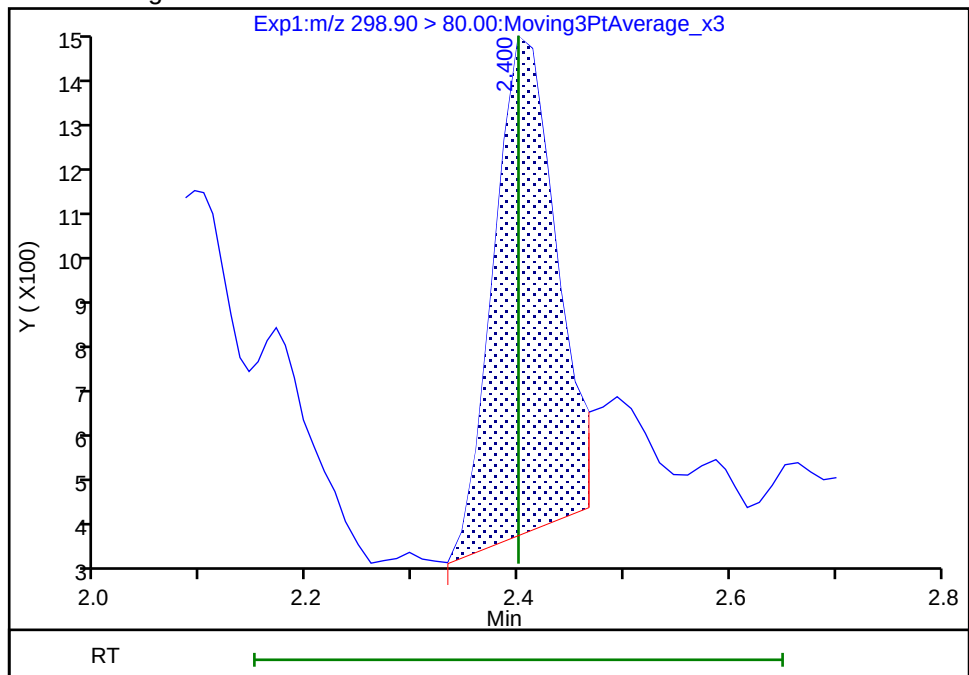
RT: 2.40
Area: 3190
Amount: 0.001542
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 3931
Amount: 0.001900
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:20:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

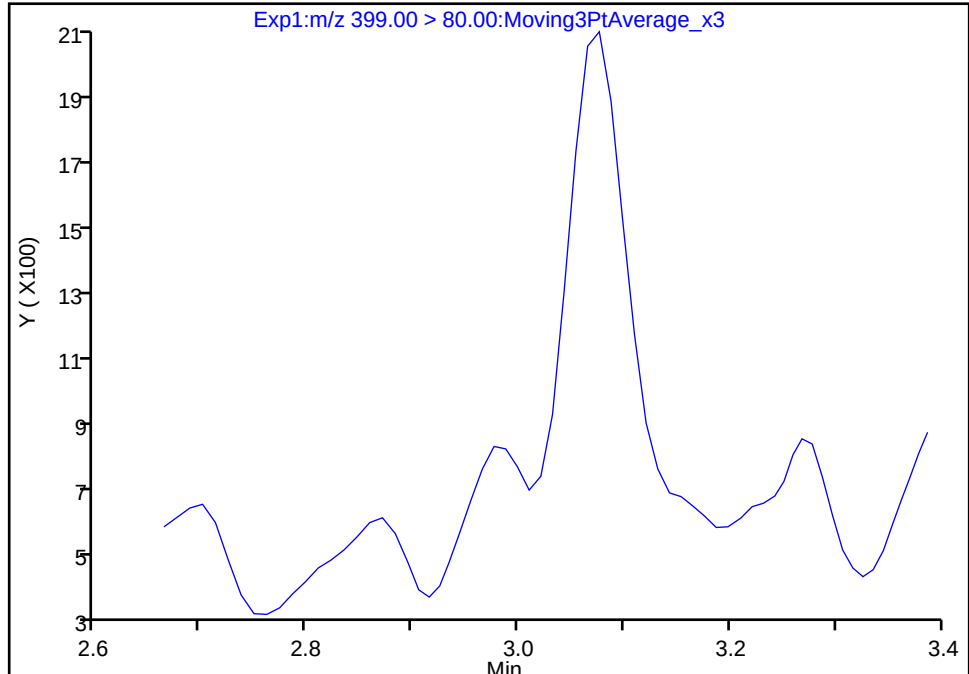
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

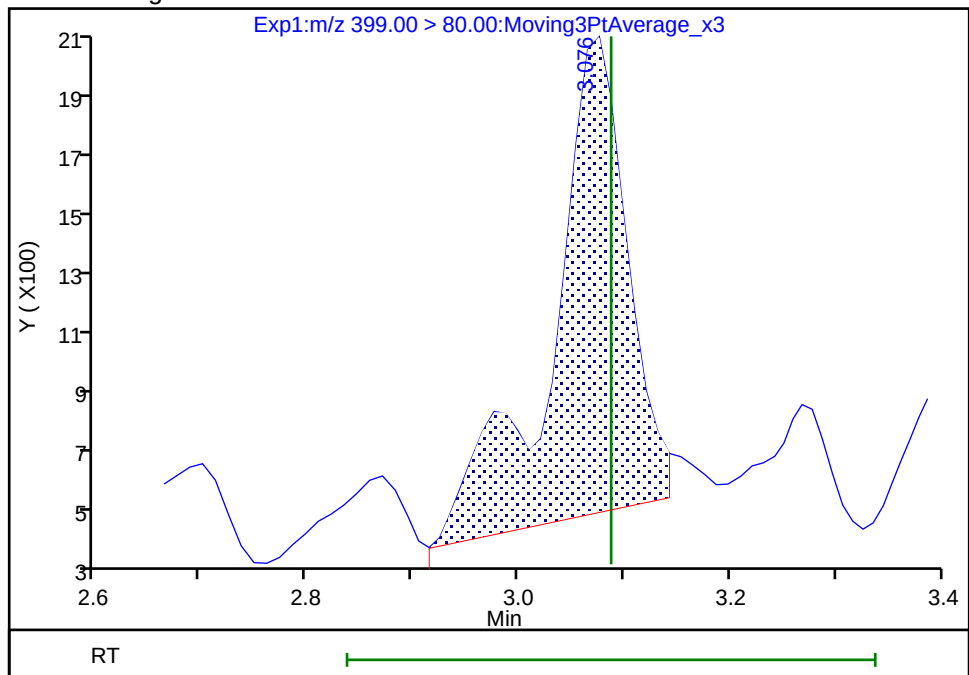
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 7556
Amount: 0.004893
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:21:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

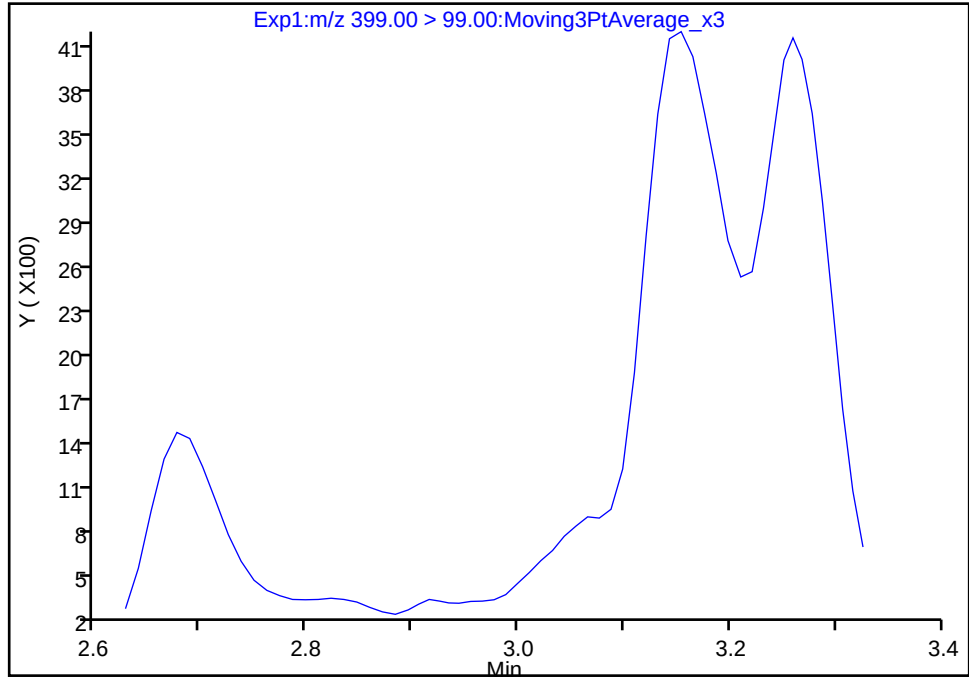
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

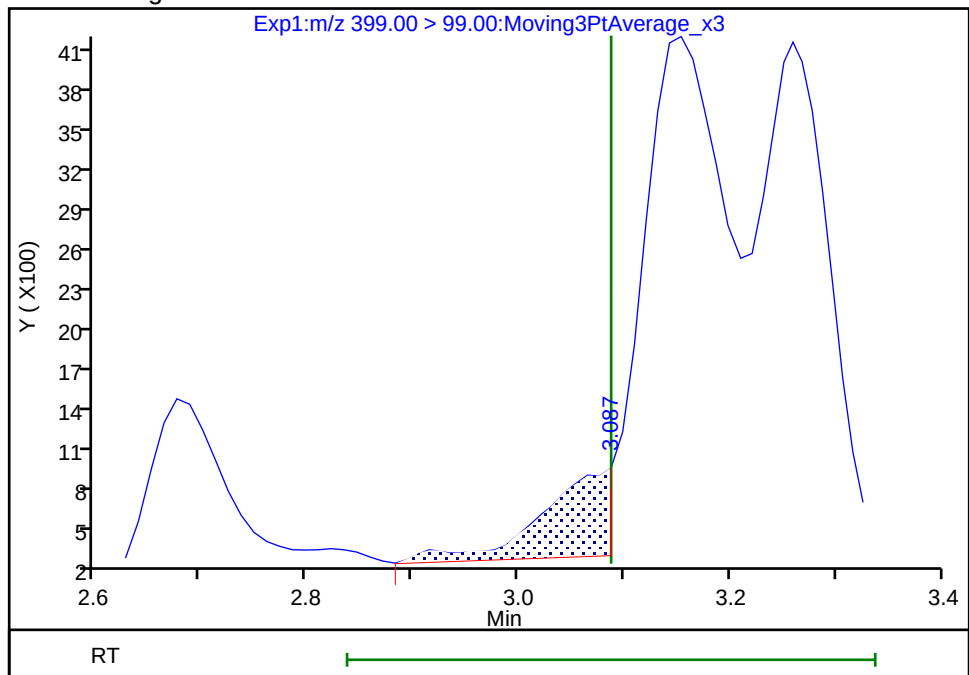
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2819
Amount: 0.004893
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:21:36

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 161 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

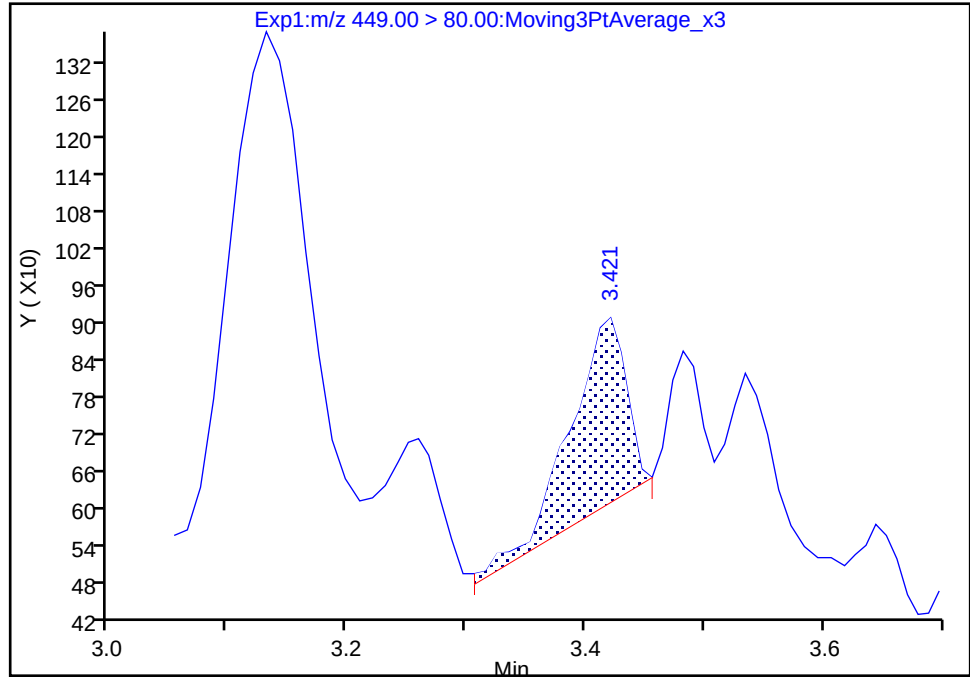
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

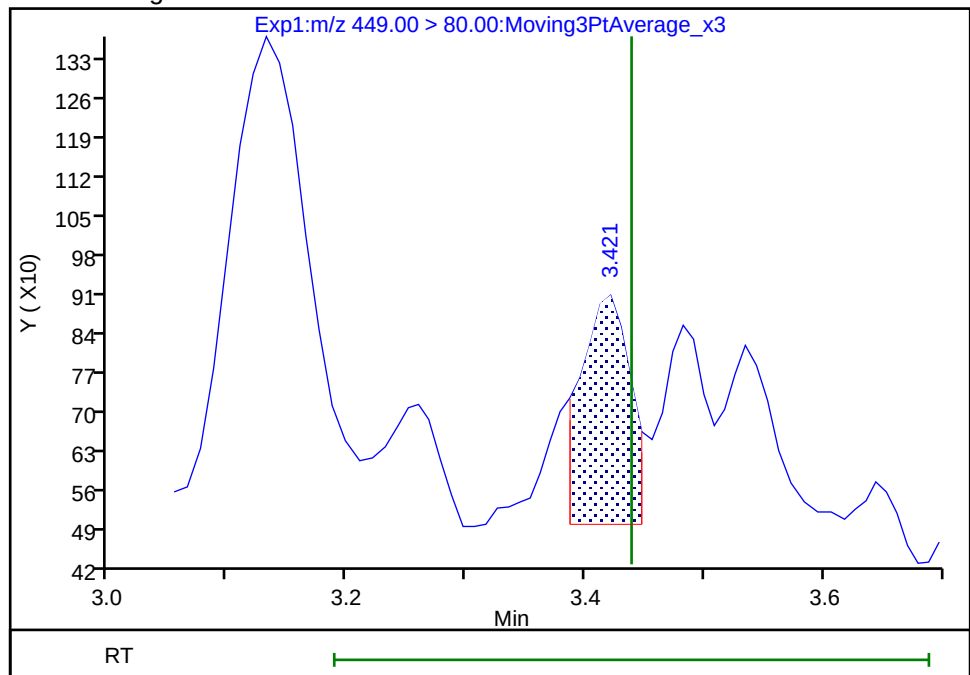
RT: 3.42
Area: 988
Amount: 0.000812
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 1138
Amount: 0.000935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:22:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

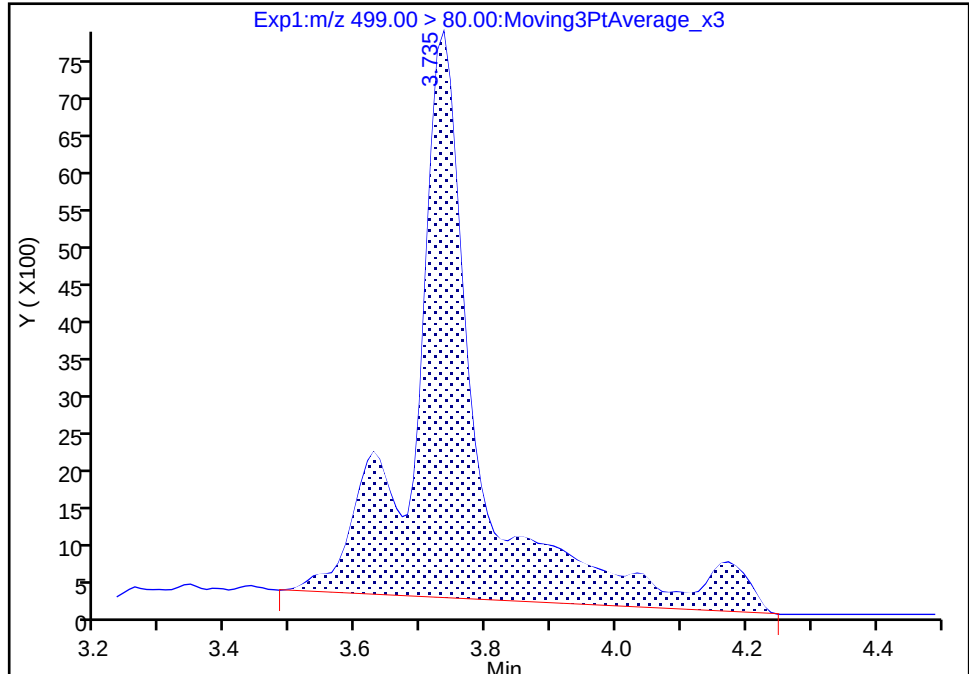
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

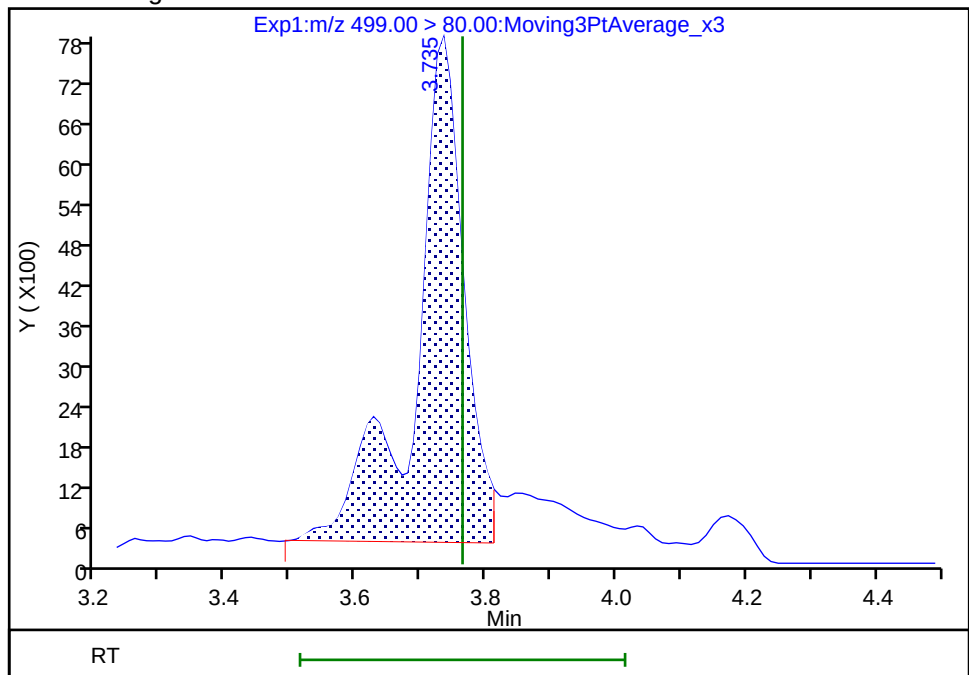
RT: 3.73
Area: 53917
Amount: 0.050888
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 39371
Amount: 0.037159
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:22:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

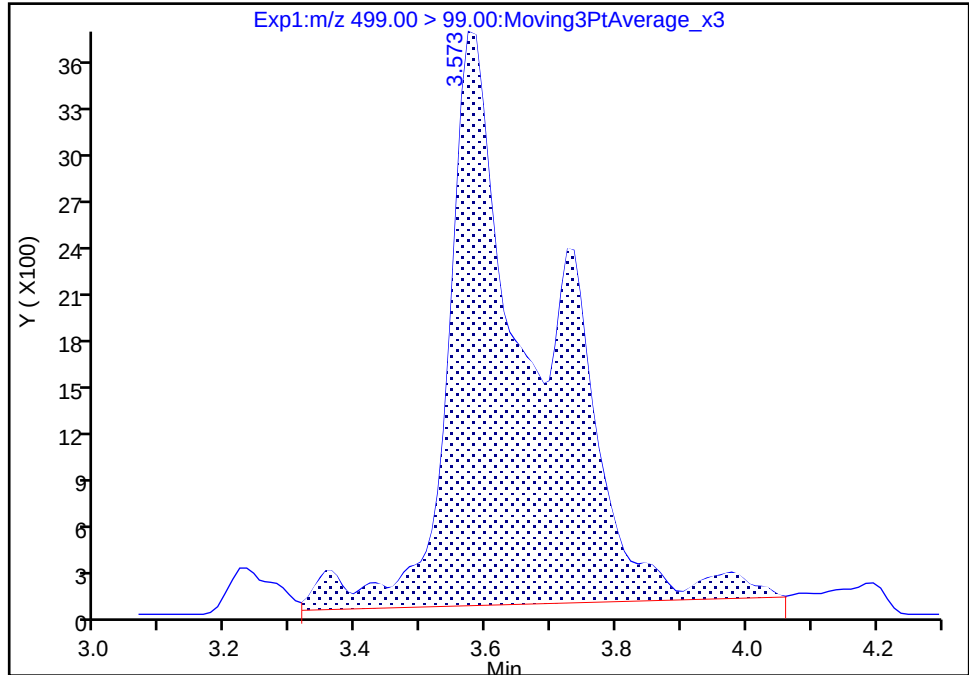
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

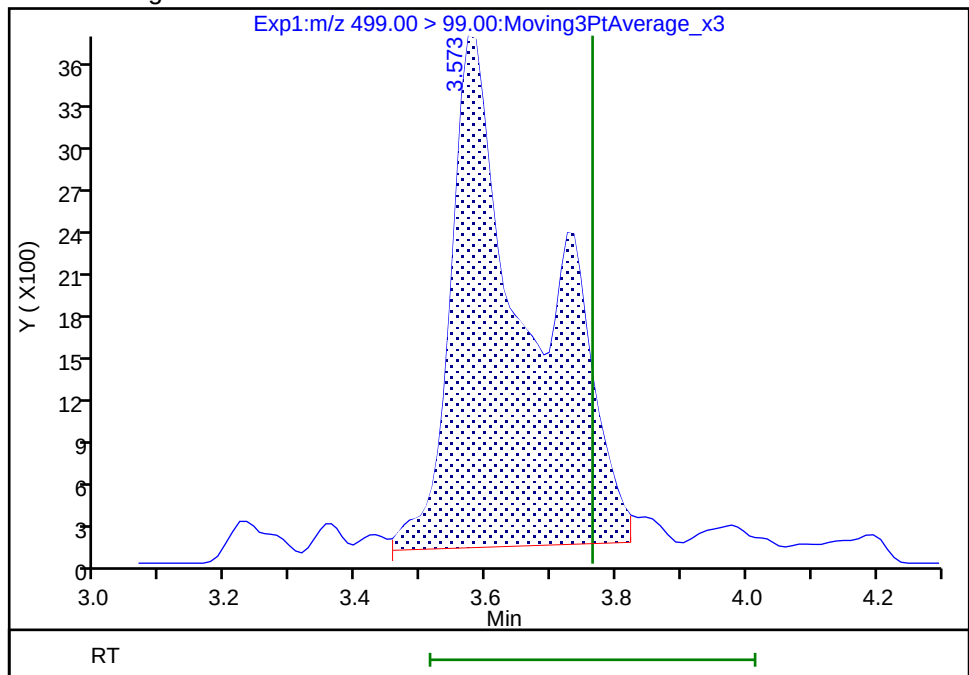
RT: 3.57
Area: 36450
Amount: 0.050888
Amount Units: ng/ml

Processing Integration Results



RT: 3.57
Area: 32369
Amount: 0.037159
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:22:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 164 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

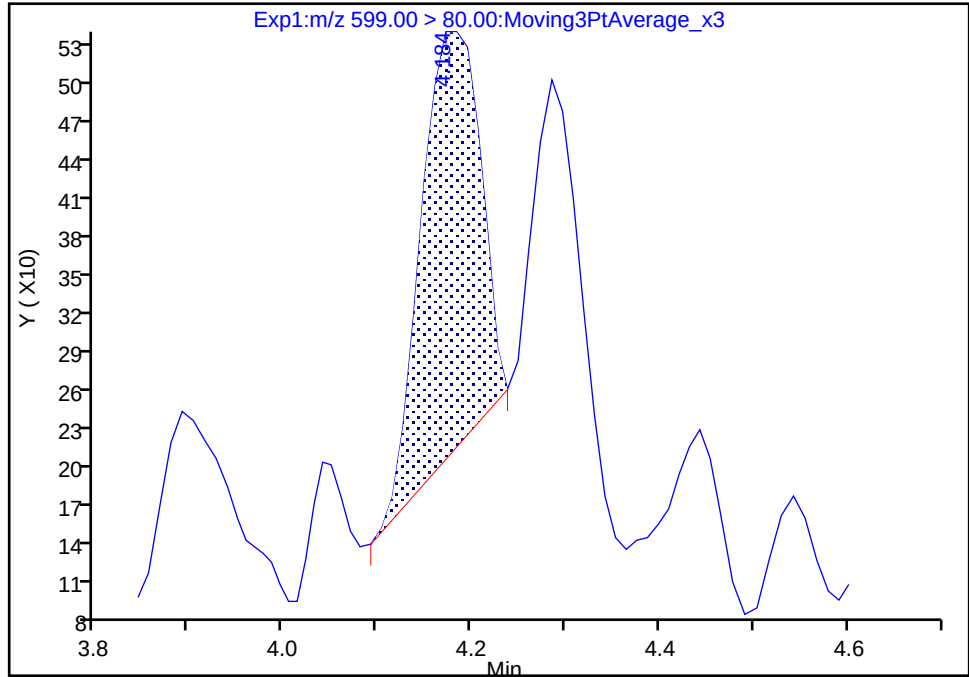
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

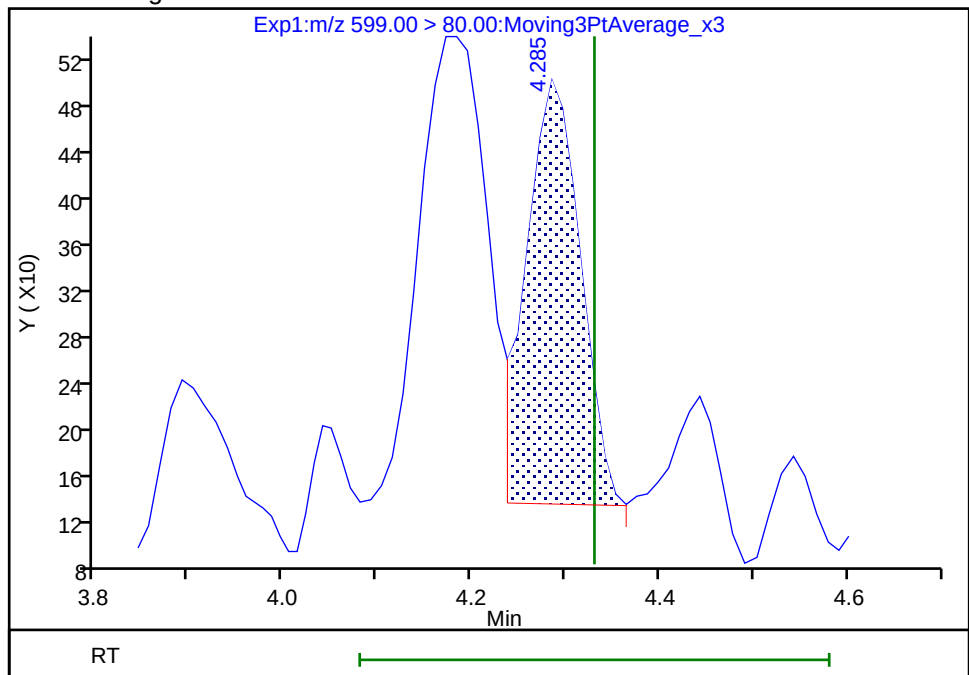
RT: 4.18
Area: 1422
Amount: 0.002252
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 1423
Amount: 0.002254
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:24:35
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

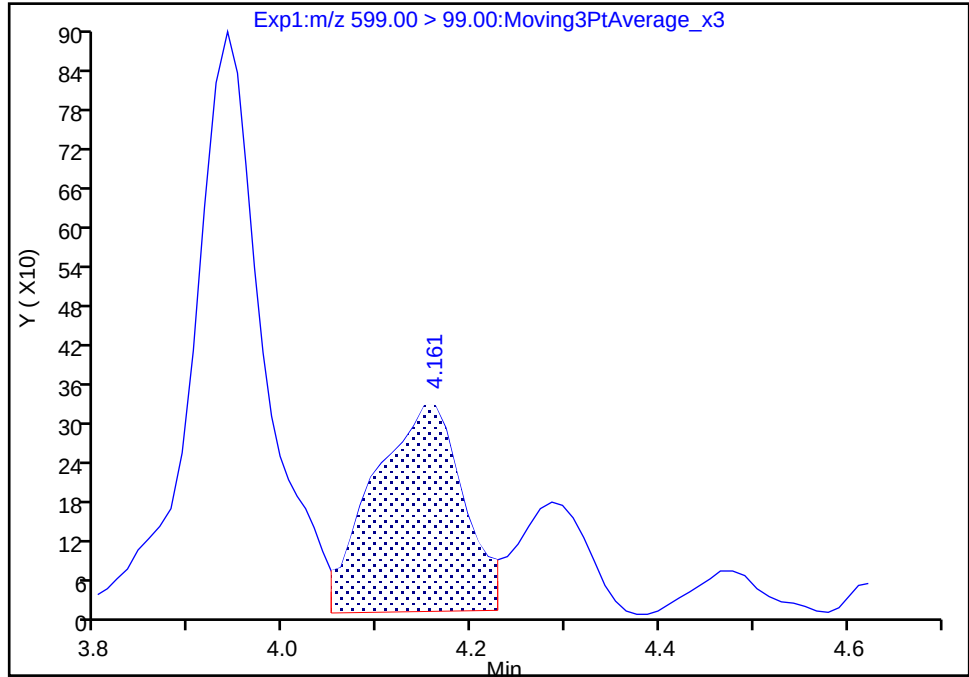
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

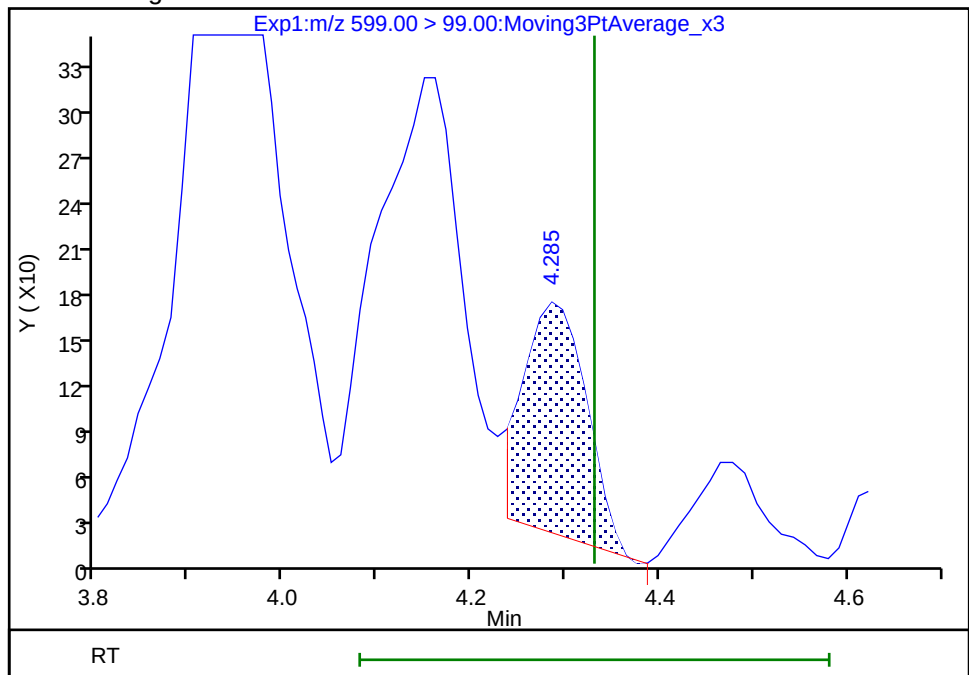
RT: 4.16
Area: 2064
Amount: 0.002252
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 701
Amount: 0.002254
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:24:38

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

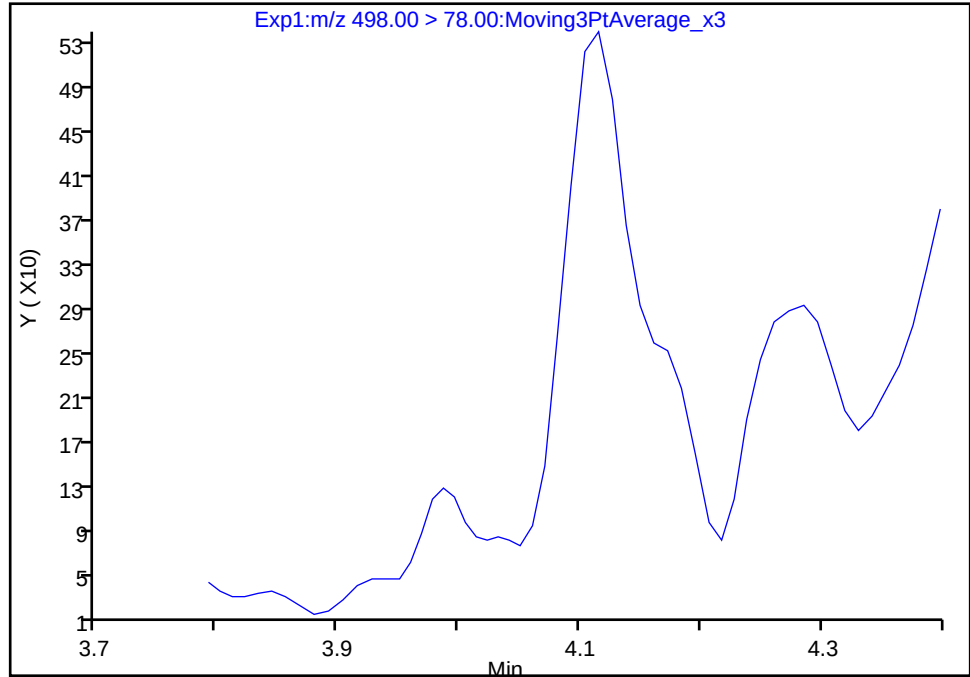
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d
Injection Date: 30-Dec-2022 15:12:05 Instrument ID: LC812
Lims ID: 460-271837-A-3-A Lab Sample ID: 200-271837-3
Client ID: BCS-21-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

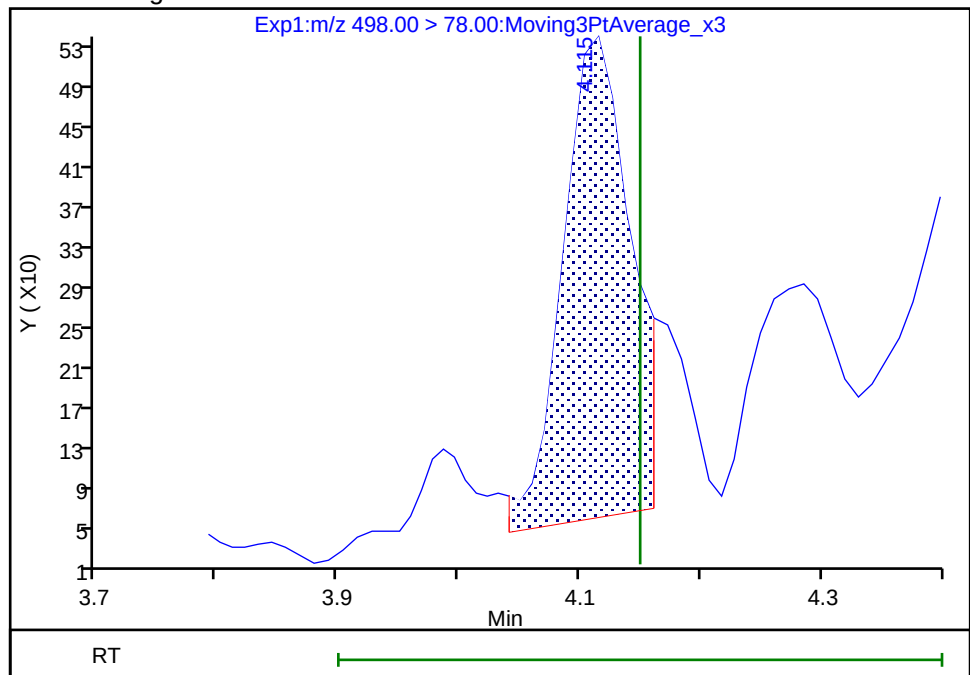
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 1842
Amount: 0.001230
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:24:15

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

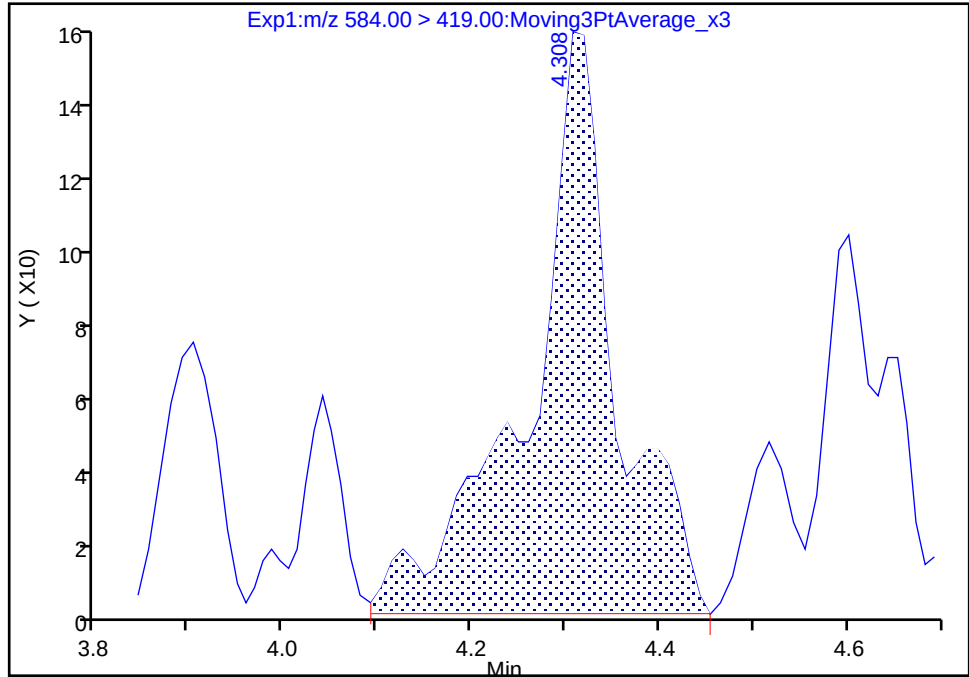
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

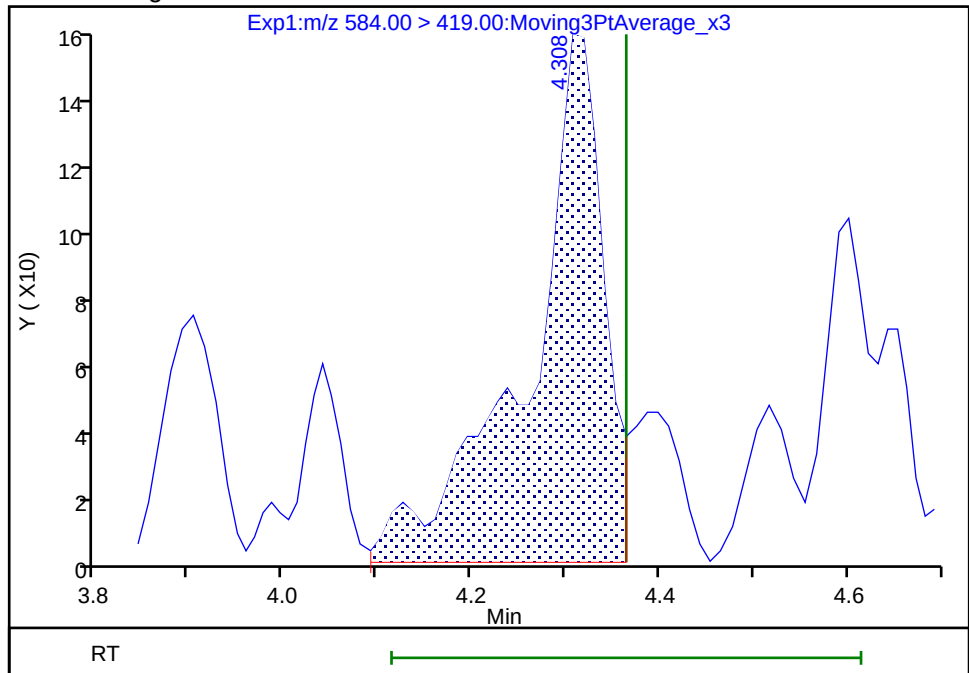
RT: 4.31
Area: 1004
Amount: 0.002747
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 848
Amount: 0.002320
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:25:02
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

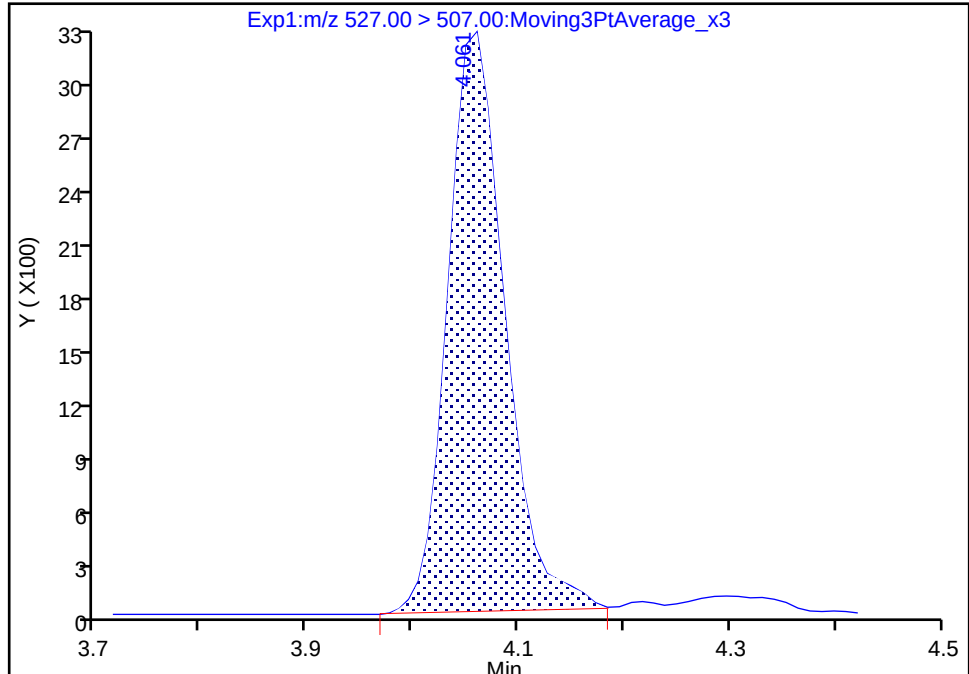
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

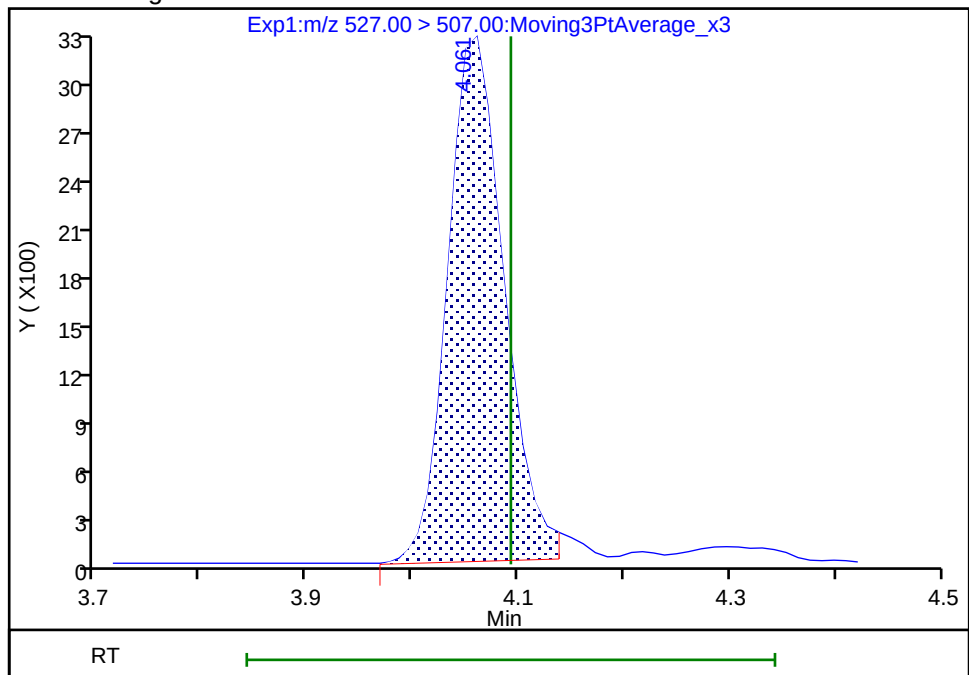
RT: 4.06
Area: 12243
Amount: 0.022860
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 12026
Amount: 0.022643
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:23:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

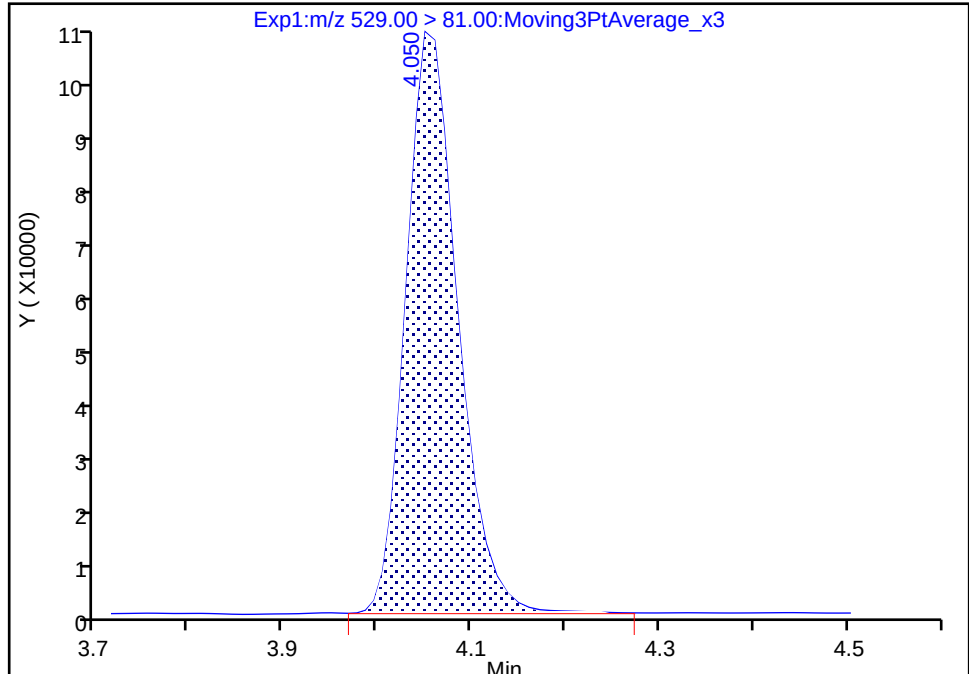
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A19.d				
Injection Date:	30-Dec-2022 15:12:05	Instrument ID:	LC812		
Lims ID:	460-271837-A-3-A	Lab Sample ID:	200-271837-3		
Client ID:	BCS-21-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

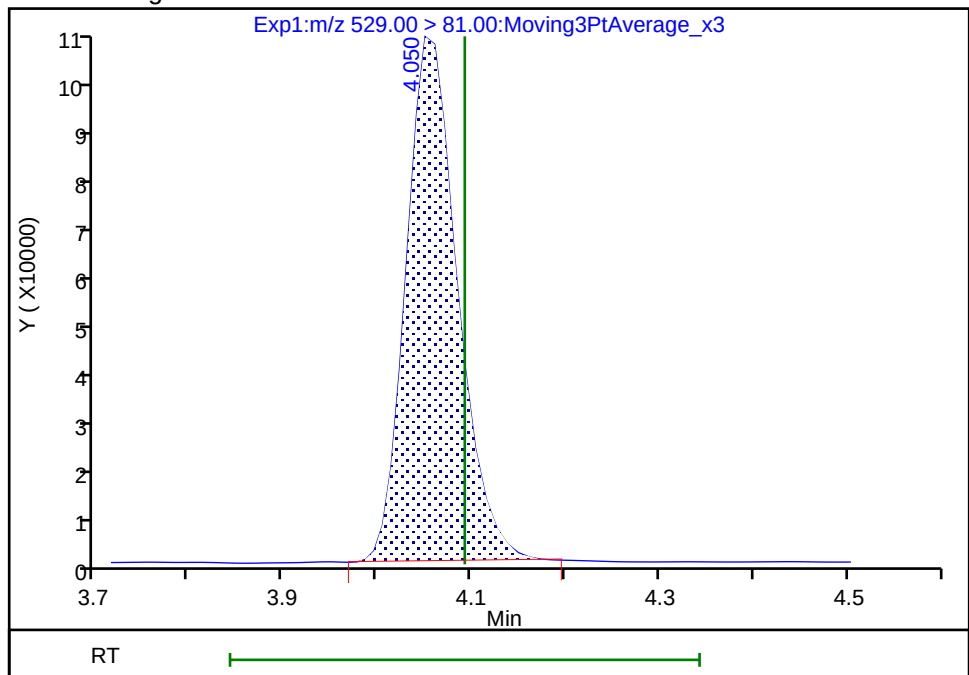
RT: 4.05
Area: 396609
Amount: 1.203570
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 393321
Amount: 1.193592
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:24:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: BCS-21-24_(10-10.5)P Lab Sample ID: 460-271837-4

Matrix: Solid Lab File ID: PA221230A21.d

Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:35

Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05

Sample wt/vol: 5.17(g) Date Analyzed: 12/30/2022 15:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 27.2 % Solids: 72.8 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.66	U	0.66	0.44
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27	U	0.27	0.073
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27	U	0.27	0.061
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.052
335-67-1	Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.077
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.045
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.033
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.044
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.054
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.025
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.045
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.66	U	2.66	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.66	U	2.66	0.11
27619-97-2	6:2 FTS	2.66	U	2.66	0.076
39108-34-4	8:2 FTS	2.66	U	2.66	0.049

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: BCS-21-24_(10-10.5)P Lab Sample ID: 460-271837-4
 Matrix: Solid Lab File ID: PA221230A21.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 13:35
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.17(g) Date Analyzed: 12/30/2022 15:28
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 27.2 % Solids: 72.8 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	81		50-150
STL01892	13C4 PFHpA	85		50-150
STL00990	13C4 PFOA	87		50-150
STL00991	13C4 PFOS	69		50-150
STL00995	13C5 PFNA	87		50-150
STL00992	13C4 PFBA	77		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	83		50-150
STL00997	13C2 PFUnA	79		50-150
STL00998	13C2 PFDoA	81		50-150
STL01056	13C8 FOSA	63		50-150
STL01893	13C5 PFPeA	77		50-150
STL02116	13C2 PFTeDA	67		50-150
STL02118	d3-NMeFOSAA	66		50-150
STL02117	d5-NEtFOSAA	72		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02280	M2-8:2 FTS	78		50-150
STL02337	13C3 PFBS	78		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
 Lims ID: 460-271837-A-4-A
 Client ID: BCS-21-24_(10-10.5)P
 Sample Type: Client
 Inject. Date: 30-Dec-2022 15:28:25 ALS Bottle#: 18 Worklist Smp#: 21
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271837-A-4-A
 Misc. Info.: 200-0053865-021 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:51:33 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 10:57:16

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.094	2.076	0.018	0.613	2492084	0.9578		76.6	7768	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.076	0.026	1.004	94450	0.0459			5.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.699	1895474	0.9566		76.5	2553	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	21910	0.0133			0.5	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.703	1960919	0.9108		78.4	116095	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	4350	0.002254	Target=2.09		4.6	M
298.90 > 99.00	2.413	2.400	0.013	1.006	1578		2.76(1.04-3.13)		0.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.795	2114378	1.02		81.5	4725	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.004	24687	0.0134	Target=14.25		3.5	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	1891		13.05(7.12-21.37)		3.2	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.066	3.088	-0.022	0.898	1493137	0.9520		80.5	3370	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.077	3.088	-0.011	1.004	6025	0.004228	Target=3.66		12.3	M
399.00 > 99.00	3.066	3.088	-0.022	1.000	2129		2.83(1.83-5.49)		2.3	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.077	3.099	-0.022	0.901	2270347	1.06		85.1	4062	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.077	3.099	-0.022	1.000	13778	0.006967	Target=3.97		2.6	
363.00 > 169.00	3.066	3.099	-0.033	0.996	3657		3.77(1.98-5.95)		6.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.404	3.439	-0.035	0.997	275639	1.05		88.3	751	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.404	3.439	-0.035	1.000	3348	-0.005045			3.8	
D 14 13C4 PFOA										
417.00 > 372.00	3.413	3.448	-0.035	1.000	2606690	1.09		86.9	4639	
* 62 13C2 PFOA										
415.00 > 370.00	3.413	3.448	-0.035		2899454	1.25			6604	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.413	3.448	-0.035	1.000	40751	0.0183	Target=2.79		2.4	M
413.00 > 169.00	3.413	3.448	-0.035	1.000	10842		3.76(1.40-4.19)		10.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.726	3.764	-0.038	1.092	883445	0.8302		69.5	2181	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.726	3.764	-0.038	1.000	16278	0.0181	Target=5.11		11.9	M
499.00 > 99.00	3.735	3.764	-0.029	1.003	3000		5.43(2.55-7.66)		6.4	M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.745	3.783	-0.038	1.000	7566	0.003593	Target=8.55		1.5	RM
463.00 > 169.00	3.745	3.783	-0.038	1.000	529		14.30(4.28-12.83)		4.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.745	3.783	-0.038	1.097	2537092	1.09		87.0	4664	
D 23 13C2 PFDA										
515.00 > 470.00	4.042	4.081	-0.039	1.184	2469615	1.04		83.1	5277	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.051	4.081	-0.030	1.002	3917	0.001828	Target=10.26		1.6	
513.00 > 169.00	4.042	4.081	-0.039	1.000	738		5.31(5.13-15.38)		2.3	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.051	4.093	-0.042	1.187	300985	0.9357		78.1	904	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.051	4.093	-0.042	1.000	3836	0.009438			28.4	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.116	4.150	-0.034	1.003	3139	0.002443			8.0	
D 21 13C8 FOSA										
506.00 > 78.00	4.104	4.150	-0.046	1.203	1537124	0.7886		63.1	3243	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.184	4.228	-0.044	1.226	401306	0.8290		66.3	1657	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.196	4.228	-0.032	1.003	1432	-0.006442			4.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.353	-0.045	1.262	2145434	0.9855		78.8	2077	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.320	4.353	-0.033	1.003	4124	0.002384	Target=9.88		2.0	
563.00 > 169.00	4.308	4.353	-0.045	1.000	306		13.48(4.94-14.82)		5.2	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.331	4.365	-0.034	1.003	2028	0.006643			18.2	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.365	-0.045	1.266	426251	0.8943		71.5	875	

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	4.543	4.591	-0.048	1.000	3917	0.002063	Target=7.77	0.9		
613.00 > 169.00	4.555	4.591	-0.036	1.003	551		7.11(3.89-11.66)	7.6		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.543	4.591	-0.048	1.331	2240573	1.01		80.8	3976	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.758	4.804	-0.046	1.047	2697	0.001485	Target=5.21	0.3		
663.00 > 169.00	4.749	4.804	-0.055	1.045	355		7.60(2.60-7.81)	5.2		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.952	5.012	-0.060	1.000	414	0.002342	Target=0.89	7.5		M
713.00 > 219.00	4.942	5.012	-0.070	0.998	402		1.03(0.44-1.33)	7.1		
D 43 13C2 PFTeDA										
715.00 > 670.00	4.952	5.012	-0.060	1.451	1614318	0.8415		67.3	3002	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d

Injection Date: 30-Dec-2022 15:28:25

Instrument ID: LC812

Lims ID: 460-271837-A-4-A

Lab Sample ID: 200-271837-4

Client ID: BCS-21-24_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 18

Worklist Smp#: 21

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

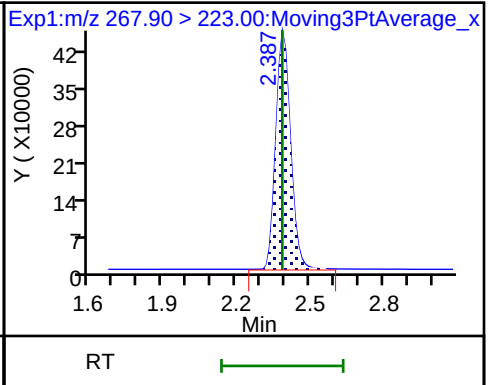
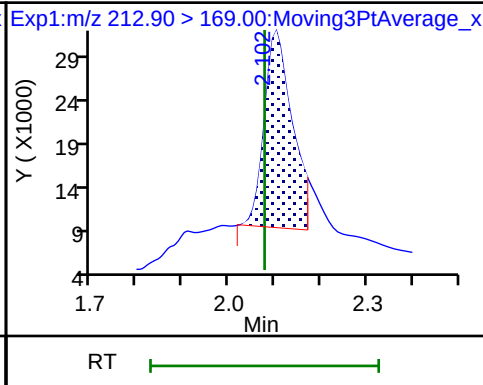
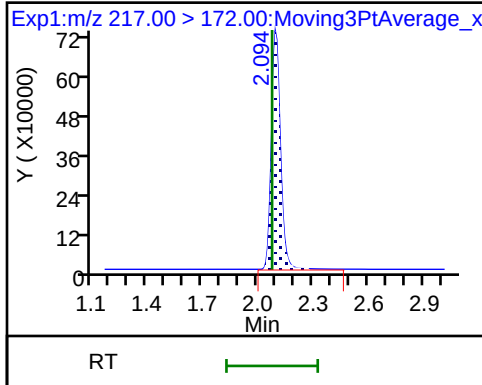
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

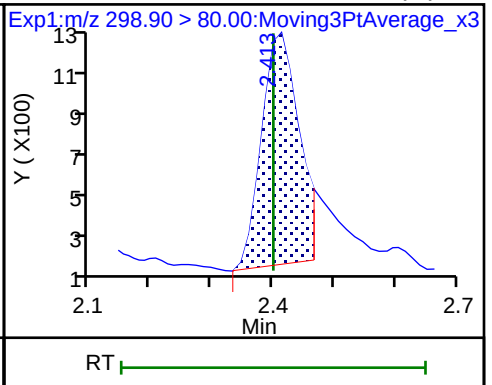
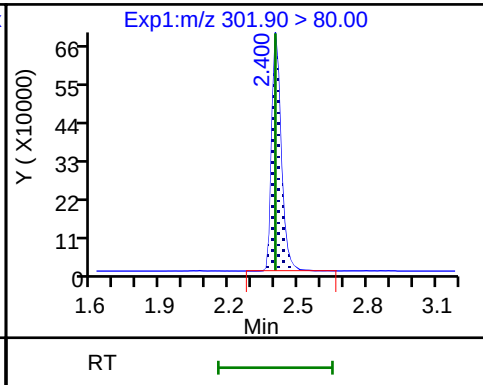
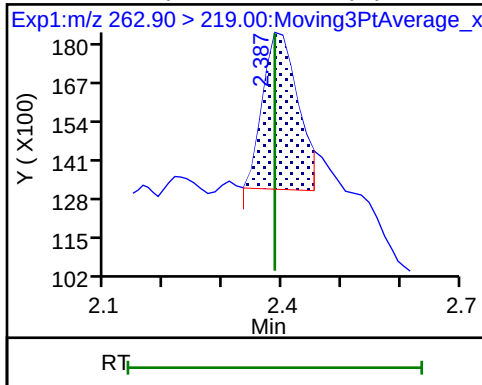
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

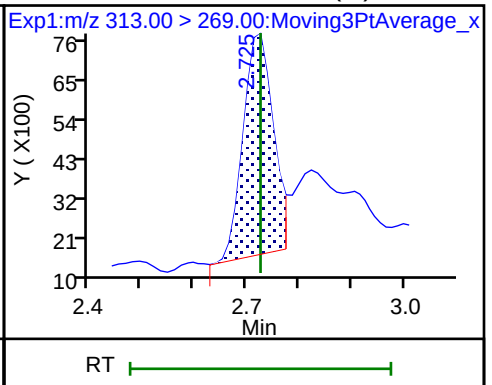
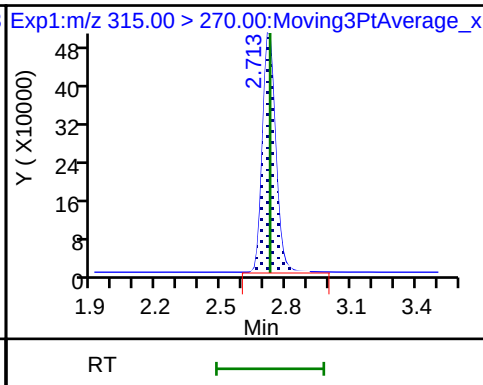
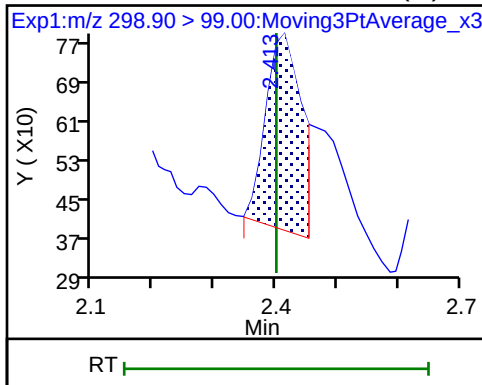
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

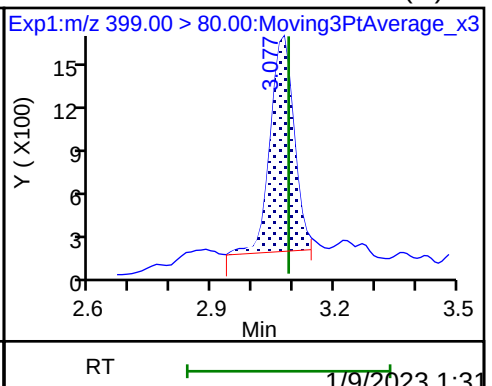
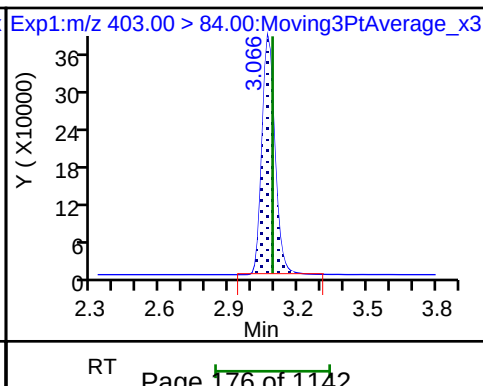
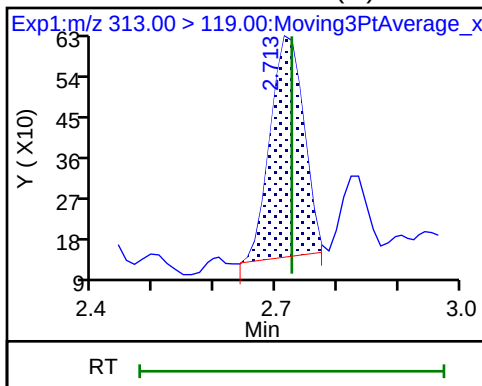
6 Perfluorohexanoic acid (M)

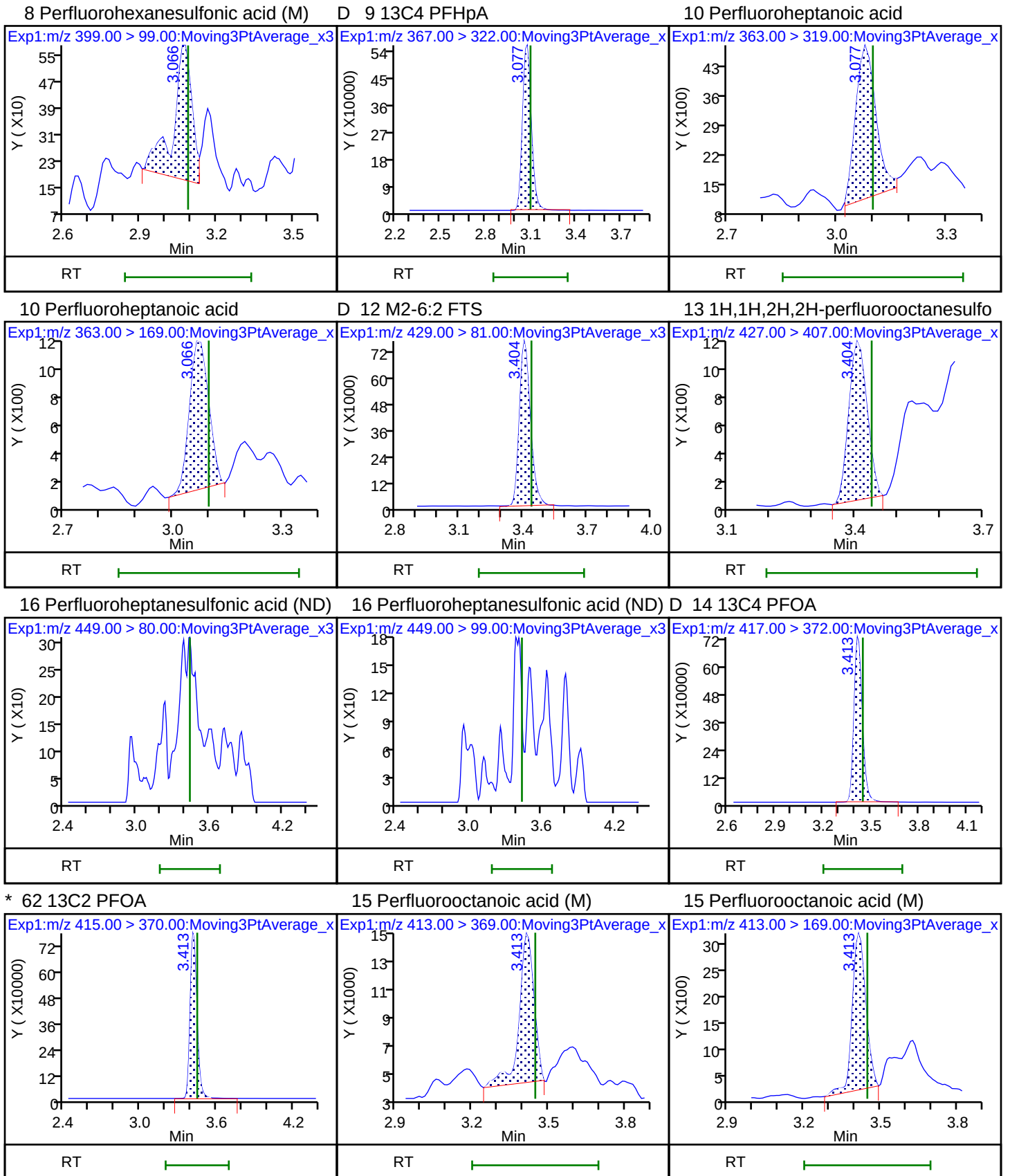


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

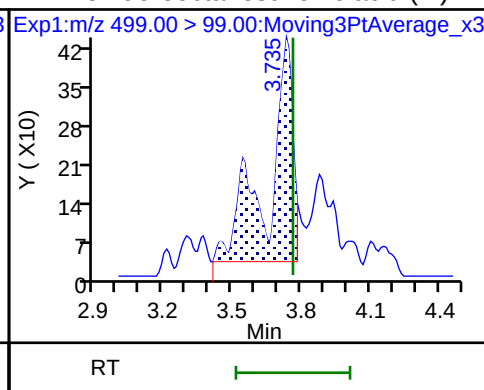
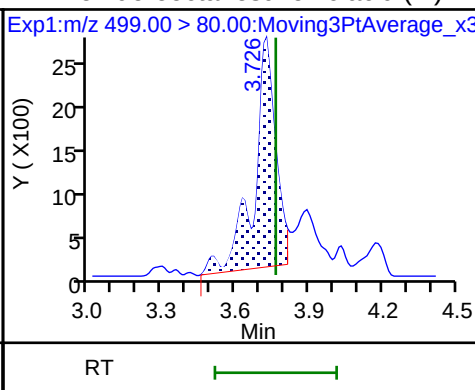
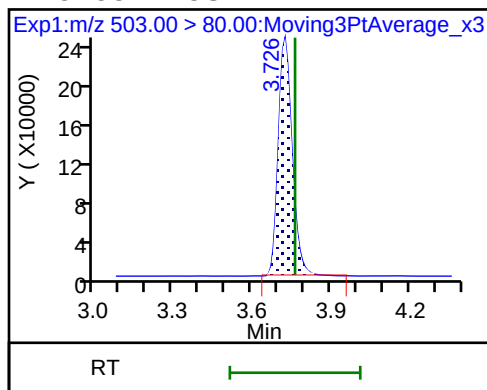




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

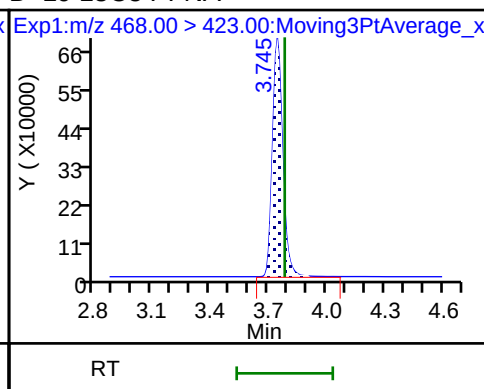
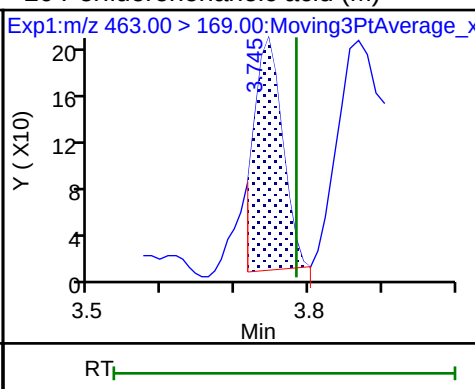
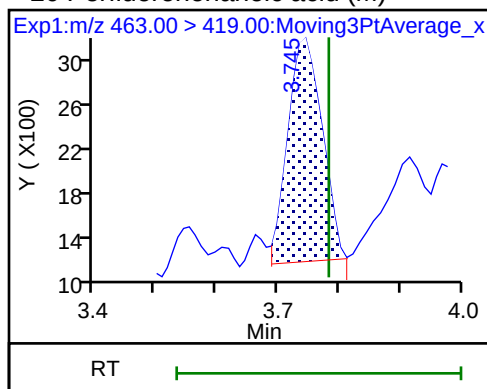
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

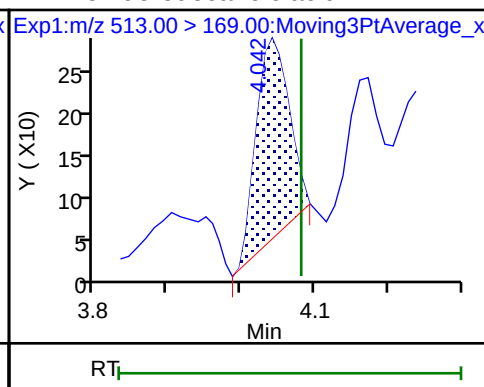
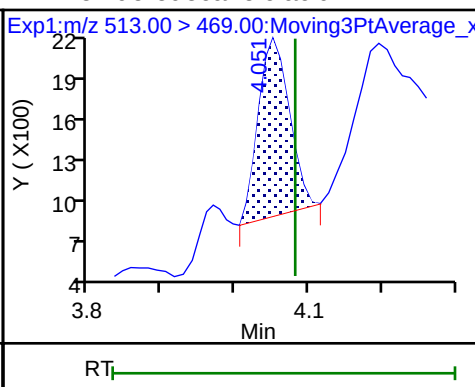
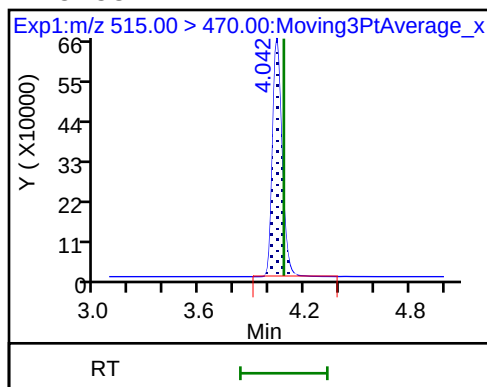
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid

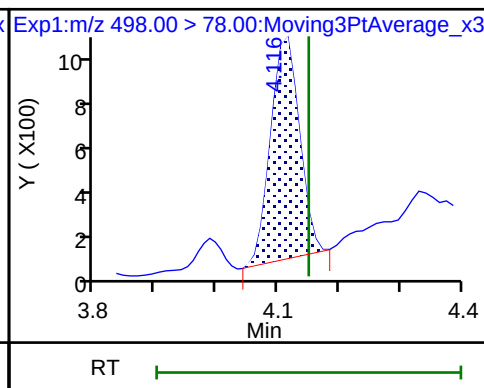
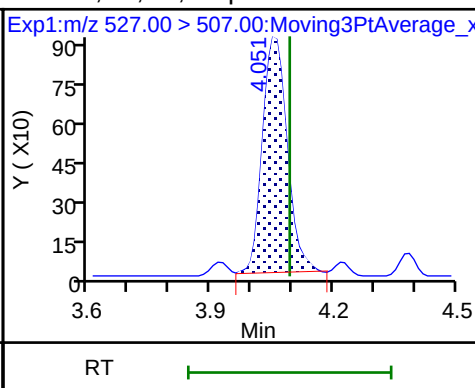
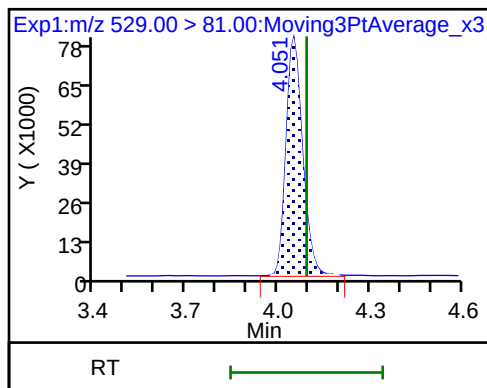
24 Perfluorodecanoic acid



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo

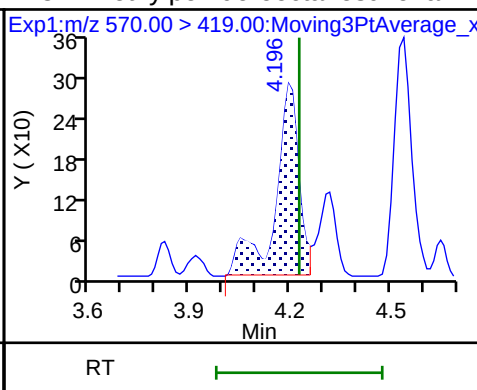
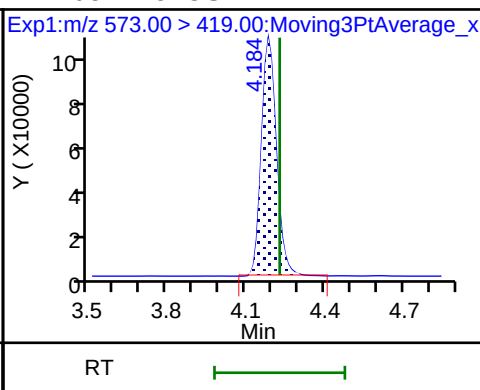
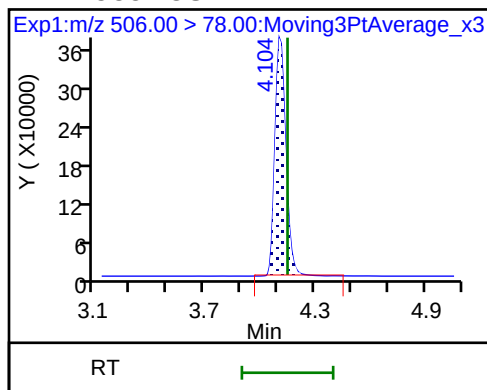
22 Perfluorooctanesulfonamide



D 21 13C8 FOSA

D 27 d3-NMeFOSAA

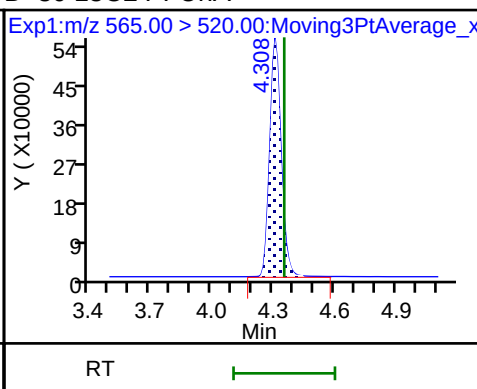
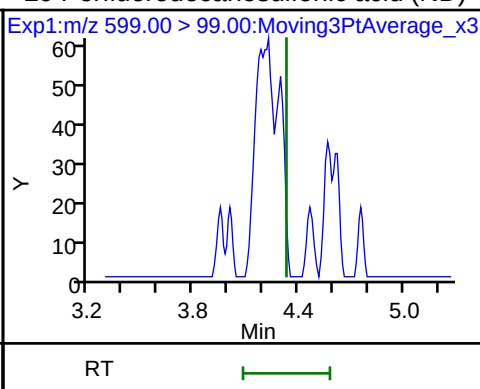
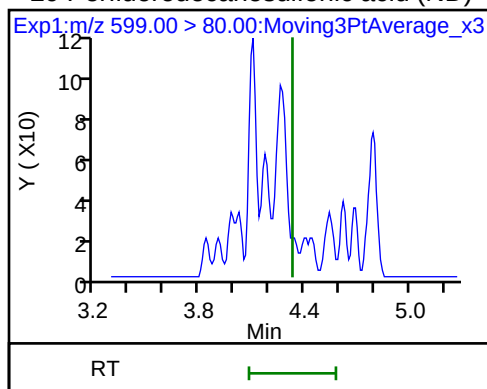
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

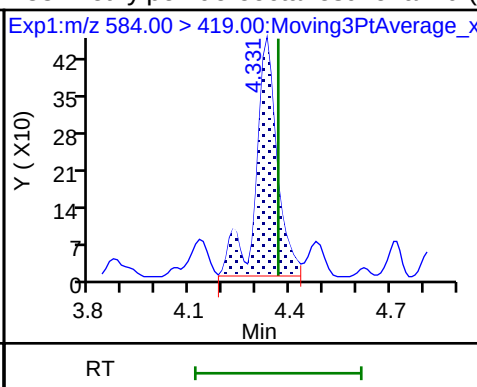
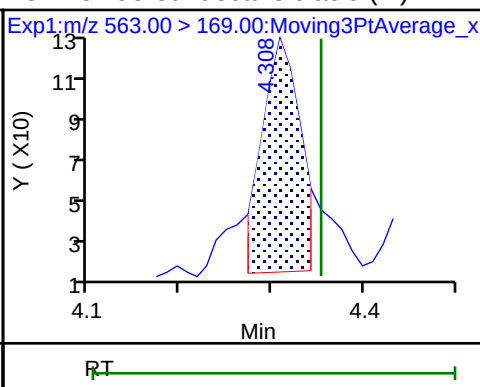
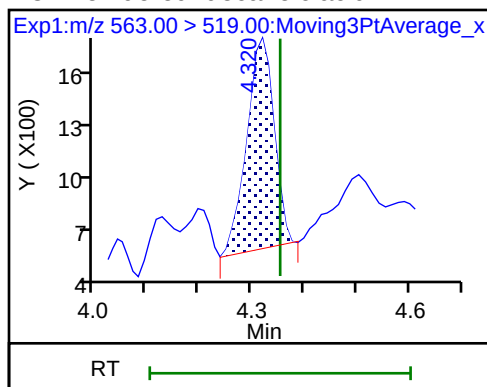
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

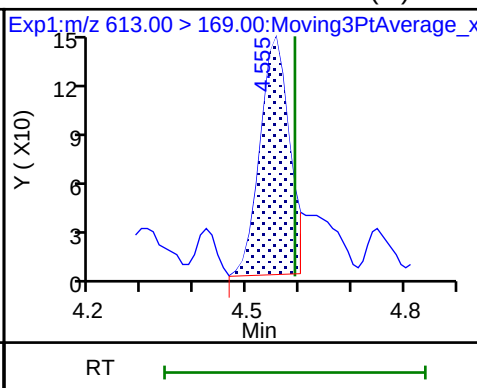
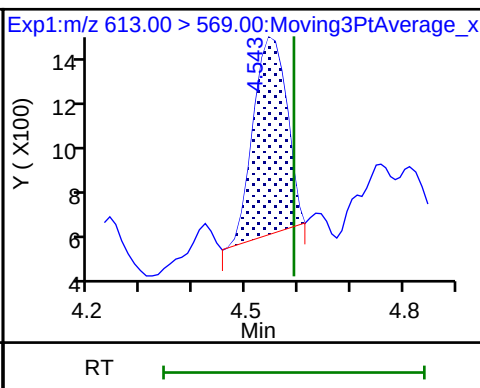
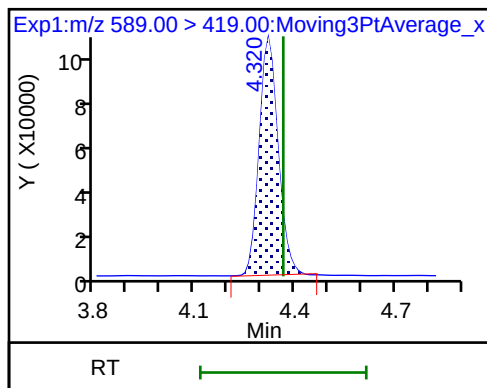
33 N-ethylperfluorooctanesulfonamid (M)



D 32 d5-NEtFOSAA

37 Perfluorododecanoic acid

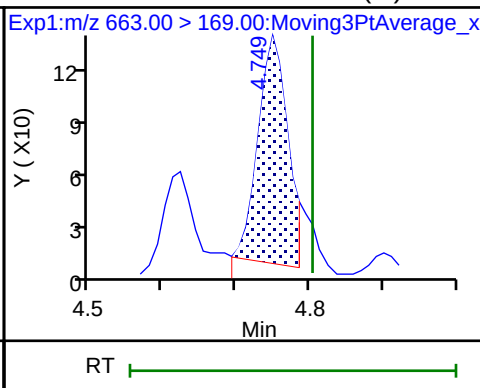
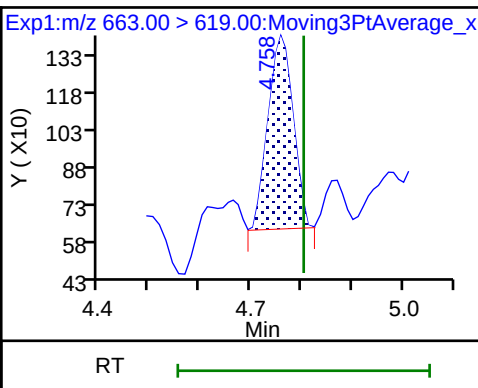
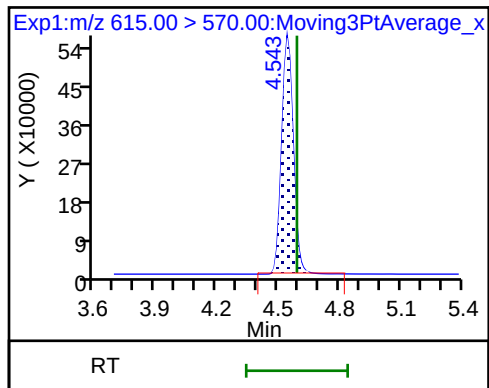
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid

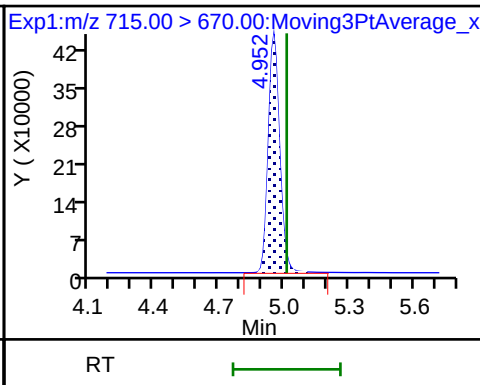
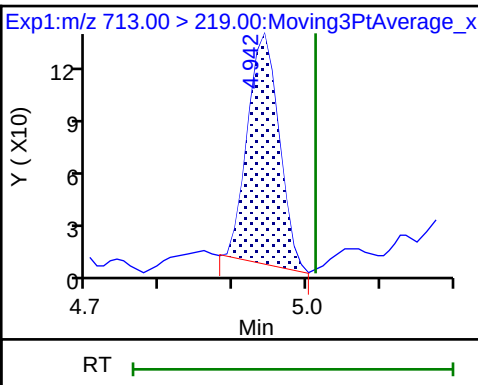
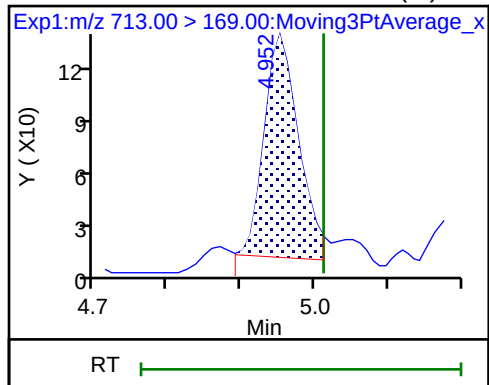
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

D 43 13C2 PFTeDA



Eurofins Burlington

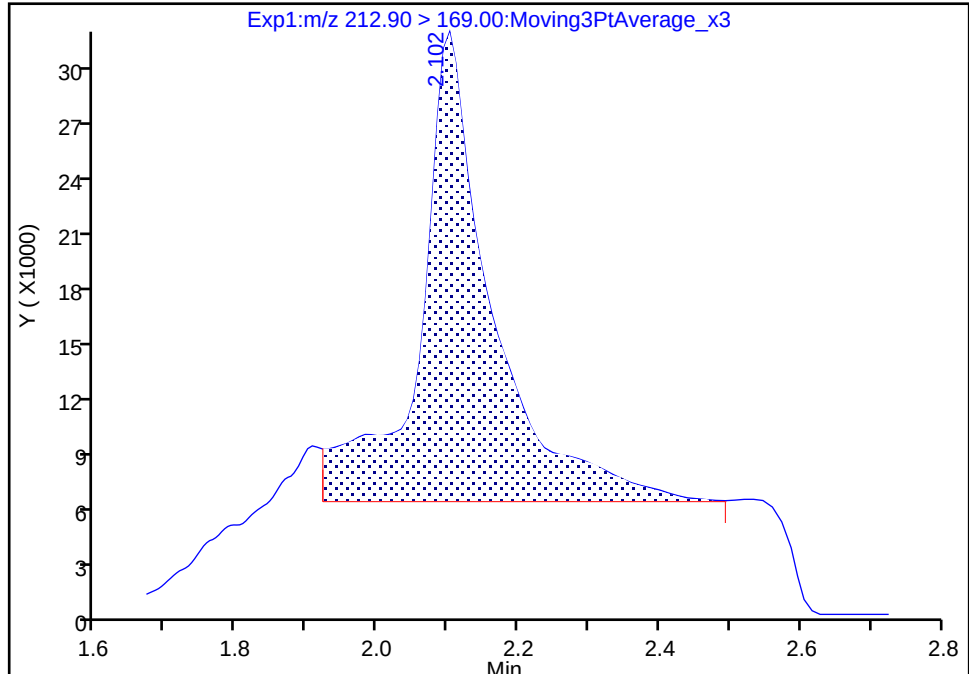
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

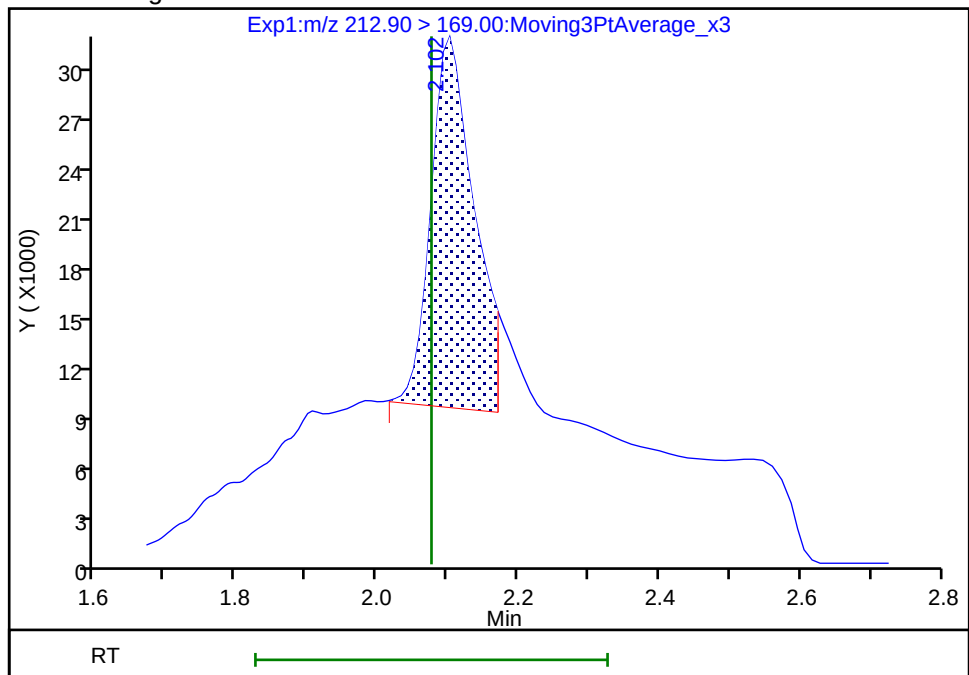
RT: 2.10
Area: 183525
Amount: 0.089269
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 94450
Amount: 0.045942
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:53:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

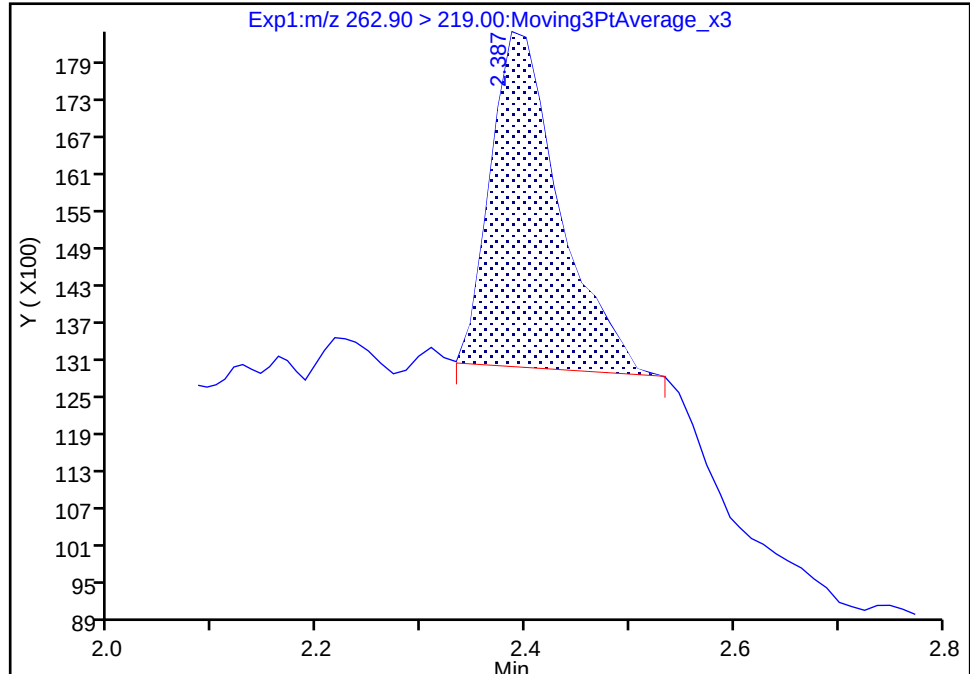
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

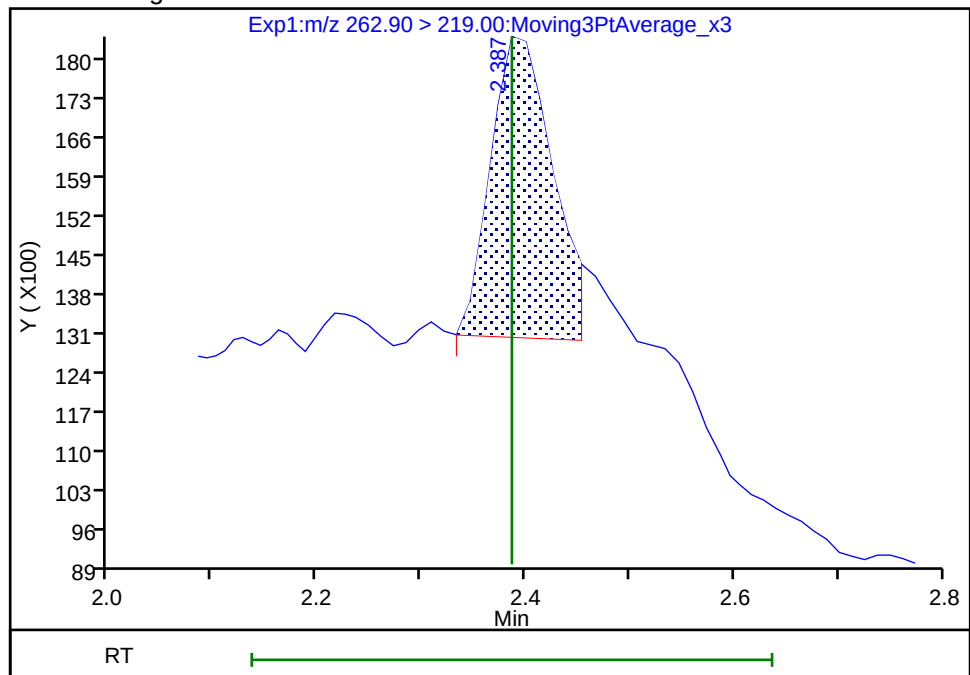
RT: 2.39
Area: 24683
Amount: 0.014936
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 21910
Amount: 0.013258
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:53:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

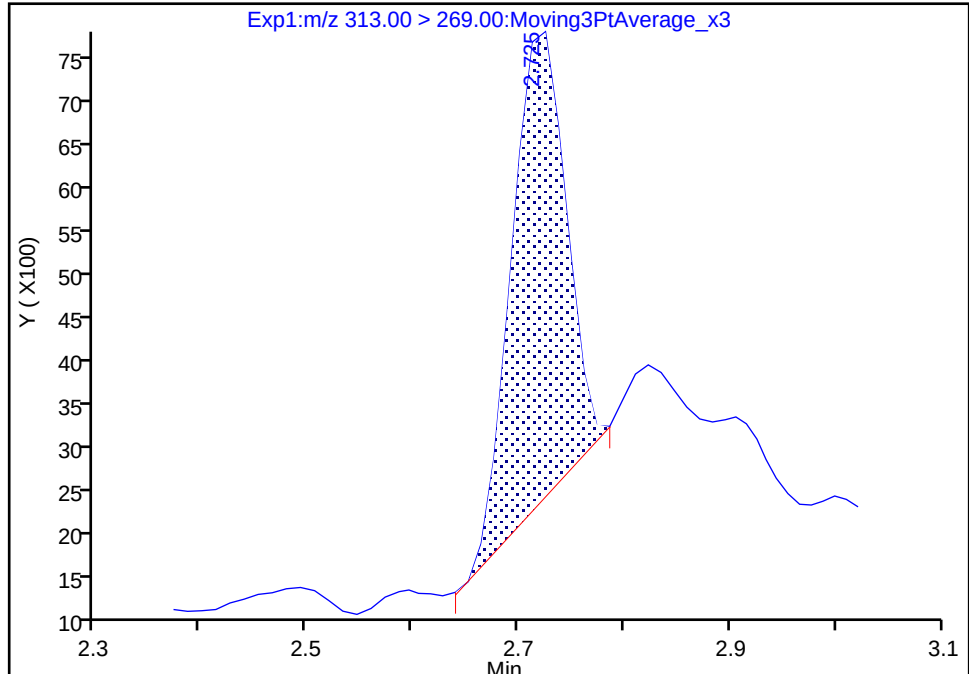
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

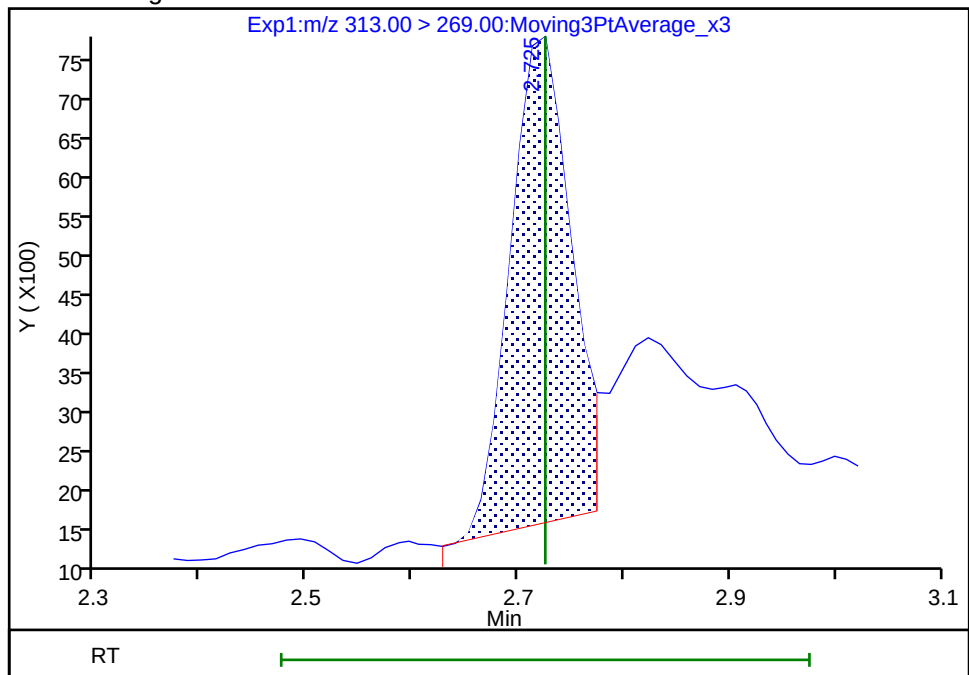
RT: 2.73
Area: 19506
Amount: 0.010583
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 24687
Amount: 0.013394
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:54:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

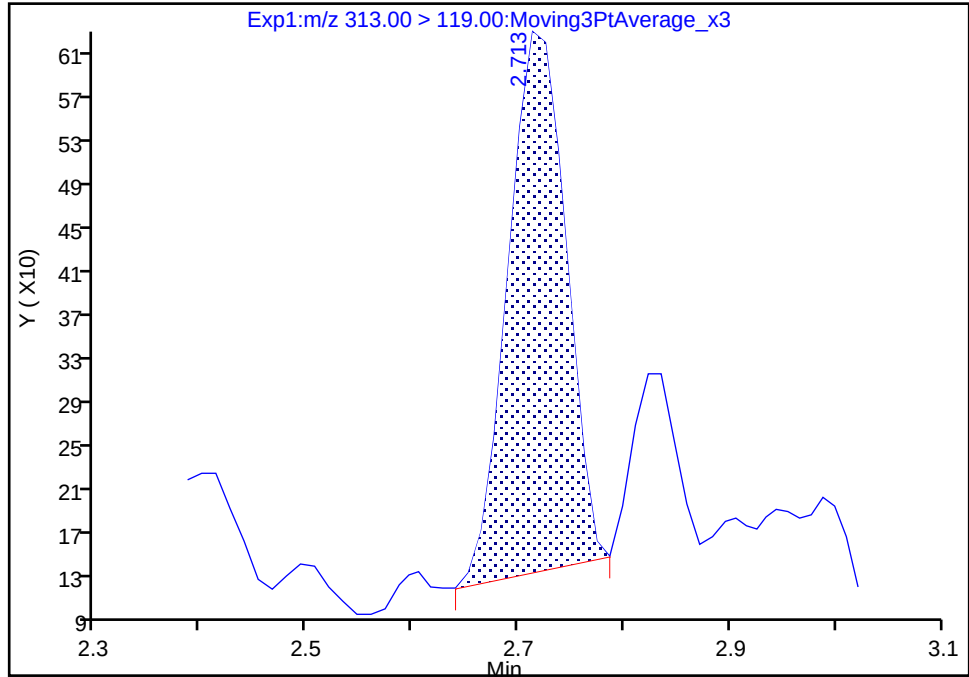
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

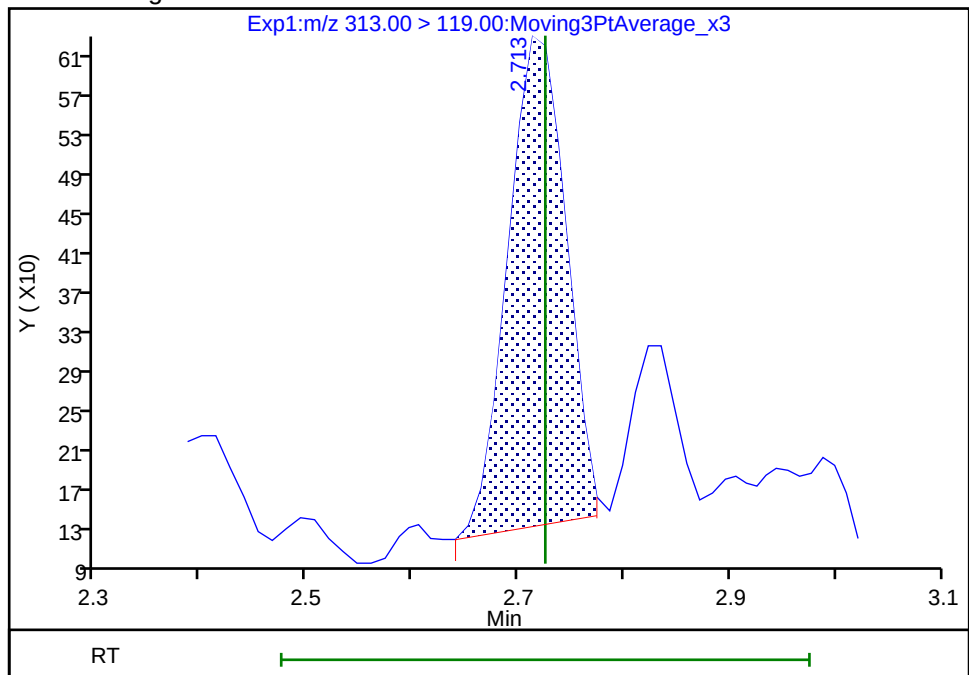
RT: 2.71
Area: 1883
Amount: 0.010583
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 1891
Amount: 0.013394
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:54:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 184 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

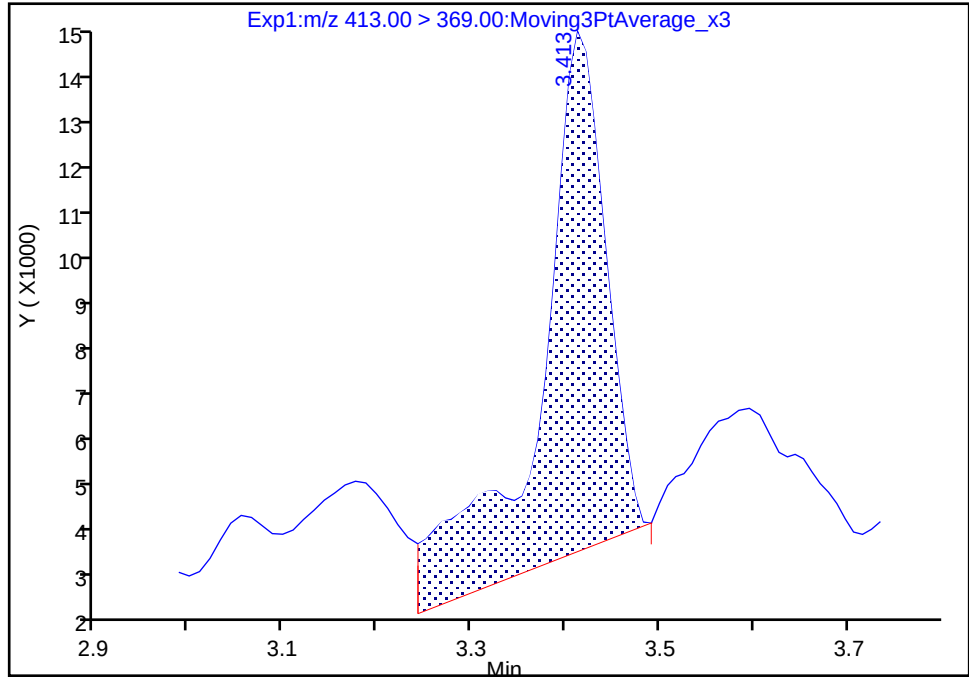
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

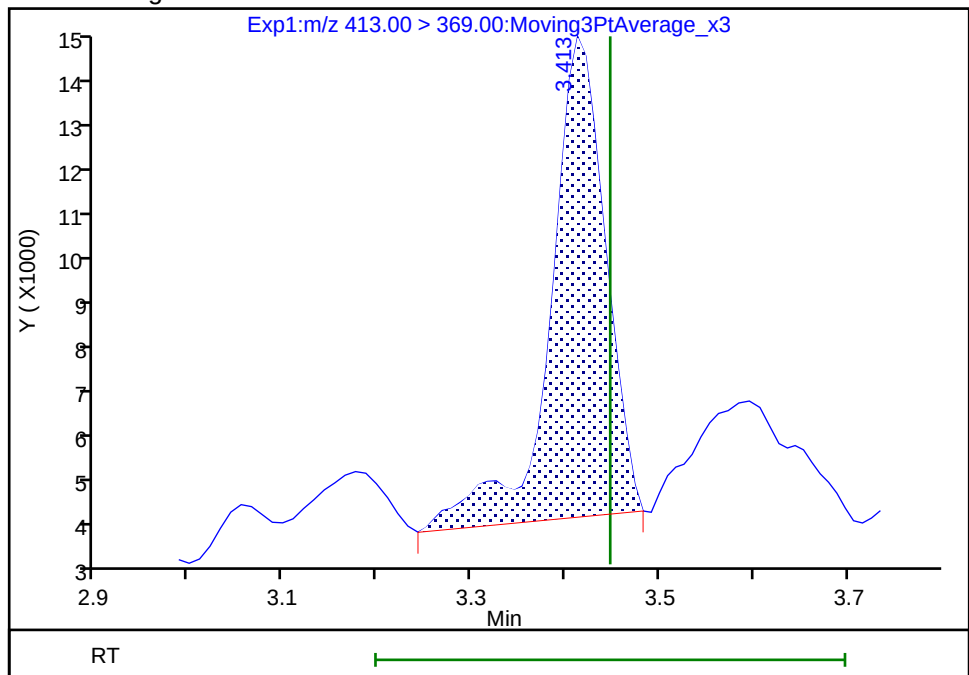
RT: 3.41
Area: 51637
Amount: 0.023163
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 40751
Amount: 0.018280
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:54:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

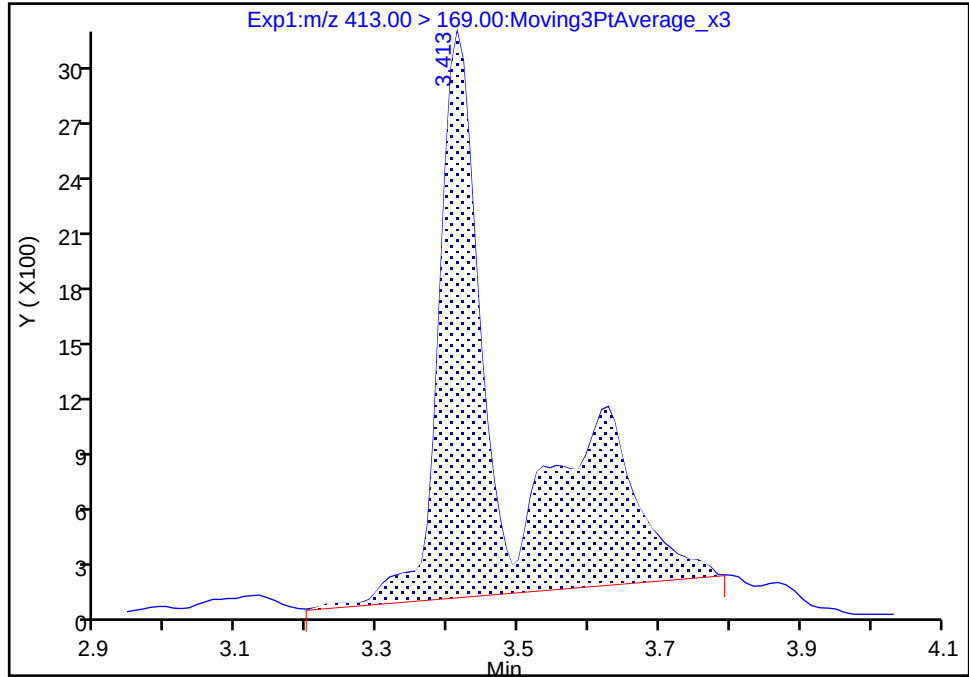
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

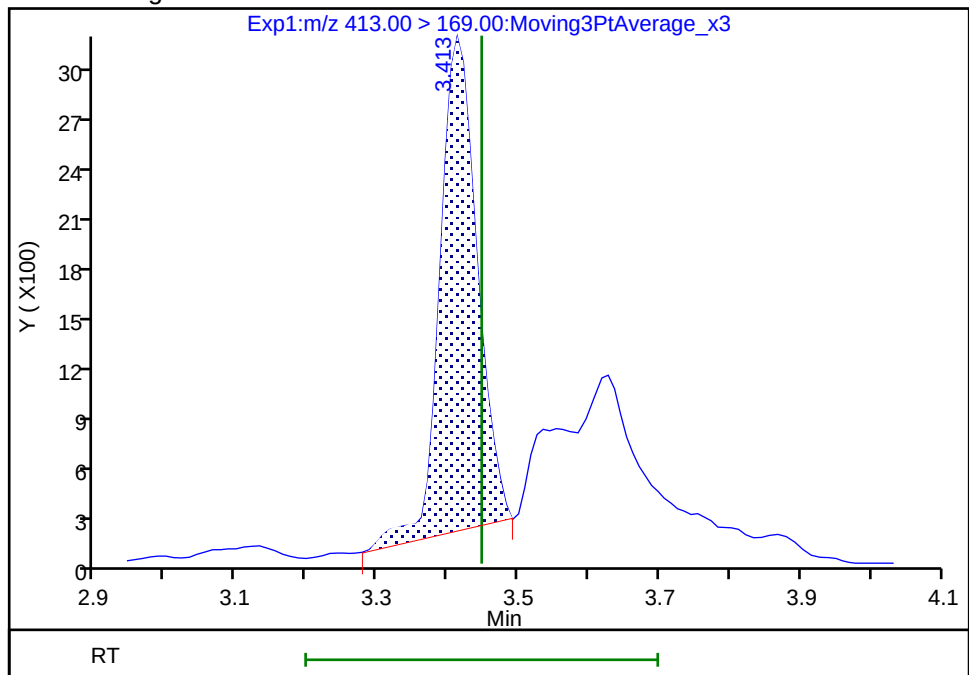
RT: 3.41
Area: 19795
Amount: 0.023163
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 10842
Amount: 0.018280
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:55:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

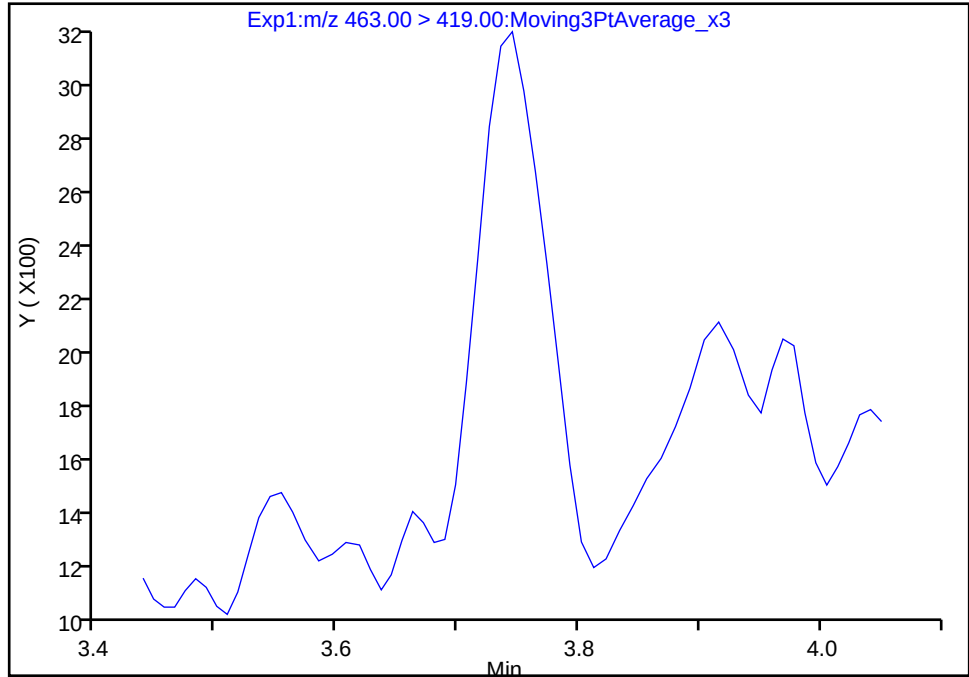
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

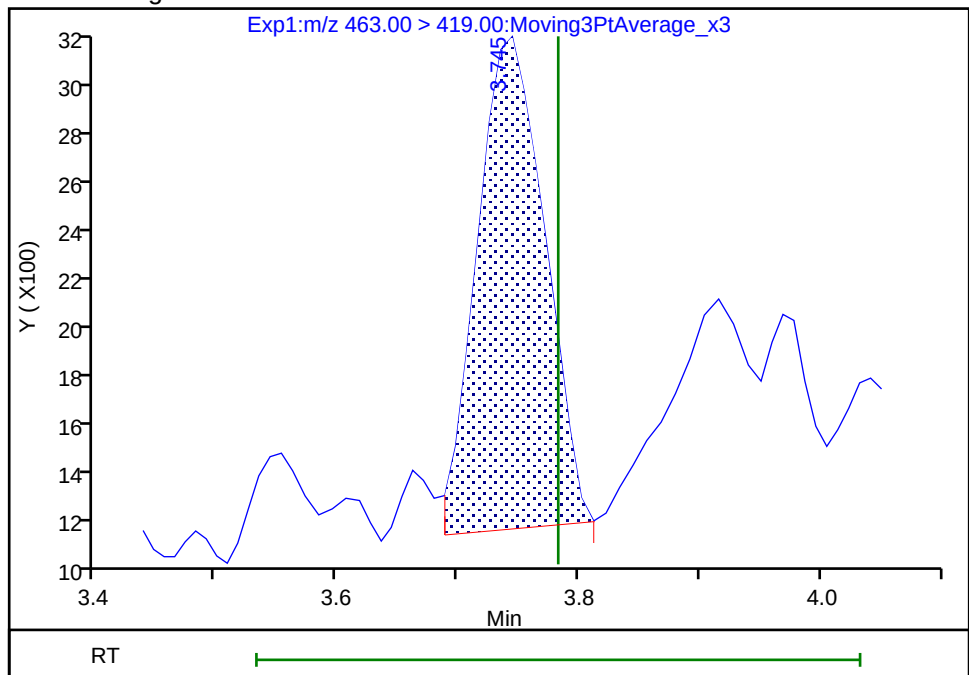
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.74
Area: 7566
Amount: 0.003593
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:55:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

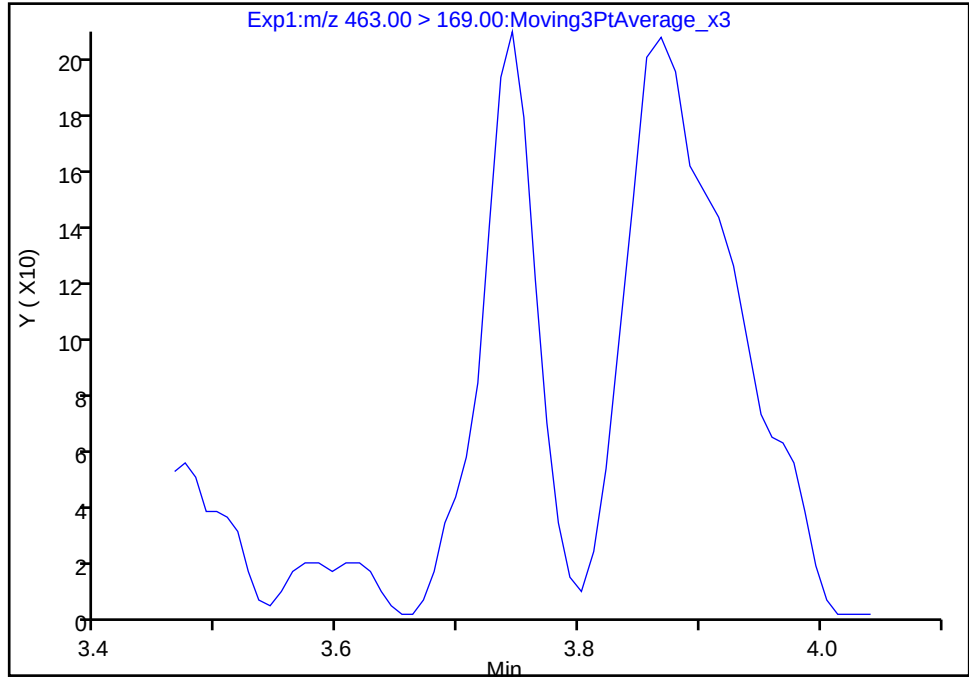
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

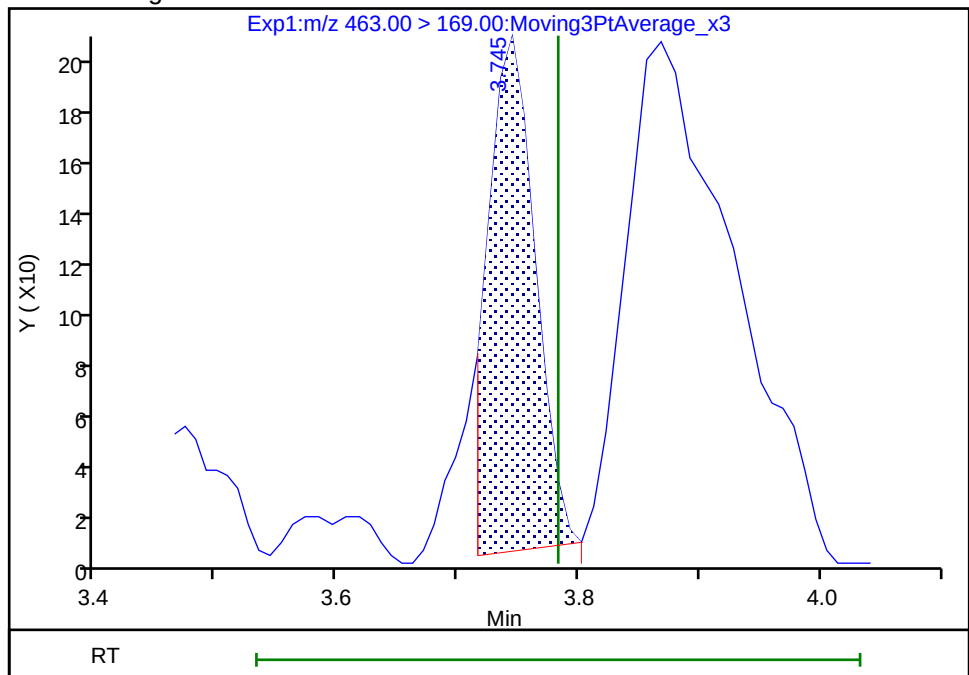
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.74
Area: 529
Amount: 0.003593
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:55:38

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 188 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

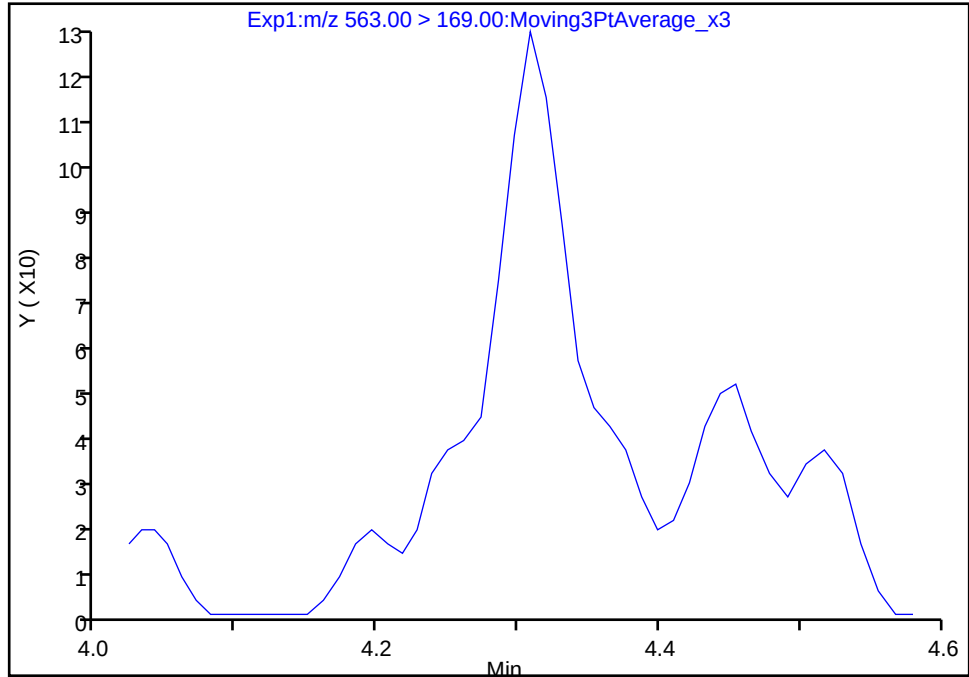
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

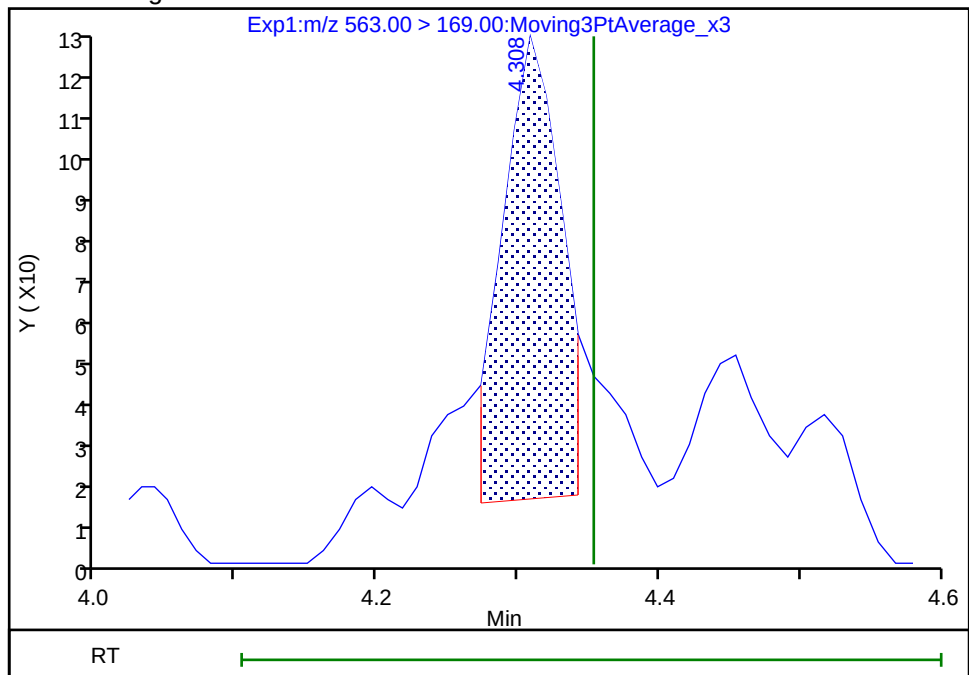
Signal: 2

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 306
Amount: 0.002384
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:56:16

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

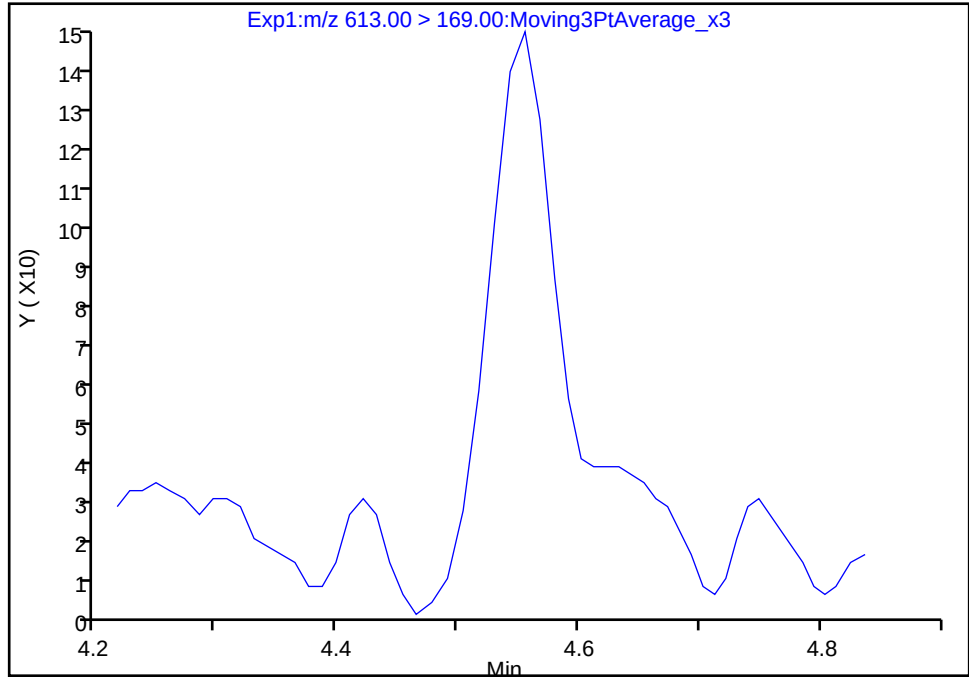
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

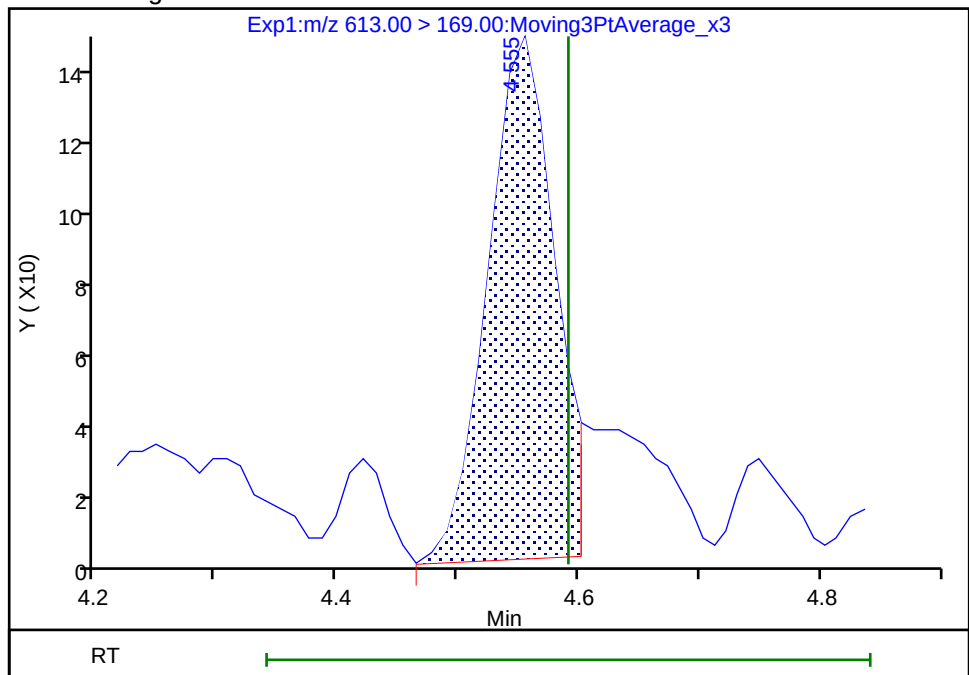
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.56
Area: 551
Amount: 0.002063
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 10:56:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

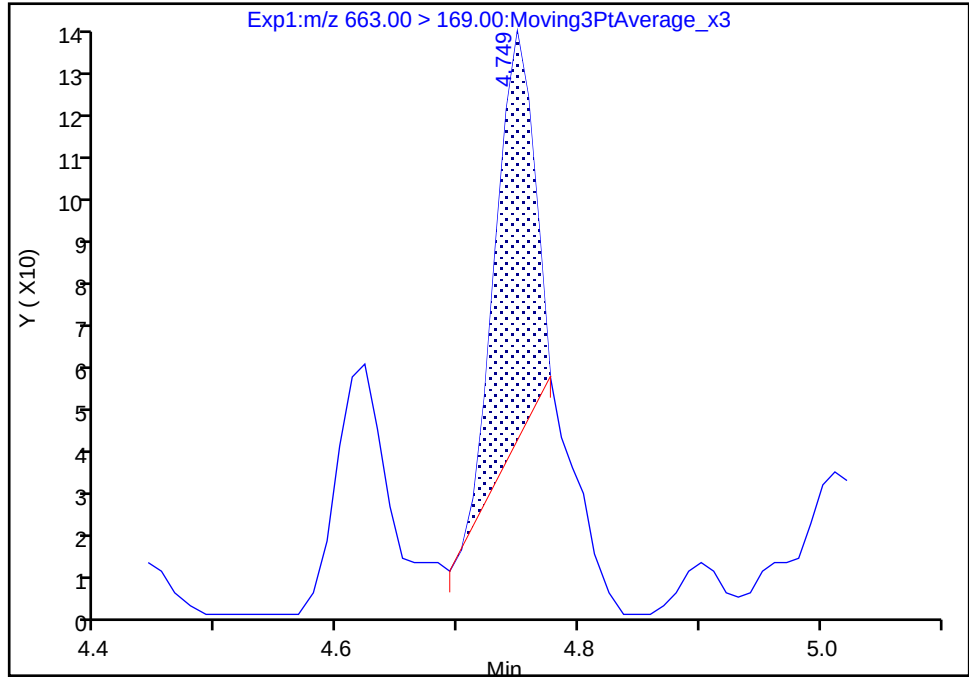
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

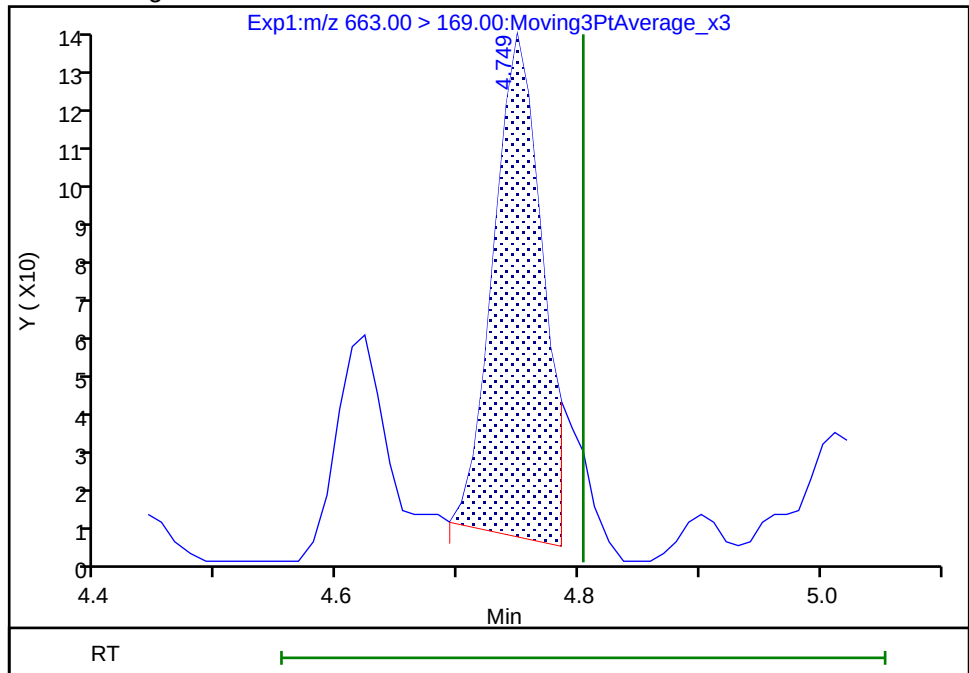
RT: 4.75
Area: 205
Amount: 0.001485
Amount Units: ng/ml

Processing Integration Results



RT: 4.75
Area: 355
Amount: 0.001485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:56:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

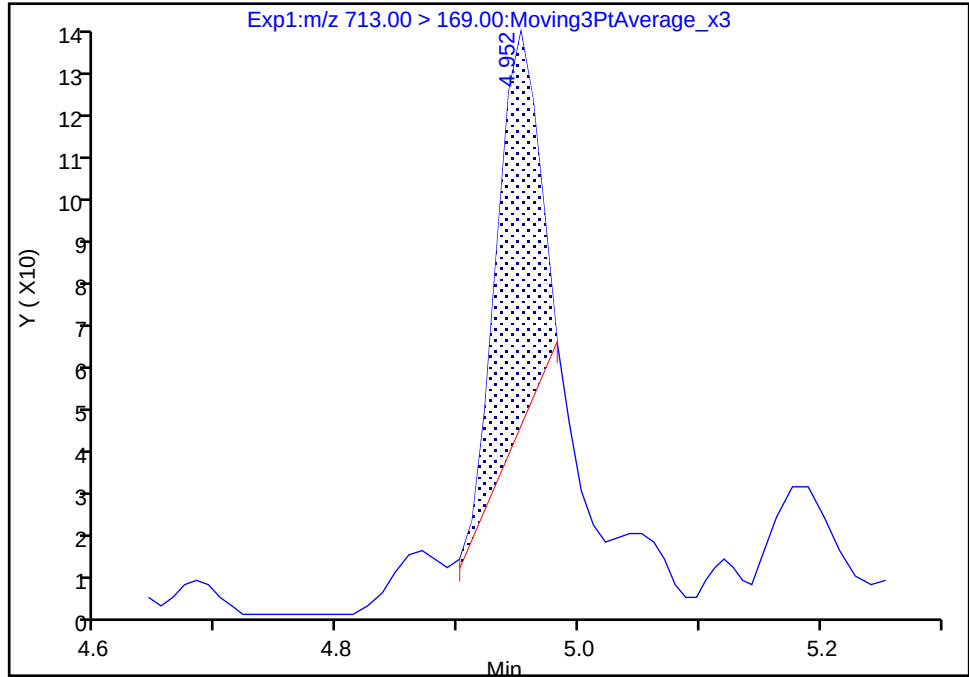
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

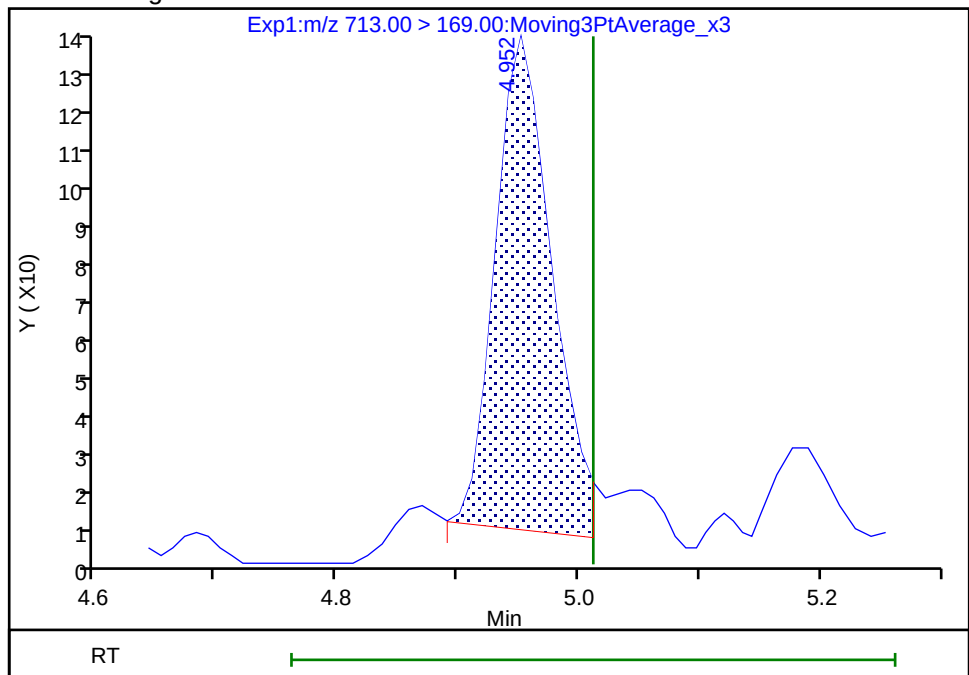
RT: 4.95
Area: 220
Amount: 0.001244
Amount Units: ng/ml

Processing Integration Results



RT: 4.95
Area: 414
Amount: 0.002342
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:57:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

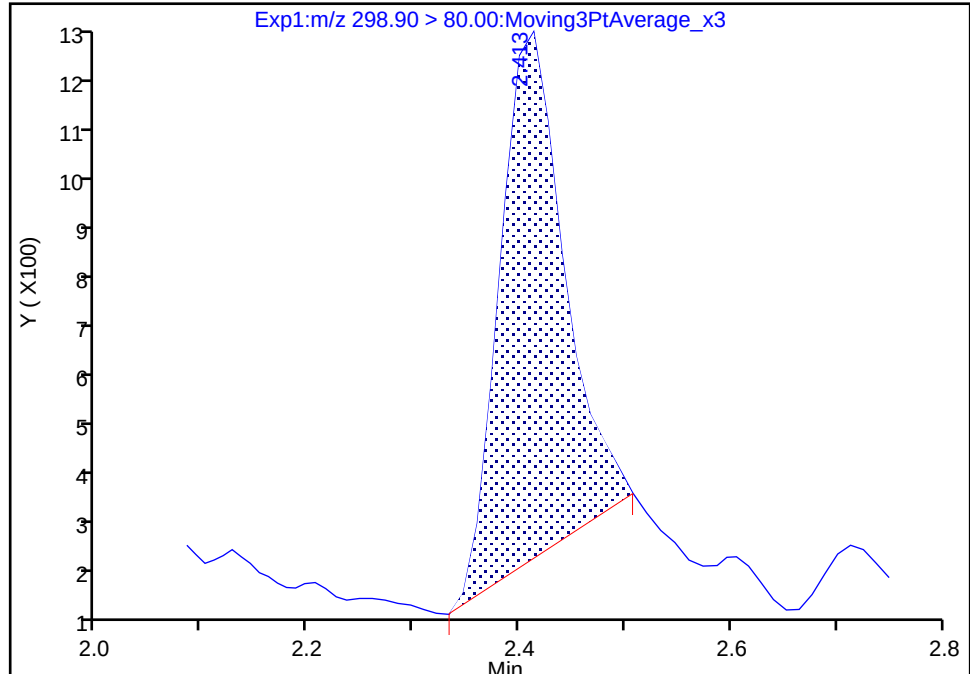
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

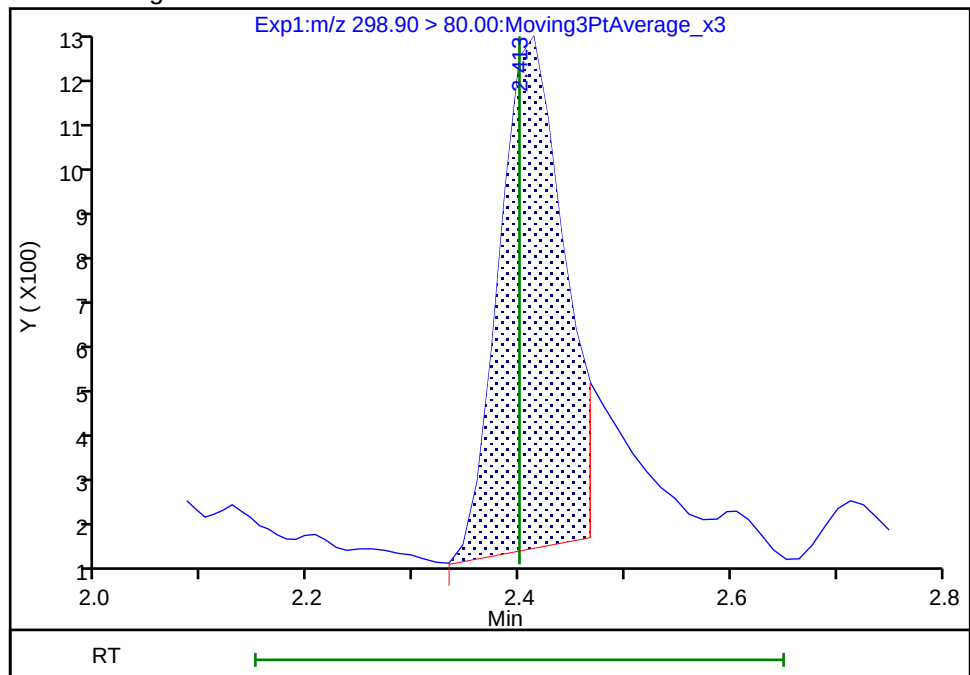
RT: 2.41
Area: 4102
Amount: 0.002126
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 4350
Amount: 0.002254
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:53:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

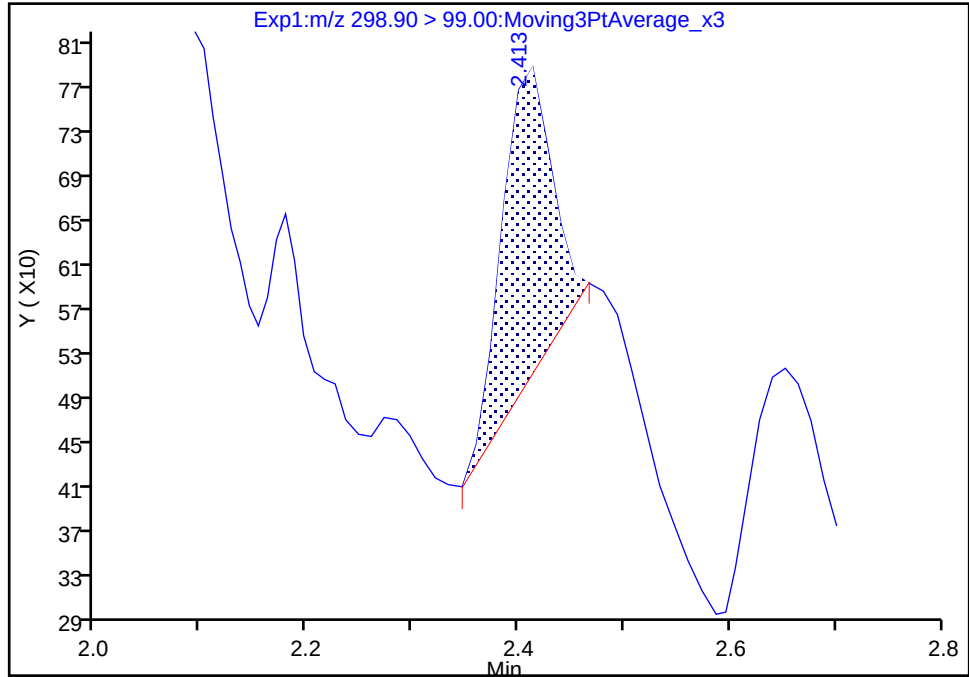
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

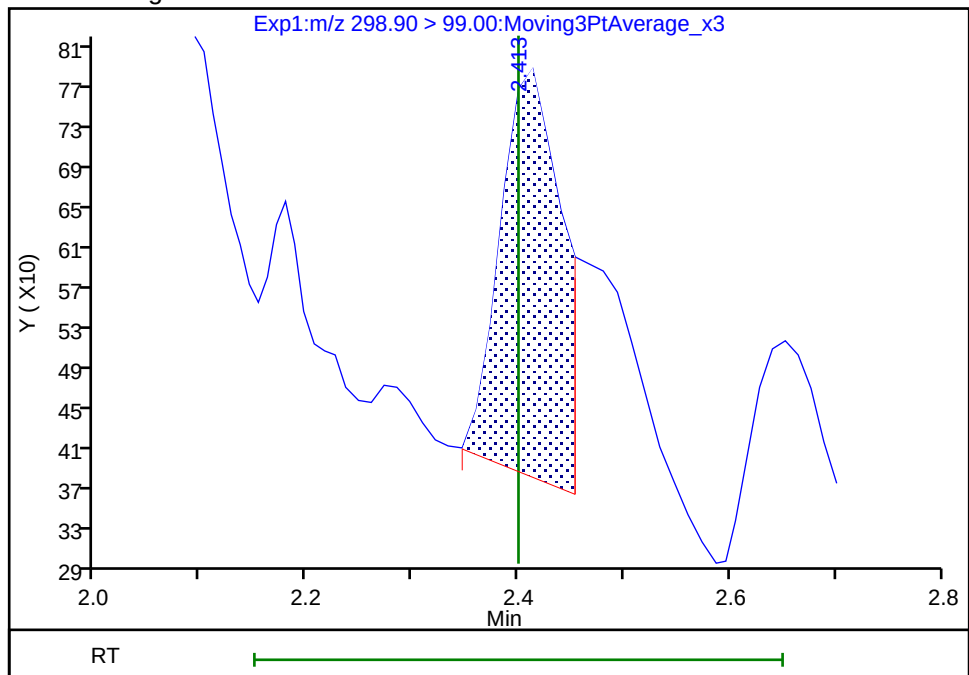
RT: 2.41
Area: 923
Amount: 0.002126
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1578
Amount: 0.002254
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:54:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 194 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

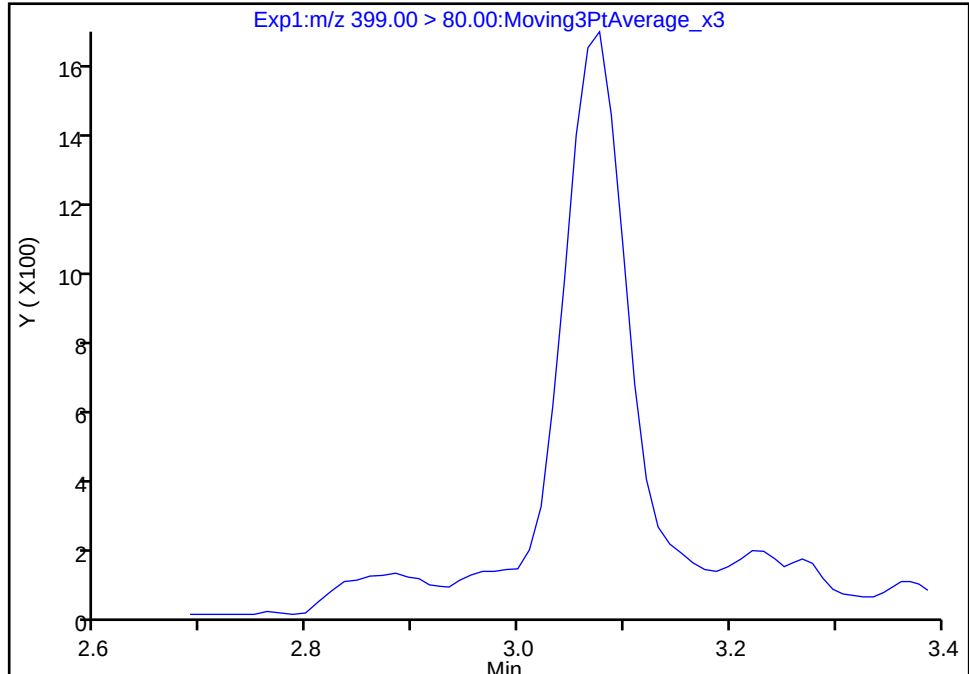
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

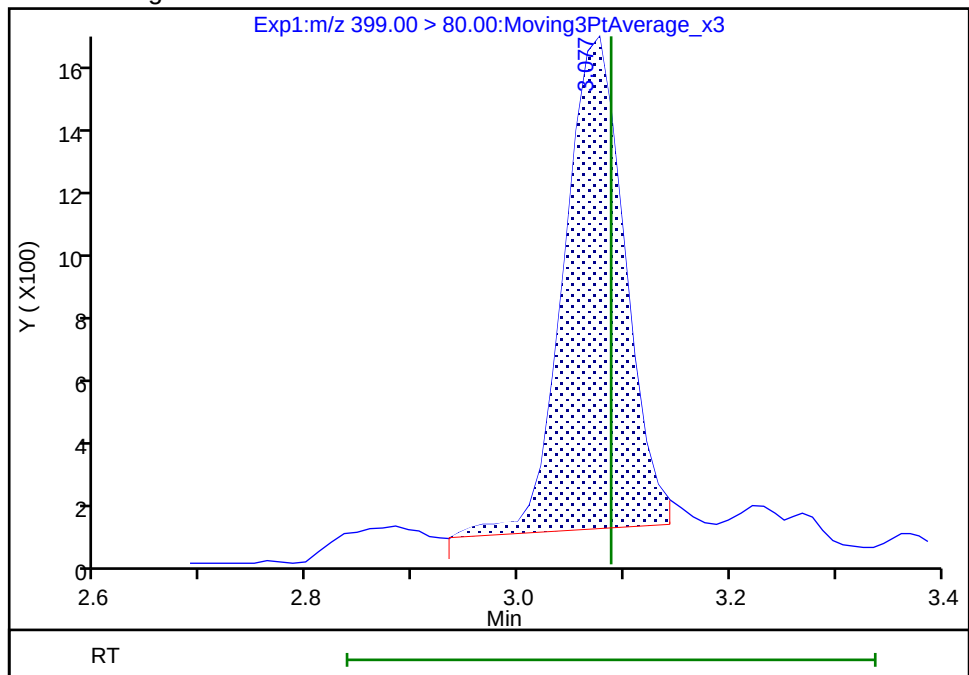
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 6025
Amount: 0.004228
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:54:33

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

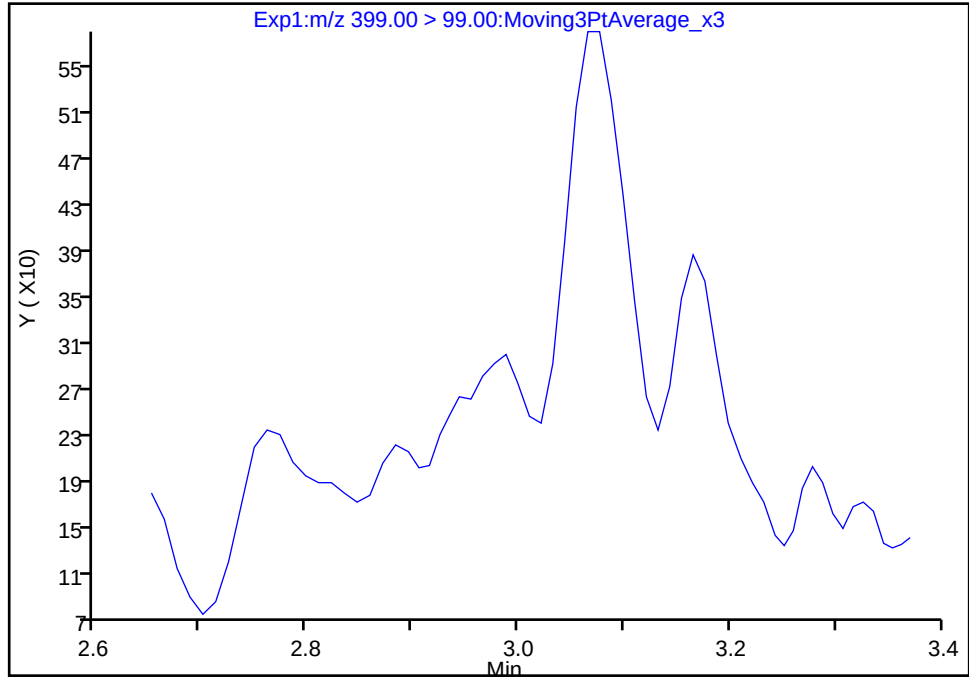
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

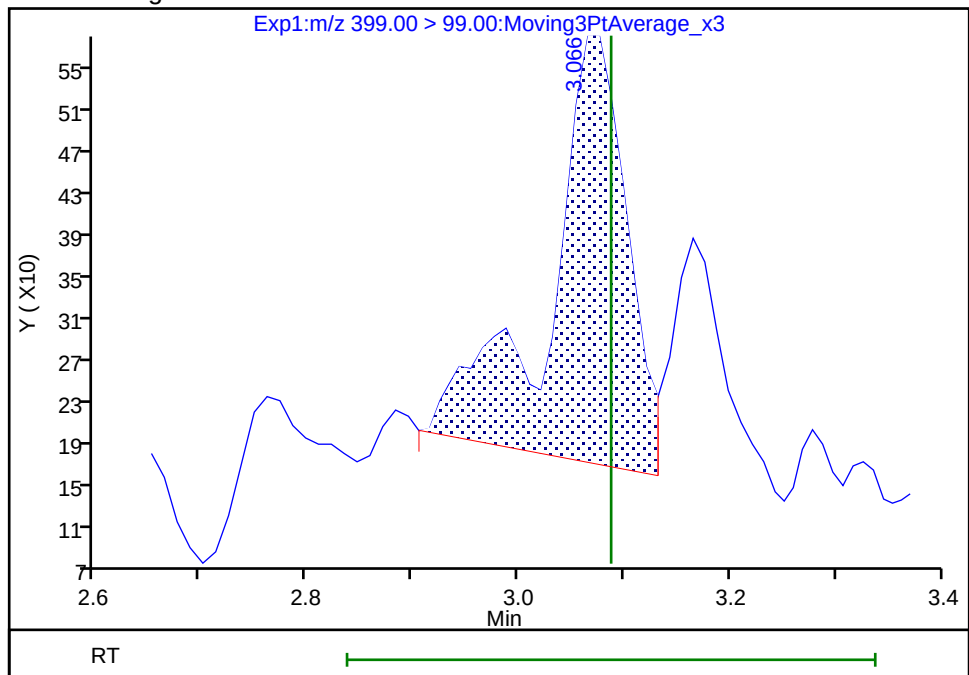
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 2129
Amount: 0.004228
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 10:54:36

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 196 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

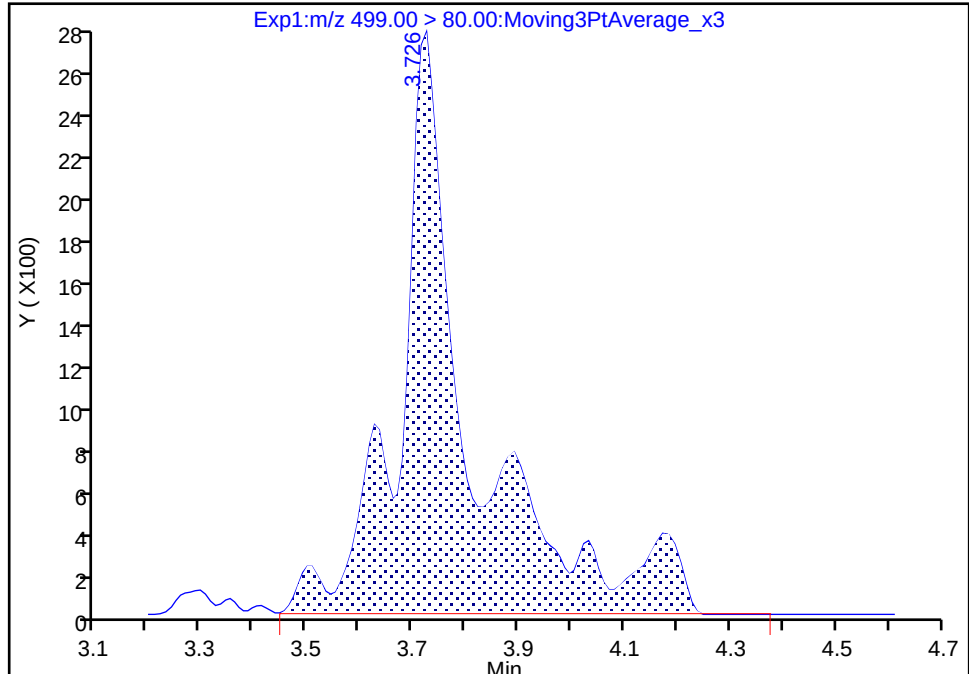
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

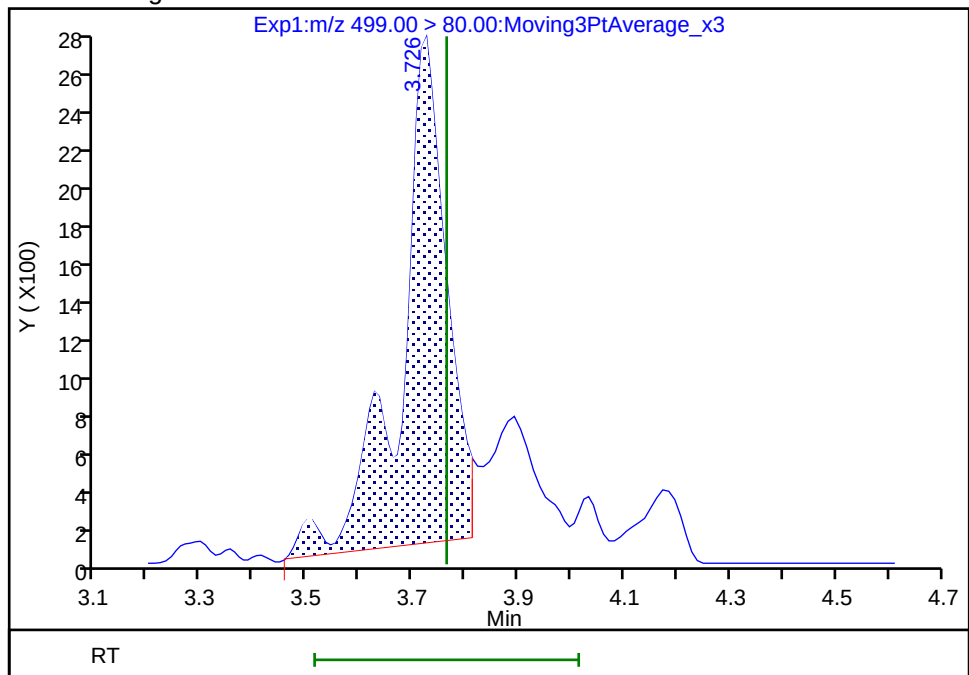
RT: 3.73
Area: 26620
Amount: 0.029608
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 16278
Amount: 0.018105
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:55:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

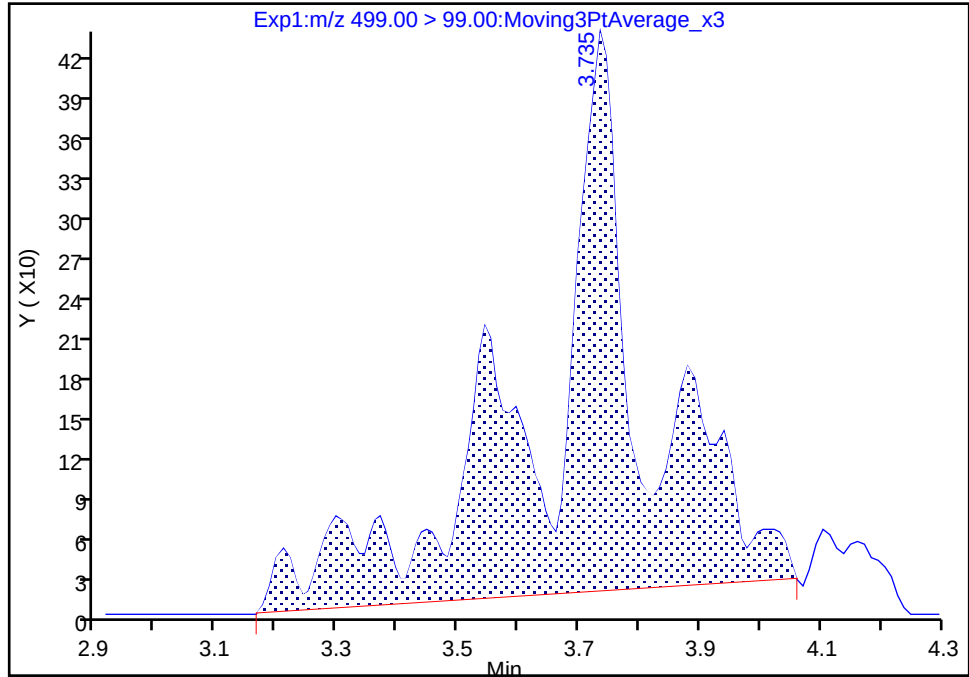
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

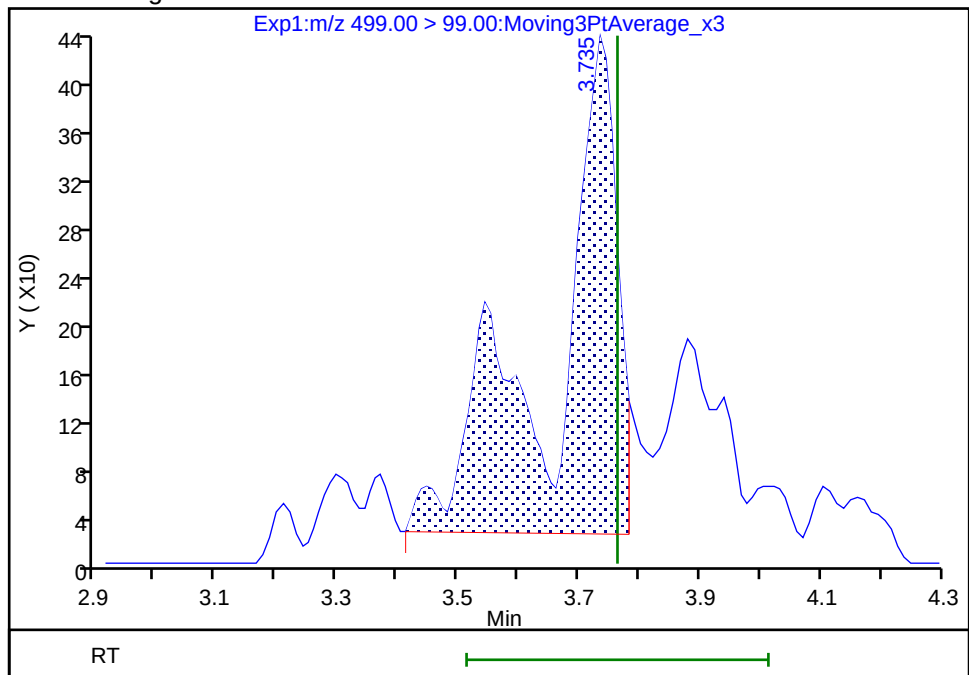
RT: 3.74
Area: 5191
Amount: 0.029608
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 3000
Amount: 0.018105
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:55:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 198 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

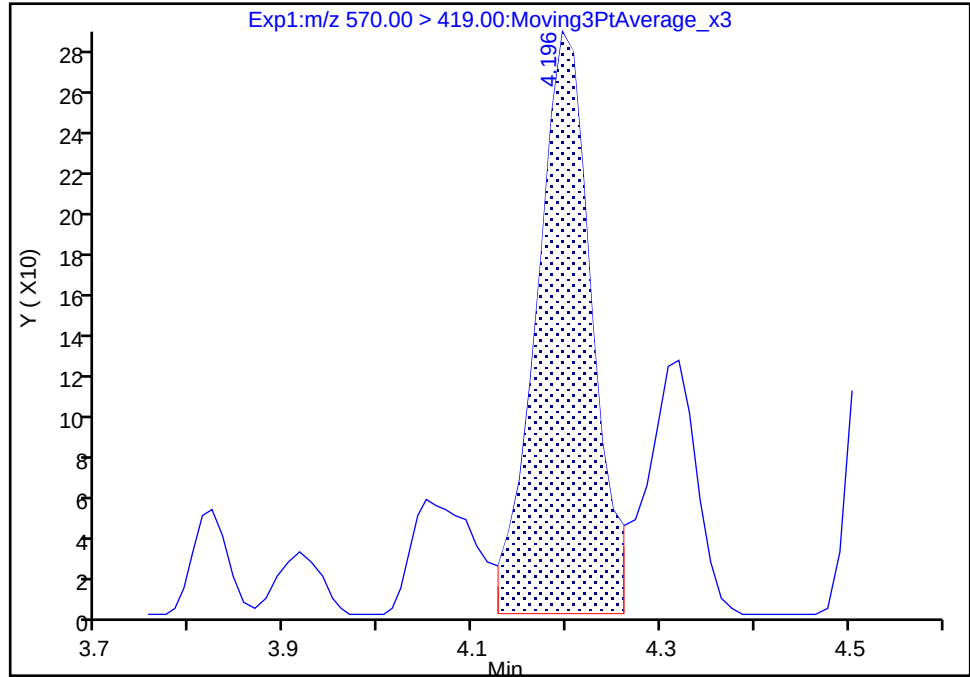
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d				
Injection Date:	30-Dec-2022 15:28:25	Instrument ID:	LC812		
Lims ID:	460-271837-A-4-A	Lab Sample ID:	200-271837-4		
Client ID:	BCS-21-24_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection 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

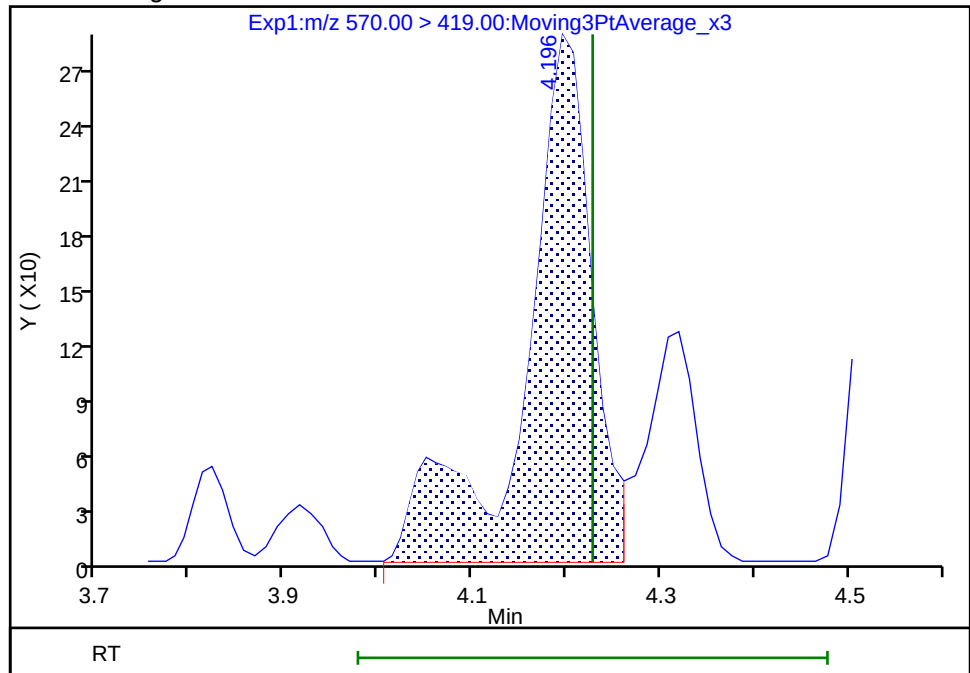
RT: 4.20
Area: 1168
Amount: -0.007398
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1432
Amount: -0.006442
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:56:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

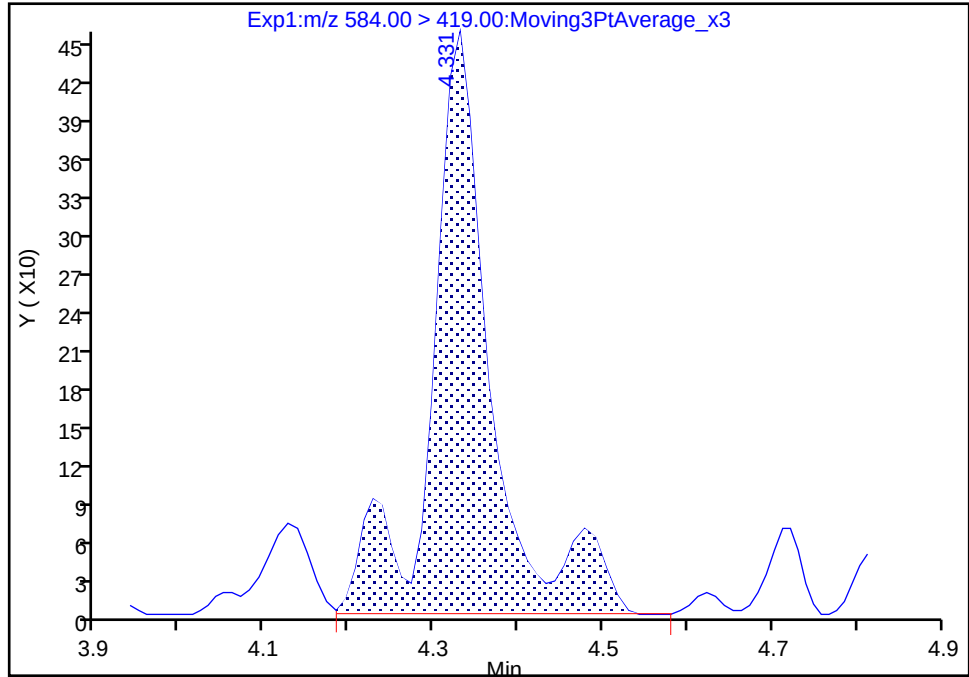
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A21.d
Injection Date: 30-Dec-2022 15:28:25 Instrument ID: LC812
Lims ID: 460-271837-A-4-A Lab Sample ID: 200-271837-4
Client ID: BCS-21-24_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul 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

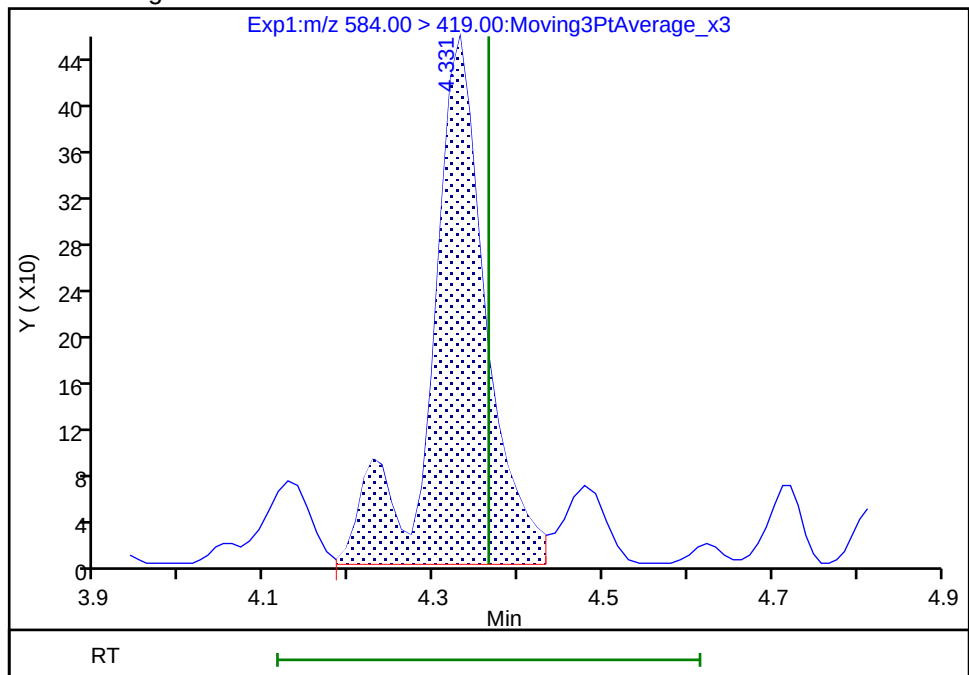
RT: 4.33
Area: 2260
Amount: 0.007403
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 2028
Amount: 0.006643
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 10:56:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: FB-21_122022P Lab Sample ID: 460-271837-5

Matrix: Water Lab File ID: PA221230C20.d

Analysis Method: 537 (modified) Date Collected: 12/20/2022 14:05

Extraction Method: 3535 Date Extracted: 12/29/2022 13:39

Sample wt/vol: 288 (mL) Date Analyzed: 12/31/2022 01:01

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187179 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.34	U	4.34	1.04
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.74	U	1.74	0.59
307-24-4	Perfluorohexanoic acid (PFHxA)	1.74	U	1.74	0.56
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.74	U	1.74	0.47
335-67-1	Perfluorooctanoic acid (PFOA)	1.74	U	1.74	0.66
375-95-1	Perfluorononanoic acid (PFNA)	1.74	U	1.74	0.43
335-76-2	Perfluorodecanoic acid (PFDA)	1.74	U	1.74	0.40
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.74	U	1.74	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	1.74	U	1.74	0.43
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.74	U	1.74	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.74	U	1.74	0.56
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.74	U	1.74	0.54
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.74	U	1.74	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.74	U	1.74	0.36
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.74	U	1.74	0.35
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.74	U	1.74	0.74
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.74	U	1.74	0.80
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.34	U	4.34	1.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.34	U	4.34	1.39
27619-97-2	6:2 FTS	4.34	U	4.34	1.13
39108-34-4	8:2 FTS	1.74	U	1.74	0.67

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: FB-21_122022P Lab Sample ID: 460-271837-5
 Matrix: Water Lab File ID: PA221230C20.d
 Analysis Method: 537 (modified) Date Collected: 12/20/2022 14:05
 Extraction Method: 3535 Date Extracted: 12/29/2022 13:39
 Sample wt/vol: 288 (mL) Date Analyzed: 12/31/2022 01:01
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187179 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	76		50-150
STL00992	13C4 PFBA	86		50-150
STL01893	13C5 PFPeA	85		50-150
STL00993	13C2 PFHxA	94		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	92		50-150
STL00995	13C5 PFNA	90		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	90		50-150
STL00998	13C2 PFDoA	92		50-150
STL02116	13C2 PFTeDA	89		50-150
STL02337	13C3 PFBS	88		50-150
STL00994	18O2 PFHxS	86		50-150
STL00991	13C4 PFOS	81		50-150
STL02118	d3-NMeFOSAA	79		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	104		50-150
STL02280	M2-8:2 FTS	89		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
 Lims ID: 460-271837-A-5-A
 Client ID: FB-21_122022P
 Sample Type: Client
 Inject. Date: 31-Dec-2022 01:01:02 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-271837-A-5-A
 Misc. Info.: 200-0053867-020 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:50 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 13:42:58

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.128	2.076	0.052	0.640	2849324	1.07		85.8	11437	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.145	2.076	0.069	1.008	36284	0.0154			1.7	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.718	2153763	1.06		85.1	2602	
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.722	2245853	1.02		87.9	137851	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	2207	0.000999	Target=2.09		3.1	M
298.90 > 99.00	2.426	2.400	0.026	1.011	1053		2.10(1.04-3.13)		0.6	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.676	2.725	-0.049	0.805	2504186	1.18		94.5	4423	
D 11 18O2 PFHxS										
403.00 > 84.00	2.988	3.088	-0.100	0.899	1638007	1.02		86.5	2422	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	2.988	3.088	-0.100	1.000	6377	0.004079	Target=3.66		18.7	RM
399.00 > 99.00	2.988	3.088	-0.100	1.000	3551		1.80(1.83-5.49)		3.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	2.999	3.099	-0.100	0.902	2584128	1.19		94.8	3591	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.010	3.099	-0.089	1.004	2413	0.001072	Target=3.97		0.6	M
363.00 > 169.00	2.999	3.099	-0.100	1.000	948		2.55(1.98-5.95)		1.9	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.315	3.439	-0.124	0.997	332844	1.24		104	747	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.315	3.439	-0.124	1.000	699	-0.0107			0.9	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	3.325	3.448	-0.123	1.000	2830175	1.15		92.3	3995	
* 62 13C2 PFOA										
415.00 > 370.00	3.325	3.448	-0.123		2961030	1.25			4395	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.335	3.448	-0.114	1.003	4751	0.001963	Target=2.79	0.3		RM
413.00 > 169.00	3.335	3.448	-0.114	1.003	519		9.15(1.40-4.19)	0.8		M
D 18 13C4 PFOS										
503.00 > 80.00	3.626	3.764	-0.138	1.091	1053586	0.9695		81.1	2600	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.626	3.764	-0.138	1.000	6230	0.005810	Target=5.11	3.6		M
499.00 > 99.00	3.724	3.764	-0.040	1.027	1672		3.73(2.55-7.66)	2.3		M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.652	3.783	-0.131	1.002	2676	0.001207	Target=8.55	0.9		RM
463.00 > 169.00	3.635	3.783	-0.148	0.998	105		25.49(4.28-12.83)	1.8		M
D 19 13C5 PFNA										M
468.00 > 423.00	3.643	3.783	-0.140	1.096	2672103	1.12		89.7	5553	M
D 23 13C2 PFDA										
515.00 > 470.00	3.939	4.081	-0.142	1.185	2790919	1.15		92.0	3167	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.950	4.093	-0.143	1.188	350499	1.07		89.1	1315	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	3.950	4.093	-0.143	1.000	710	0.001500		6.2		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.014	4.150	-0.136	1.002	729	0.000459		2.5		M
D 21 13C8 FOSA										
506.00 > 78.00	4.005	4.150	-0.145	1.205	1902308	0.9557		76.5	2140	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.081	4.228	-0.147	1.227	489577	0.99		79.2	1612	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.092	4.228	-0.136	1.003	327	-0.0107		1.1		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.207	4.353	-0.146	1.265	2505069	1.13		90.1	4741	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.217	4.365	-0.148	1.000	380	0.001001		4.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.217	4.365	-0.148	1.268	529944	1.09		87.1	945	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.432	4.591	-0.159	1.000	3348	0.001513	Target=7.77	1.4		RM
613.00 > 169.00	4.432	4.591	-0.159	1.000	178		18.81(3.89-11.66)	2.8		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.432	4.591	-0.159	1.333	2610386	1.15		92.2	3020	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.643	4.804	-0.161	1.048	2259	0.001068	Target=5.21	0.8		M
663.00 > 169.00	4.643	4.804	-0.161	1.048	303		7.46(2.60-7.81)	5.4		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

42 Perfluorotetradecanoic acid

M

713.00 > 169.00 4.837 5.012 -0.175 1.000 515 0.002162 Target=0.89 15.3 M

713.00 > 219.00 4.848 5.012 -0.164 1.002 777 0.66(0.44-1.33) 17.9 M

D 43 13C2 PFTeDA

715.00 > 670.00 4.837 5.012 -0.175 1.455 2174465 1.11 88.8 3672

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d

Injection Date: 31-Dec-2022 01:01:02

Instrument ID: LC812

Lims ID: 460-271837-A-5-A

Lab Sample ID: 200-271837-5

Client ID: FB-21_122022P

Operator ID: lc812tech

ALS Bottle#: 20

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

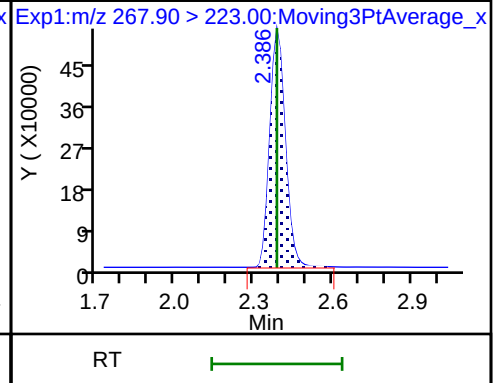
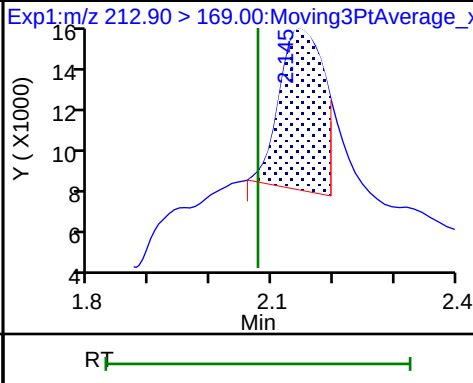
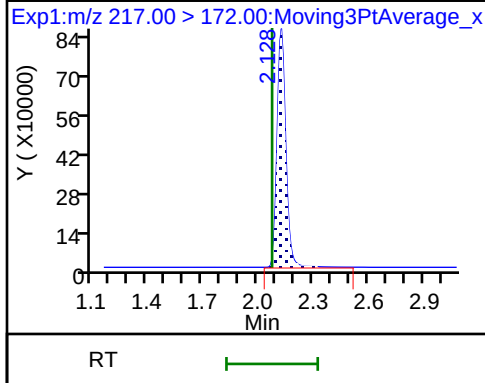
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

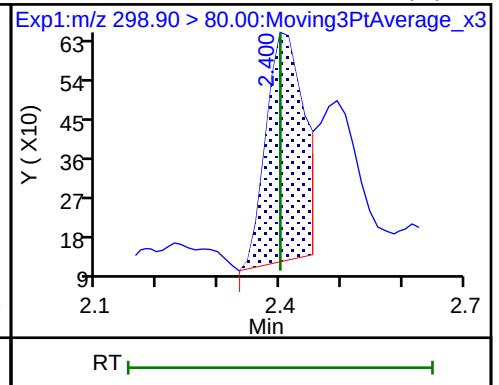
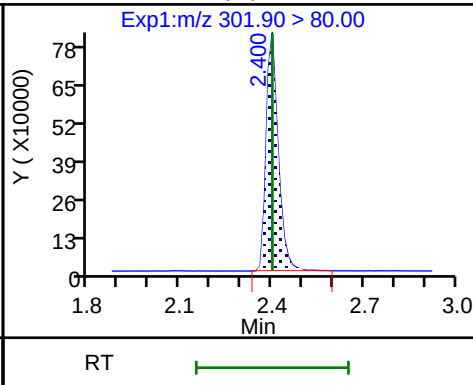
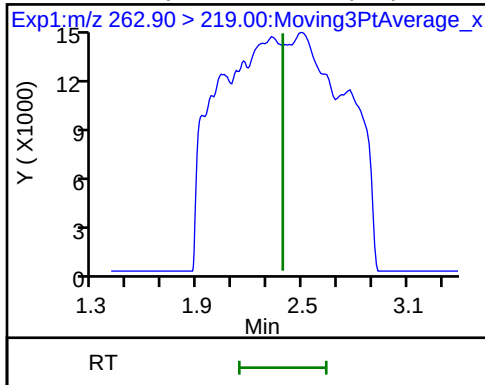
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS (M)

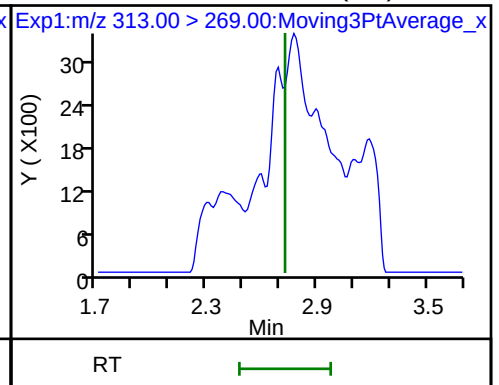
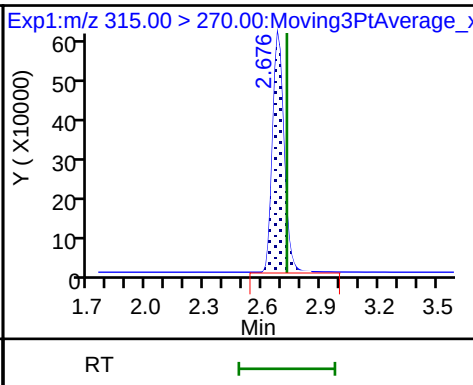
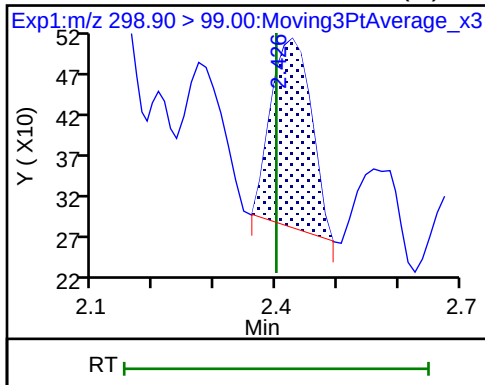
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

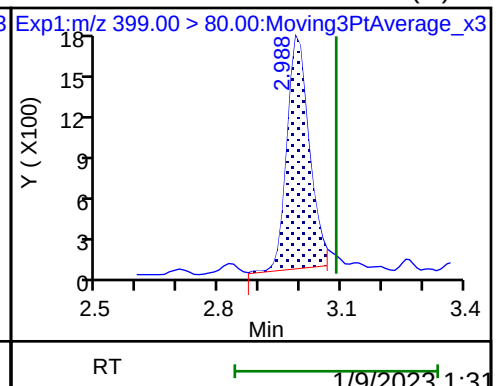
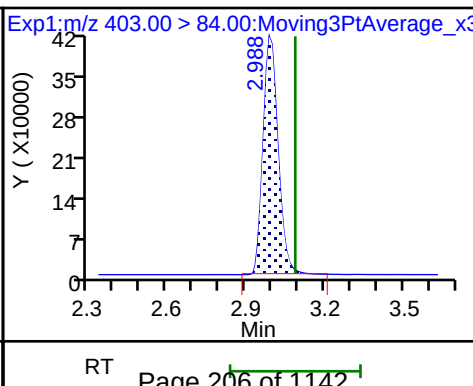
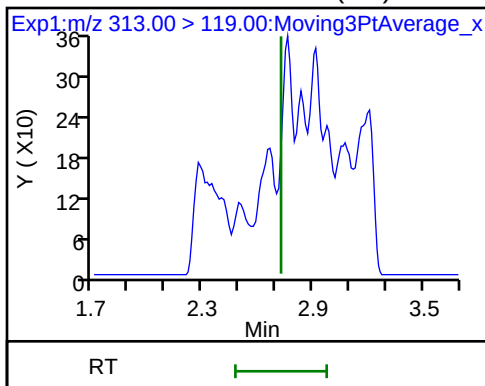
6 Perfluorohexanoic acid (ND)

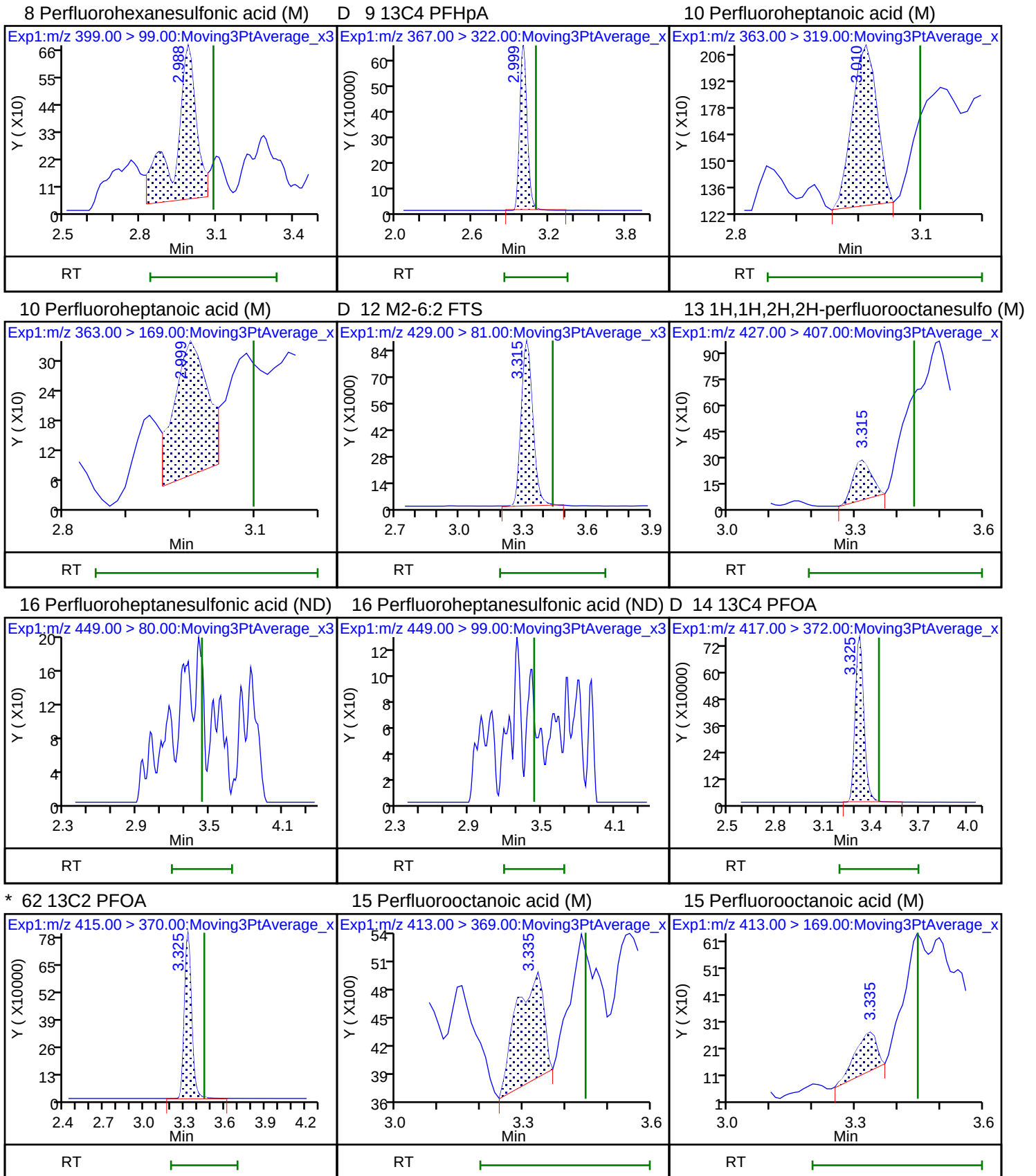


6 Perfluorohexanoic acid (ND)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

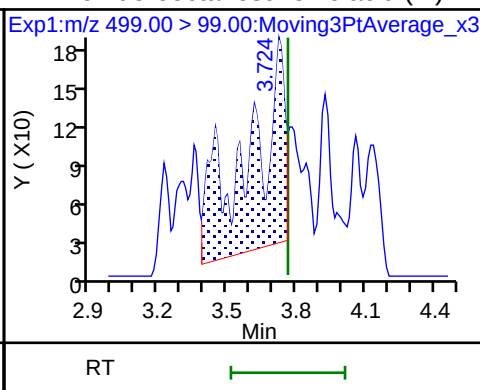
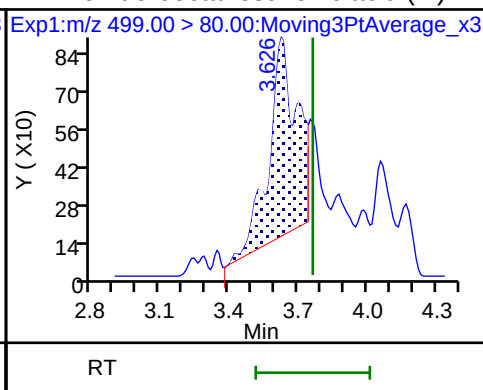
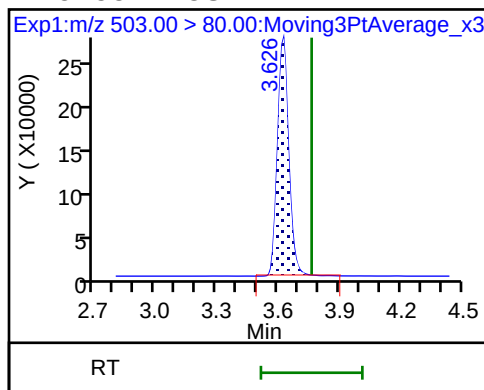




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

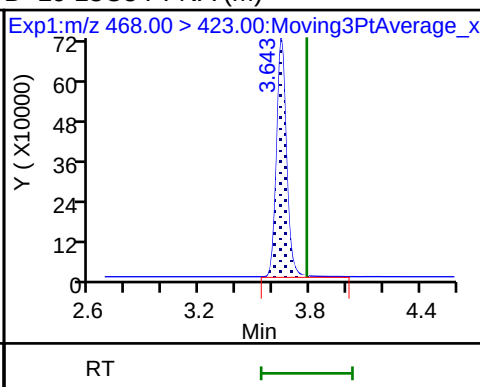
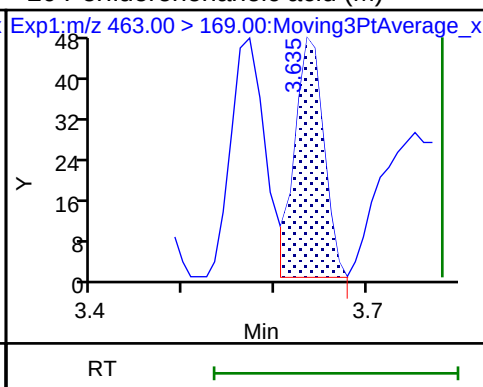
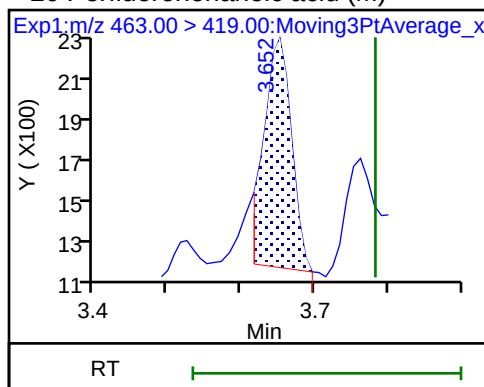
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

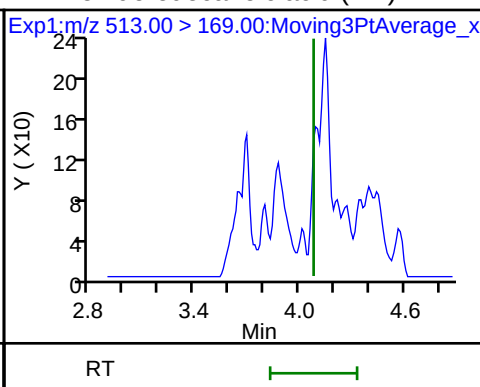
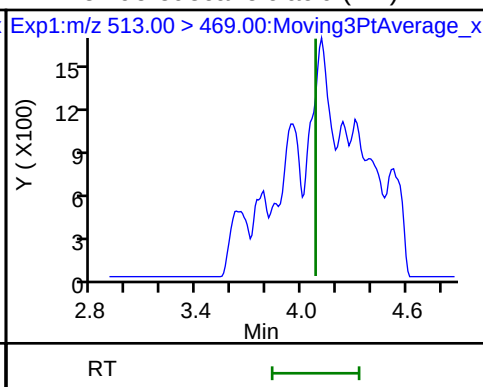
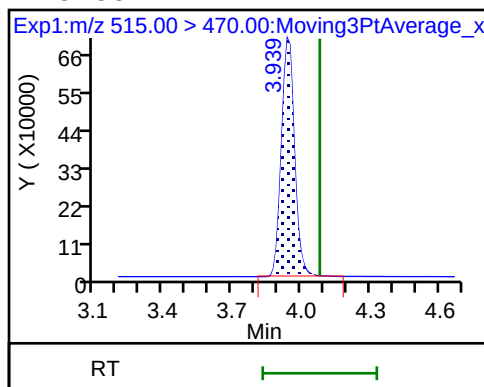
D 19 13C5 PFNA (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

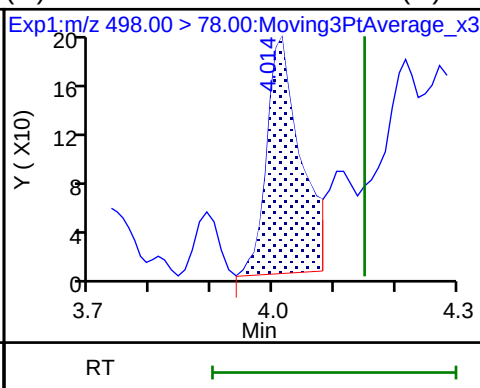
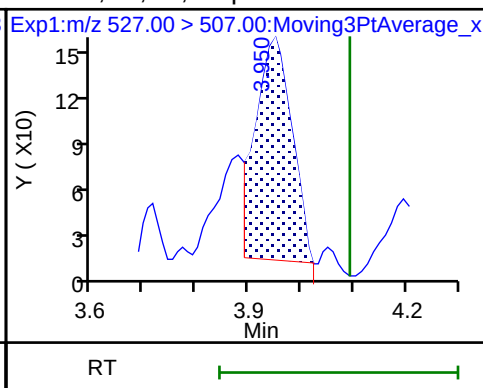
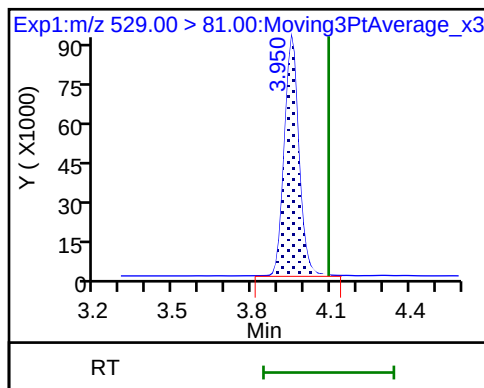
24 Perfluorodecanoic acid (ND)



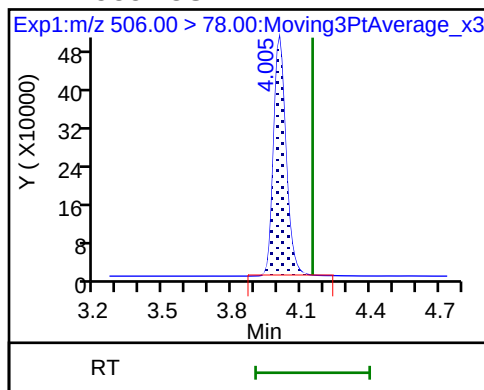
D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfo (M)

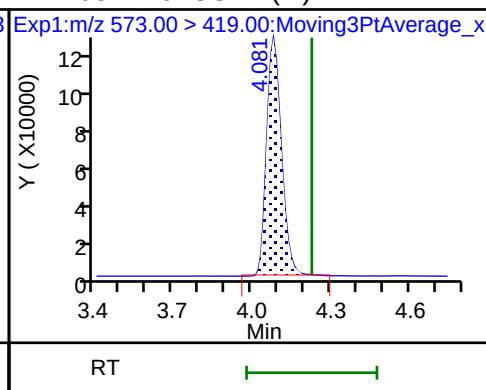
22 Perfluorooctanesulfonamide (M)



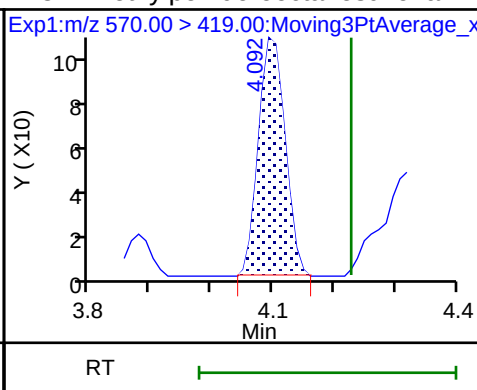
D 21 13C8 FOSA



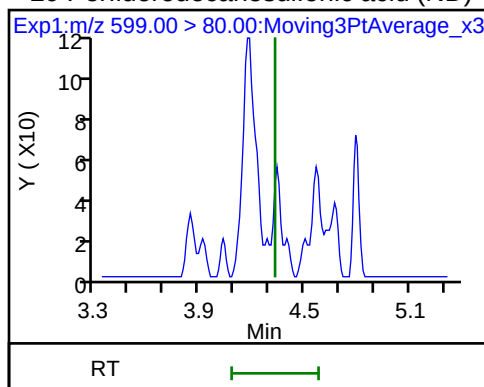
D 27 d3-NMeFOSAA (M)



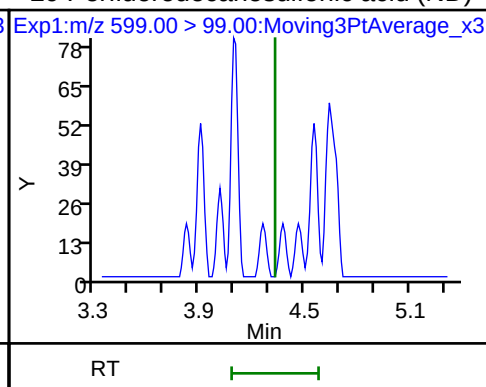
28 N-methylperfluorooctanesulfonami (M)



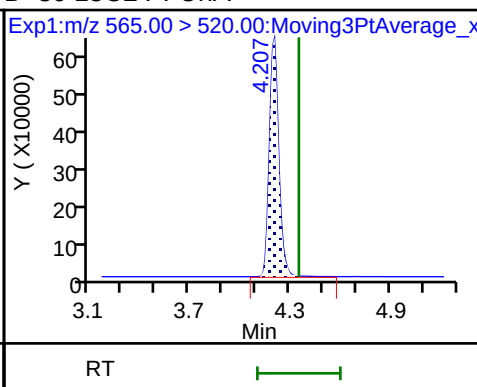
29 Perfluorodecanesulfonic acid (ND)



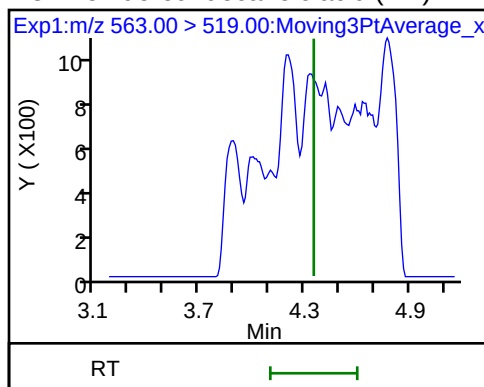
29 Perfluorodecanesulfonic acid (ND)



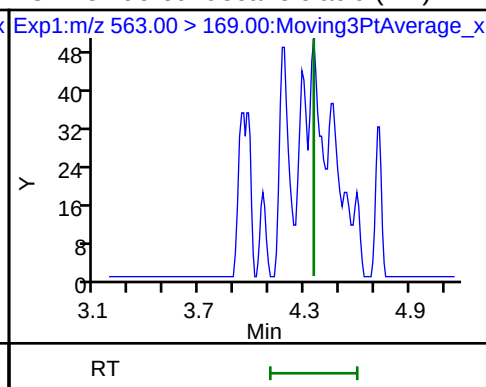
D 30 13C2 PFUnA



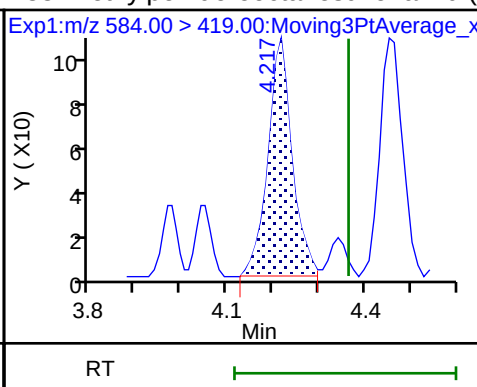
31 Perfluoroundecanoic acid (ND)



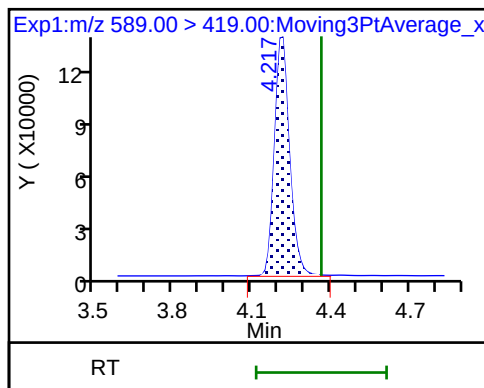
31 Perfluoroundecanoic acid (ND)



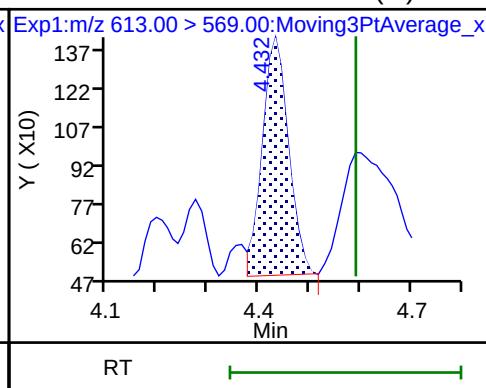
33 N-ethylperfluorooctanesulfonamid (M)



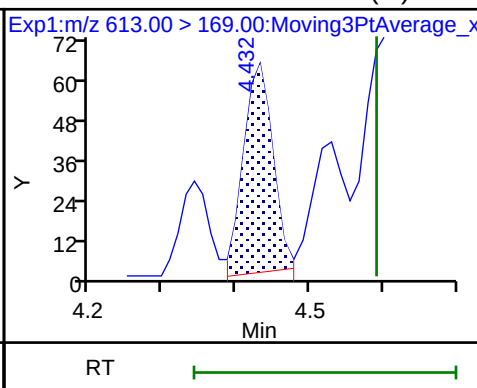
D 32 d5-NEtFOSAA



37 Perfluorododecanoic acid (M)



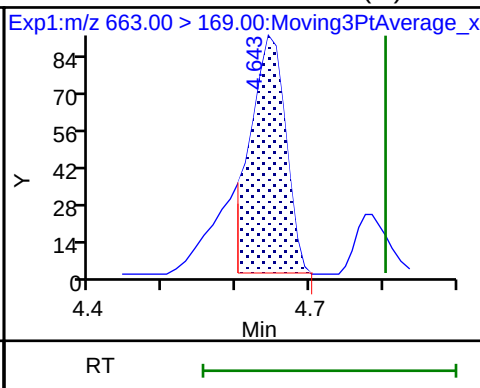
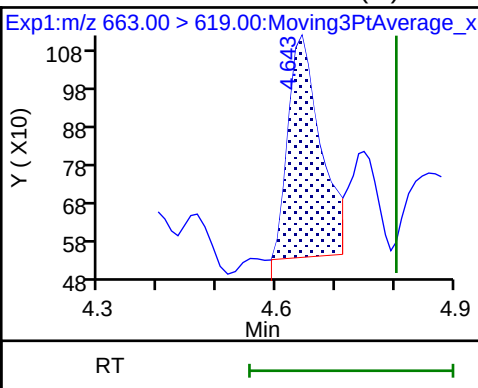
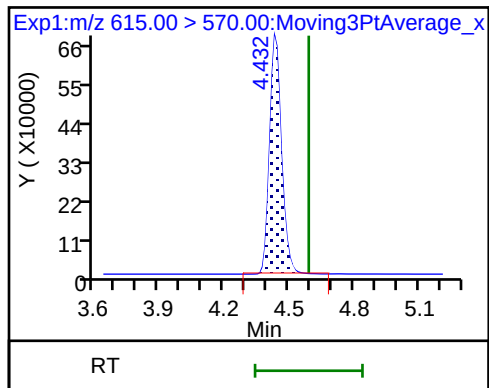
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

41 Perfluorotridecanoic acid (M)

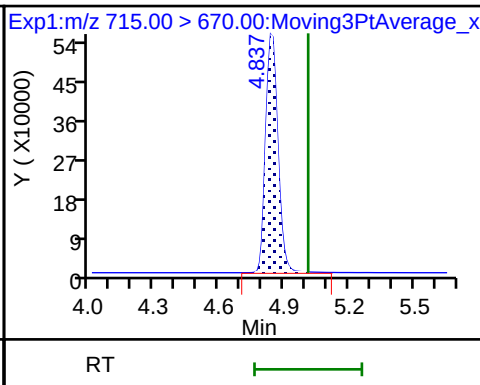
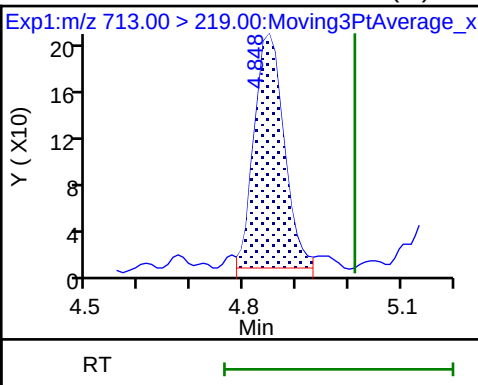
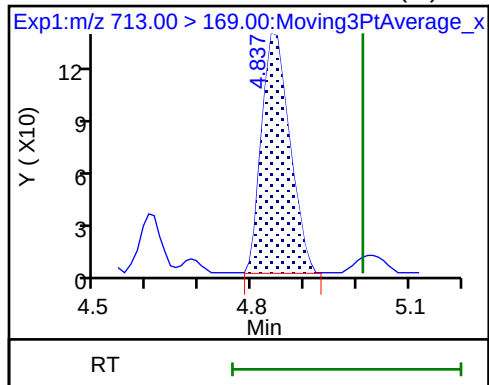
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

D 43 13C2 PFTeDA



Eurofins Burlington

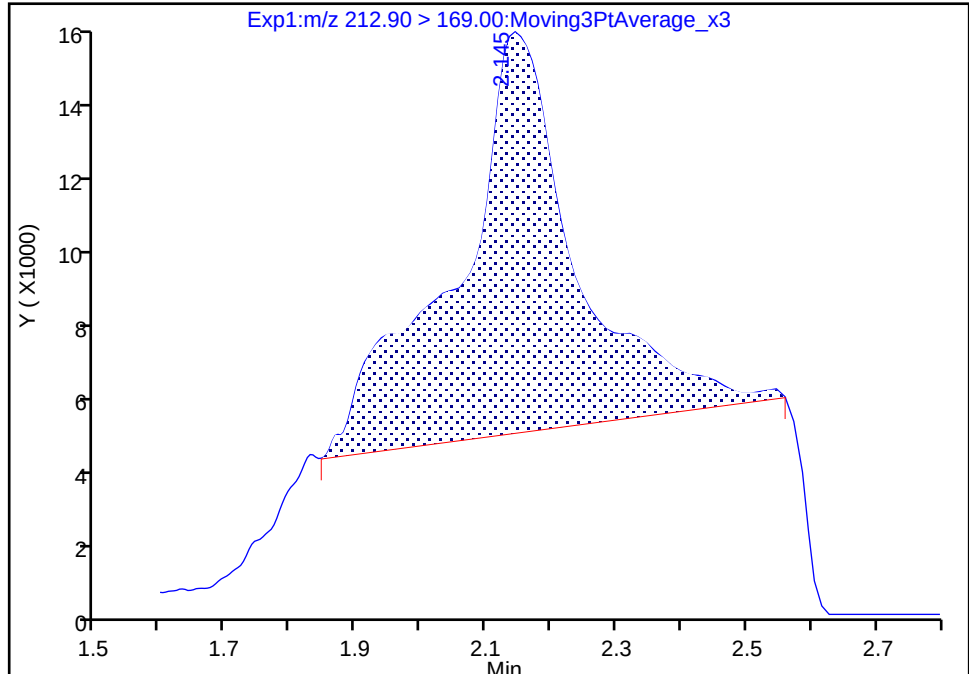
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

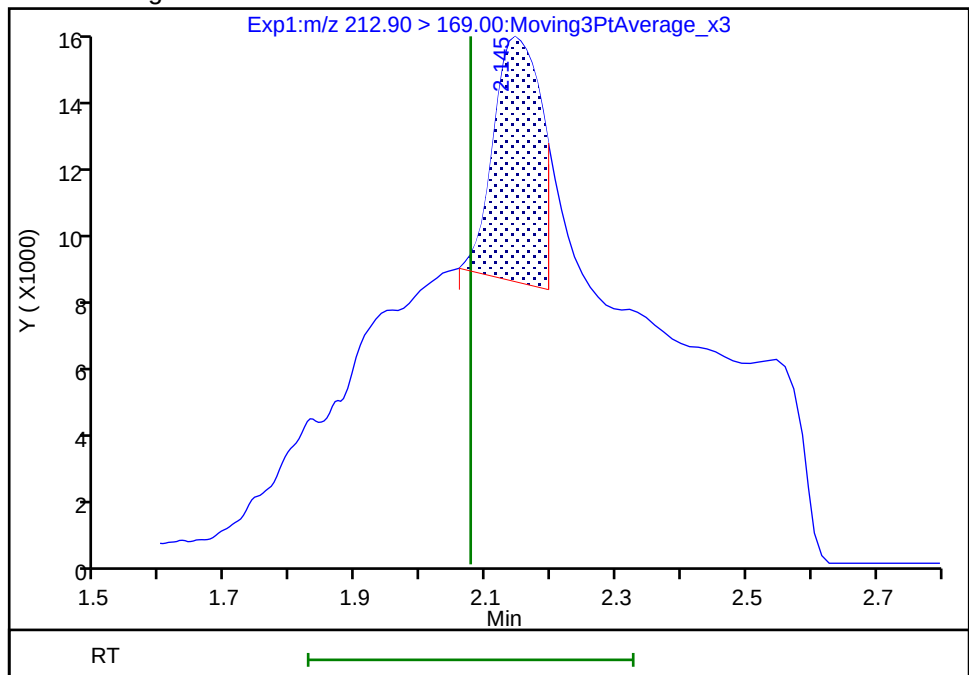
RT: 2.14
Area: 139194
Amount: 0.059217
Amount Units: ng/ml

Processing Integration Results



RT: 2.14
Area: 36284
Amount: 0.015436
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:38:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

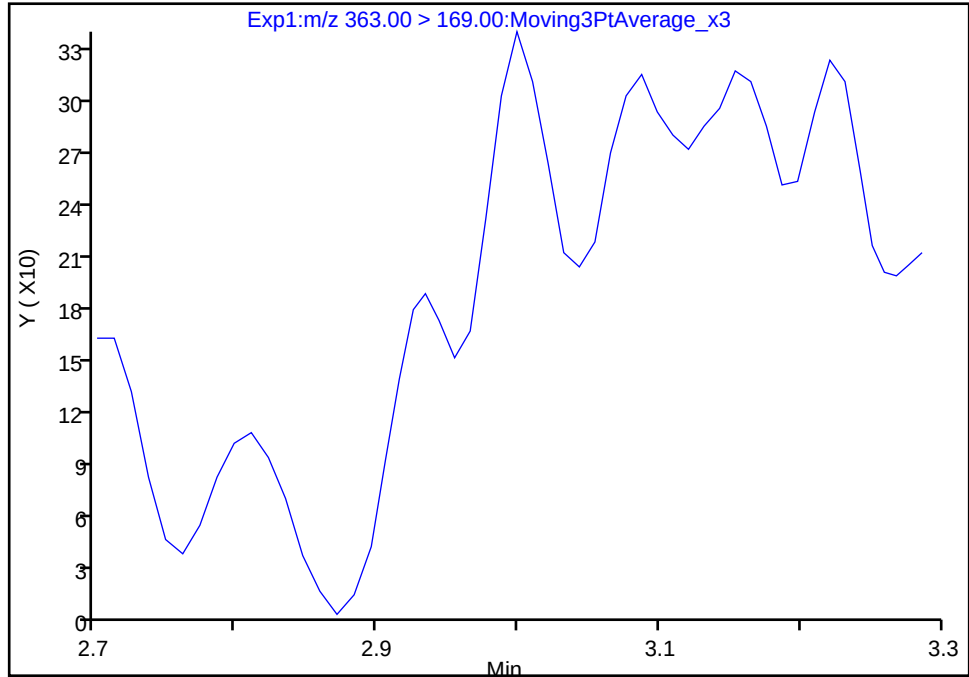
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

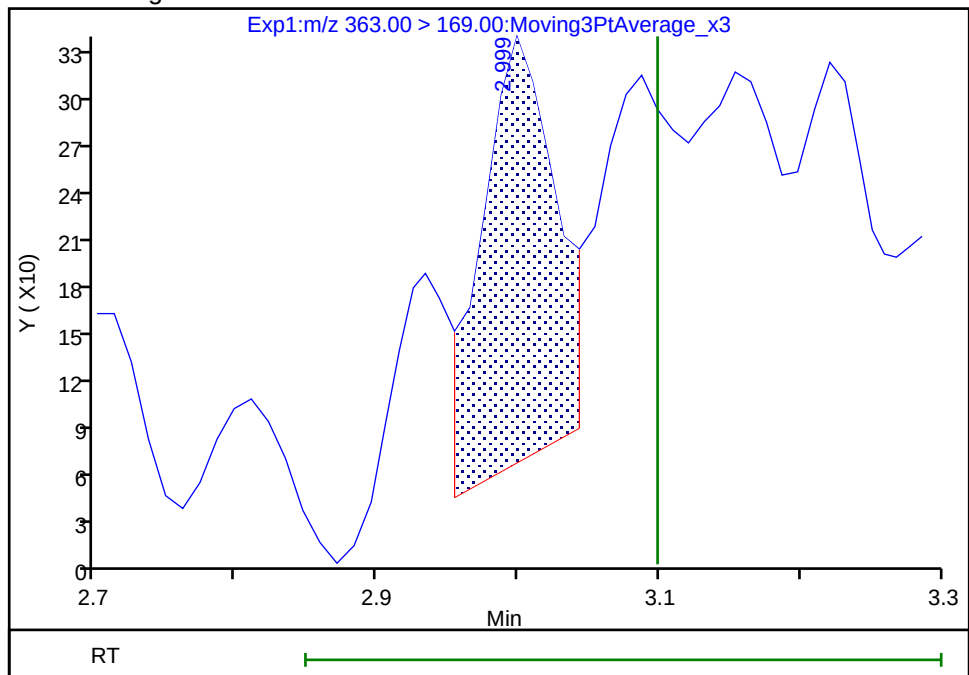
Signal: 2

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.00
Area: 948
Amount: 0.001072
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 13:39:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

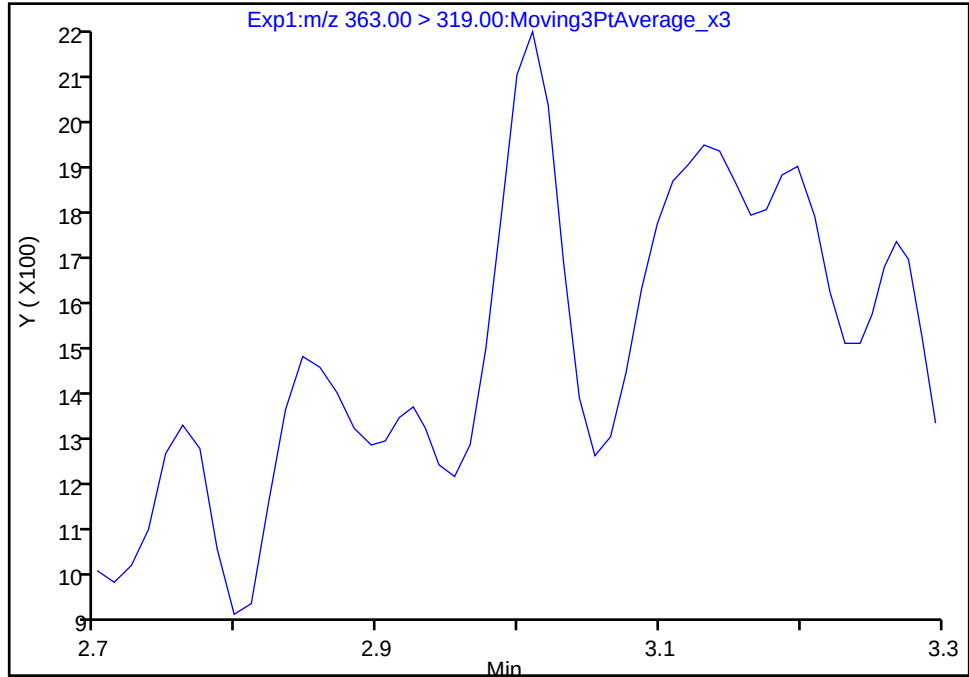
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

10 Perfluoroheptanoic acid, CAS: 375-85-9

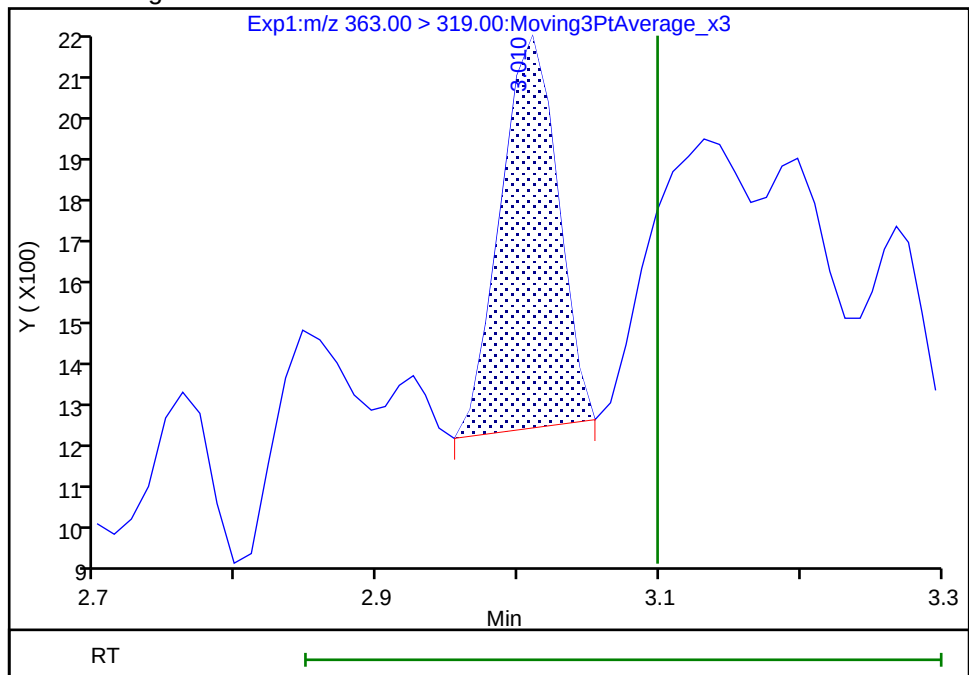
Signal: 1

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 2413
Amount: 0.001072
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 13:39:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 213 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

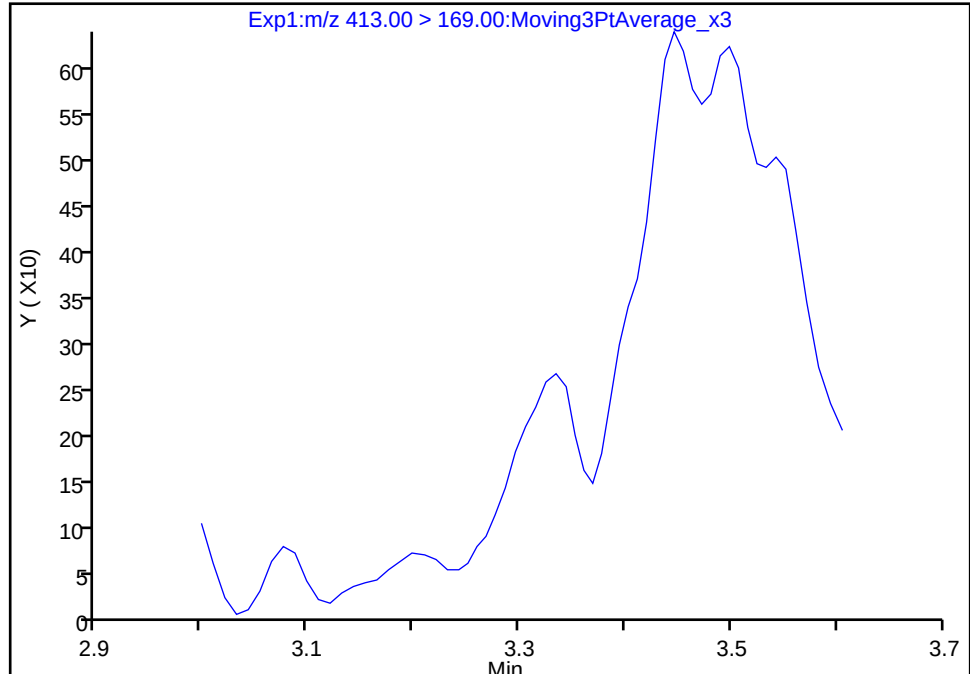
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

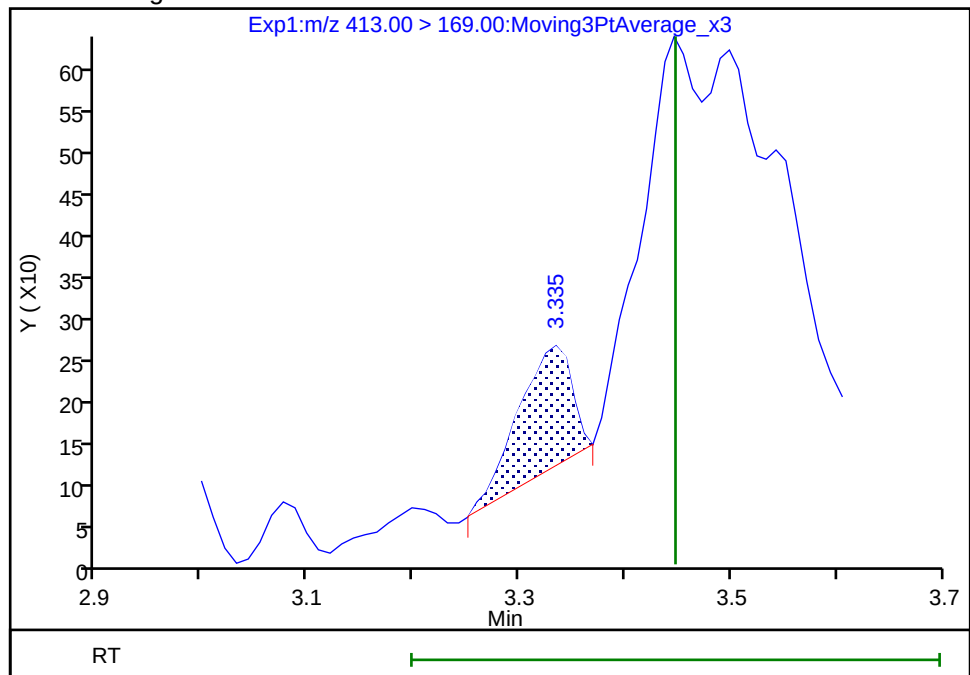
Not Detected
Expected RT: 3.45

Processing Integration Results



RT: 3.33
Area: 519
Amount: 0.001963
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:40:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

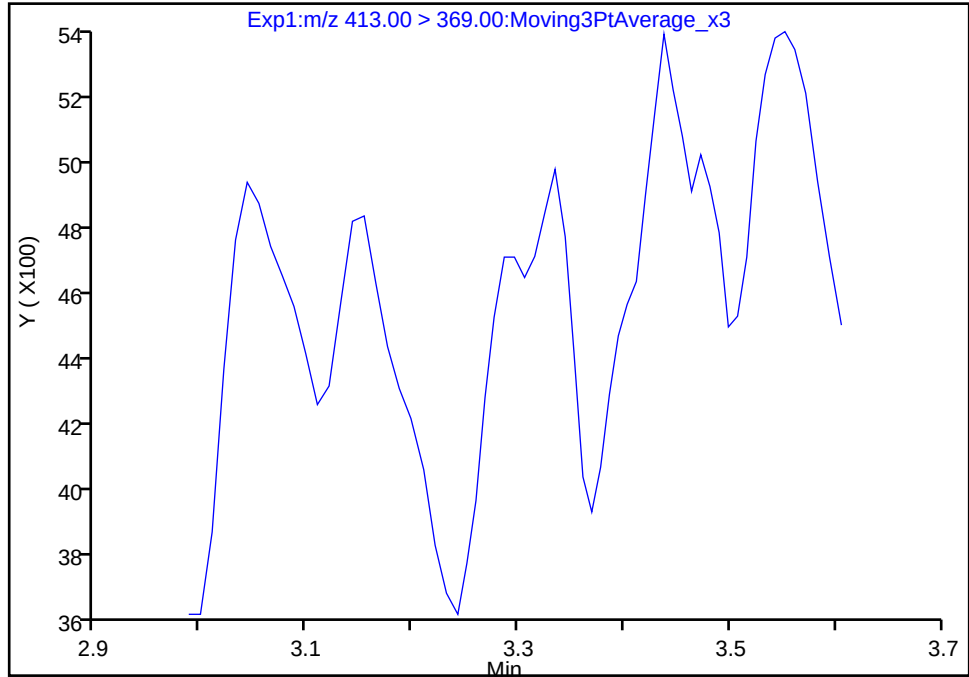
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

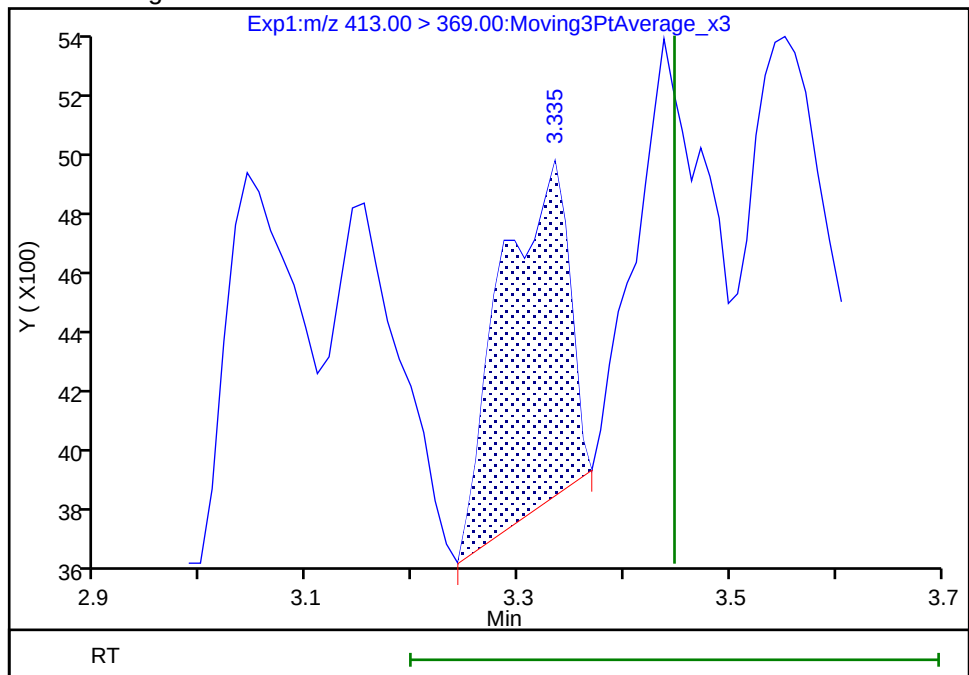
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.33
Area: 4751
Amount: 0.001963
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:40:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 215 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

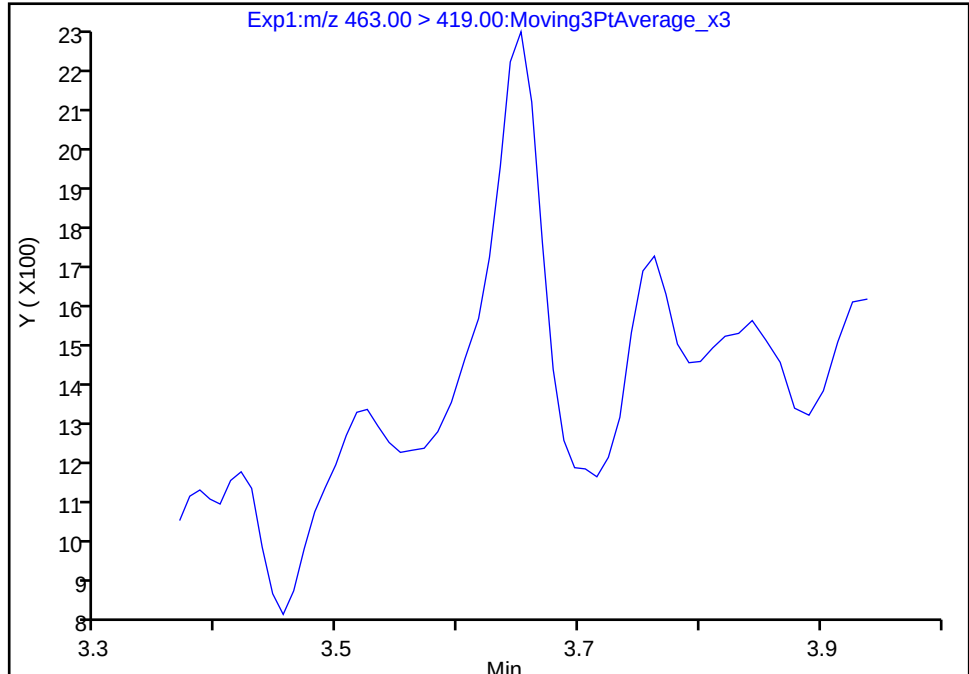
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	20

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

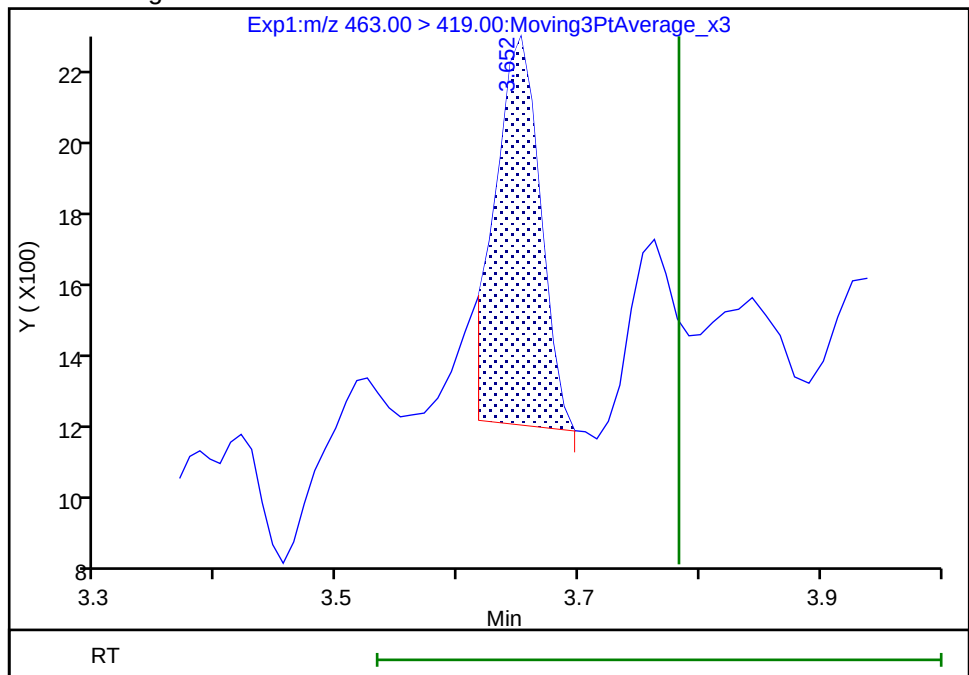
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.65
Area: 2676
Amount: 0.001207
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:41:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

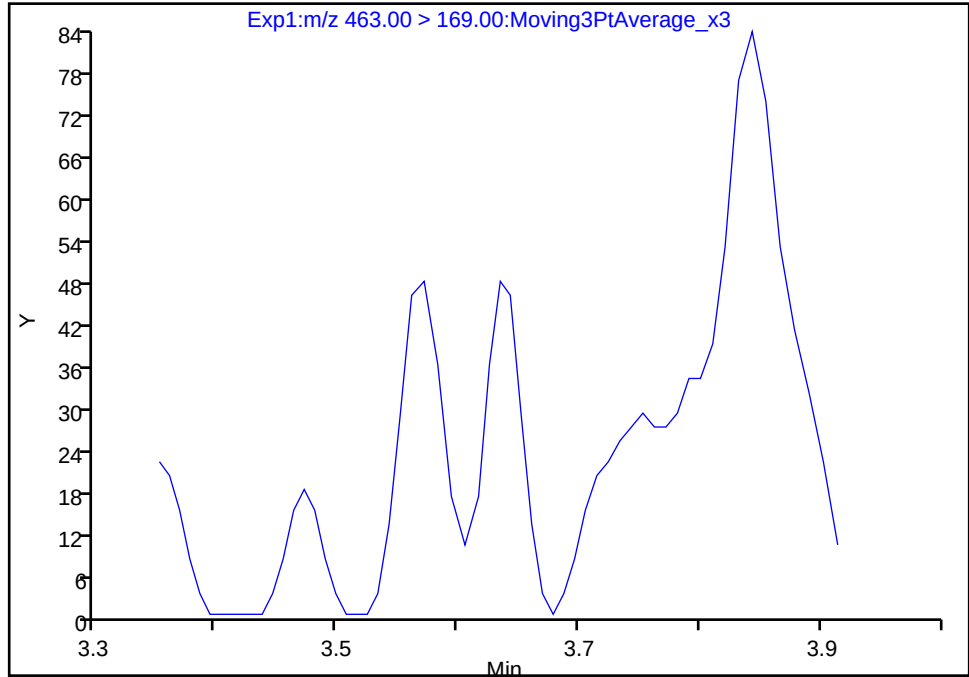
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

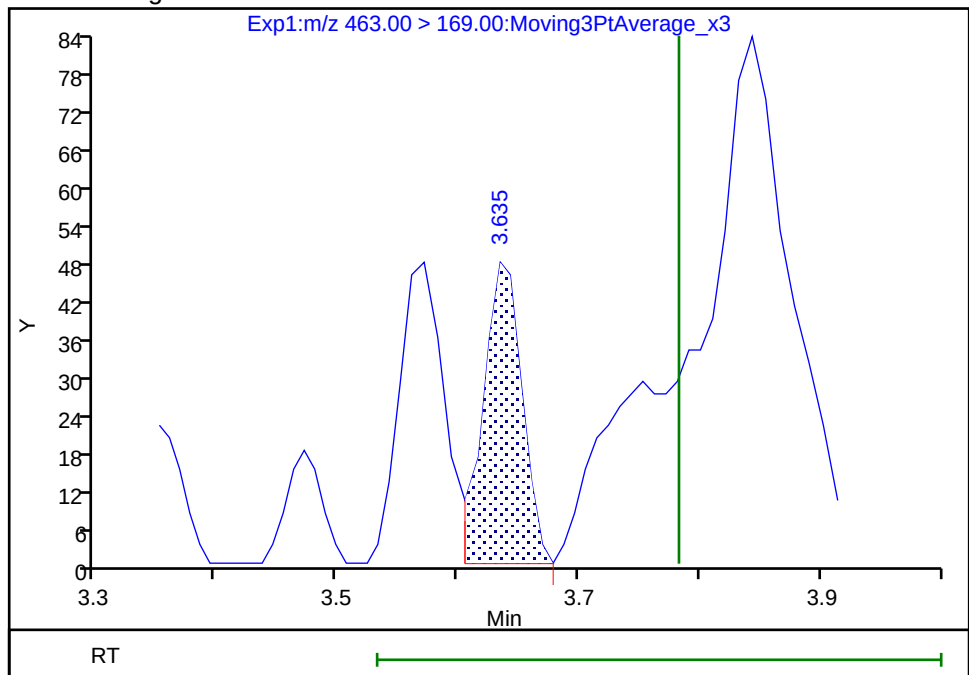
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.63
Area: 105
Amount: 0.001207
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:41:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

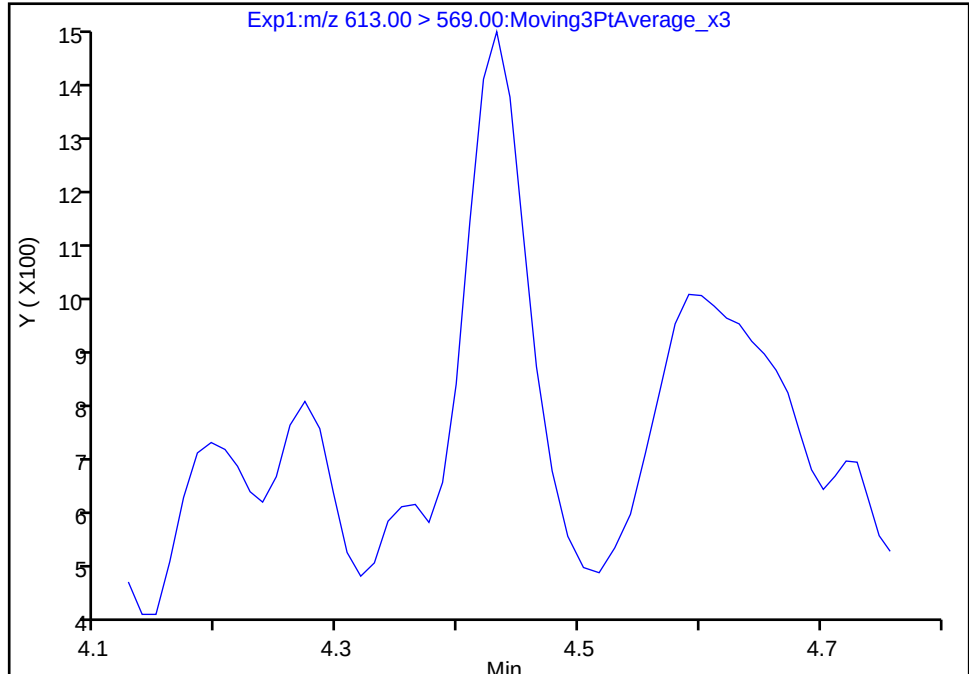
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

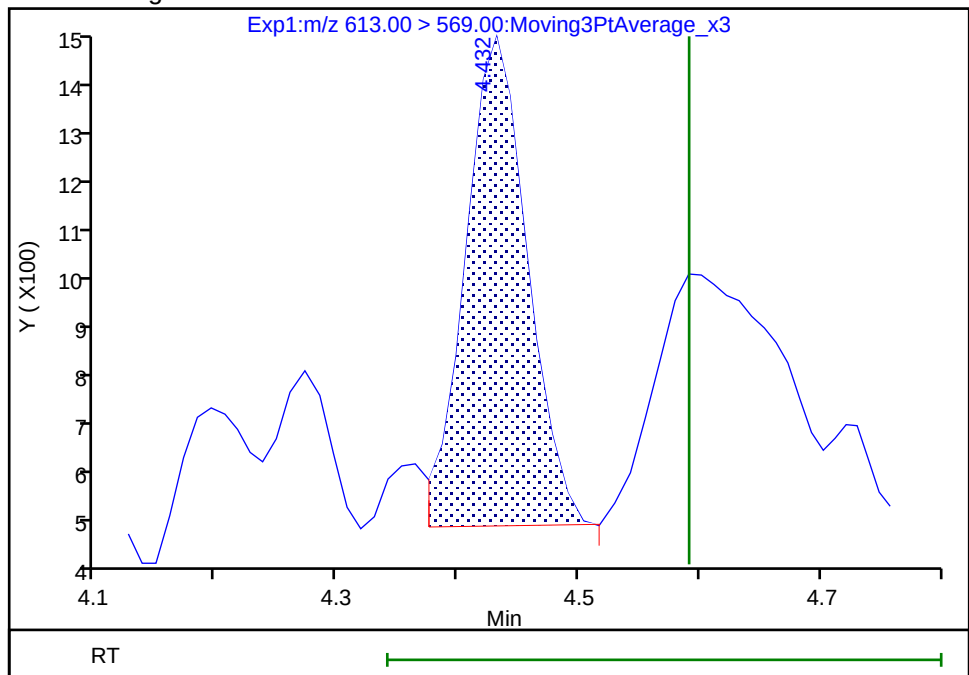
Signal: 1

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:42:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

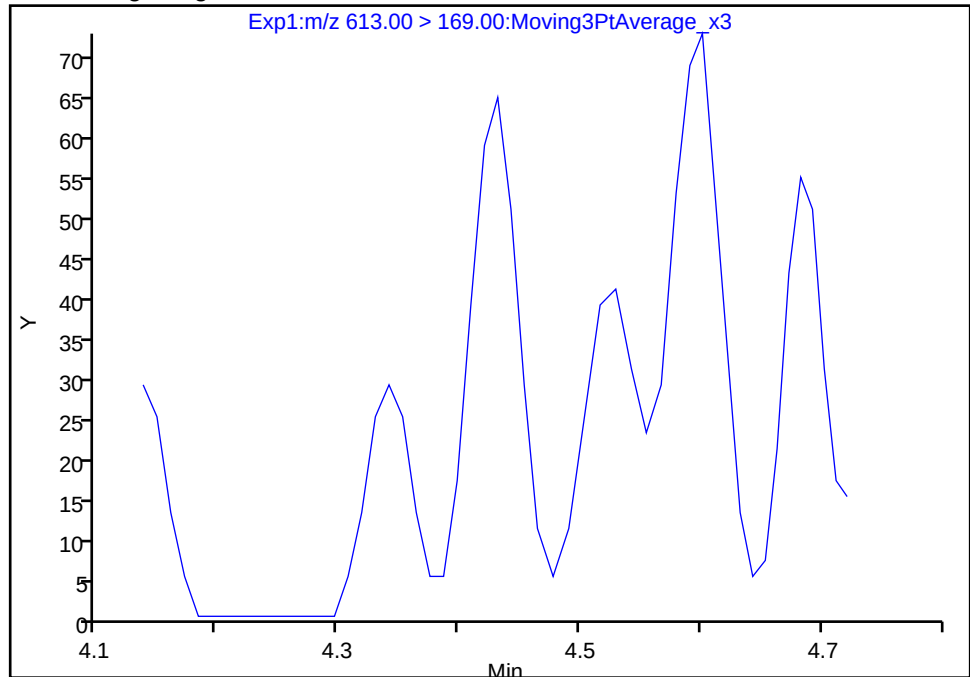
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

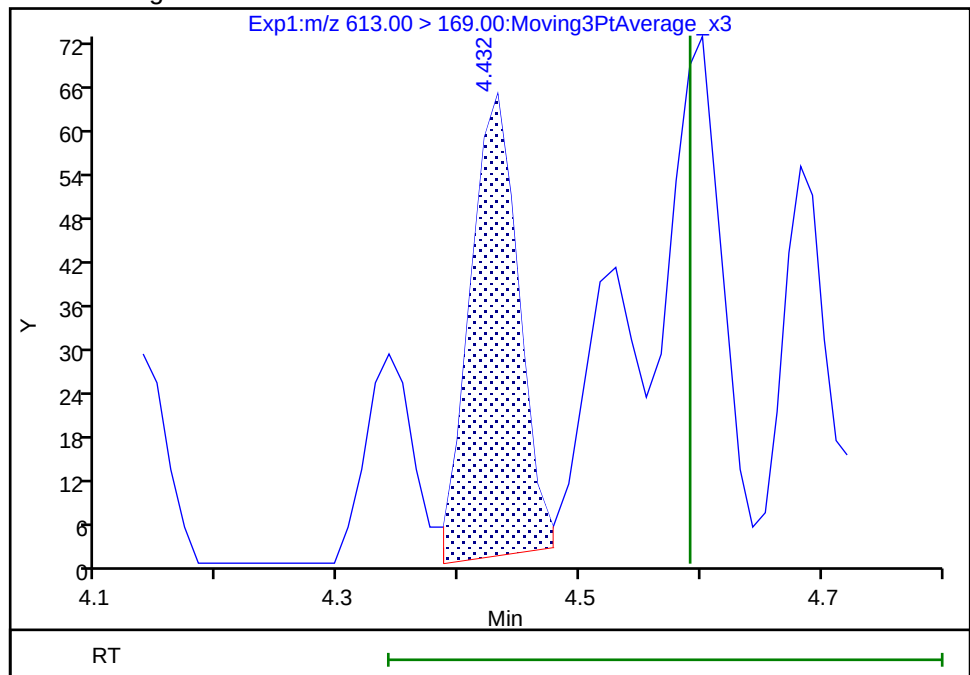
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 178
Amount: 0.001513
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:42:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

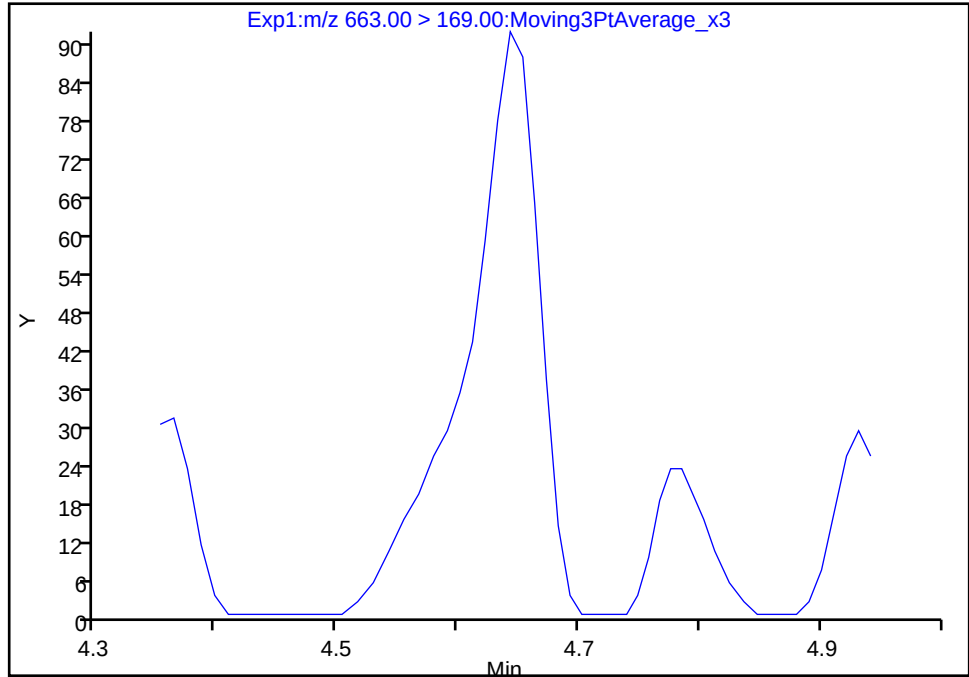
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

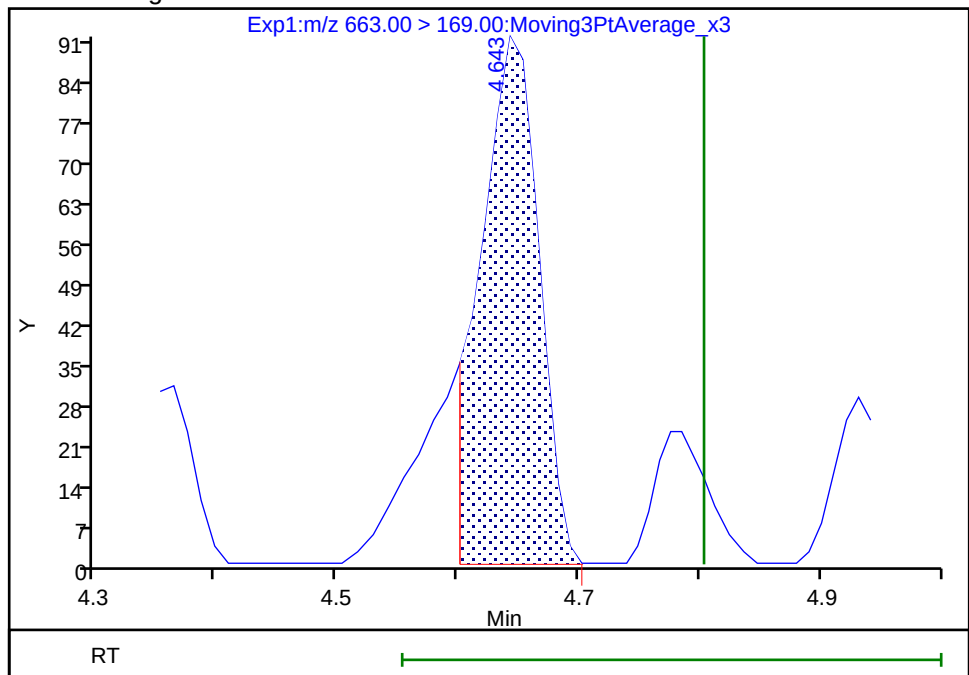
Signal: 2

Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:42:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

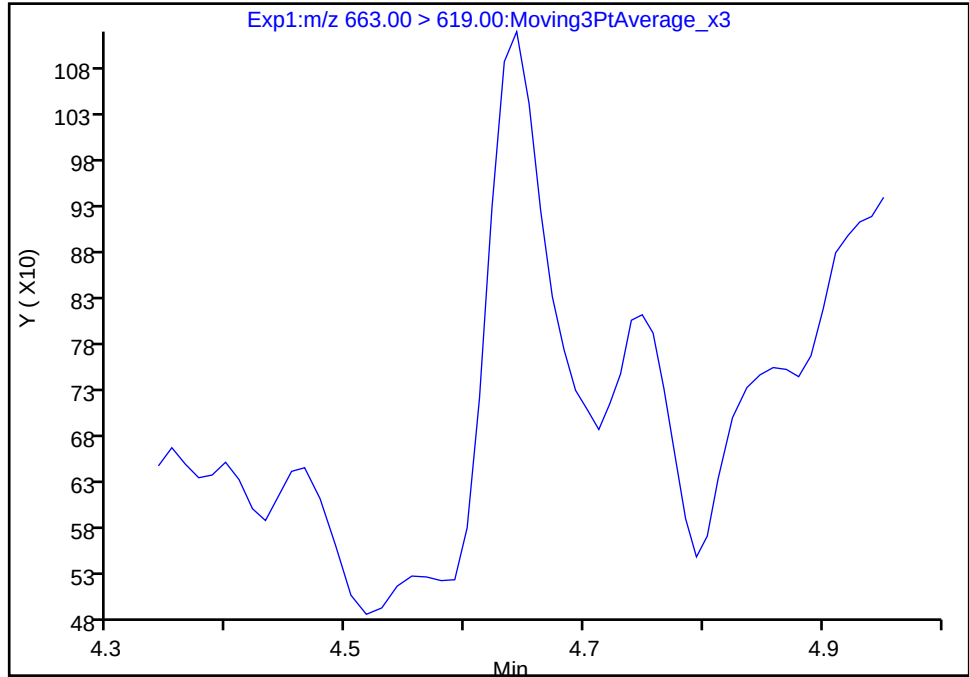
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

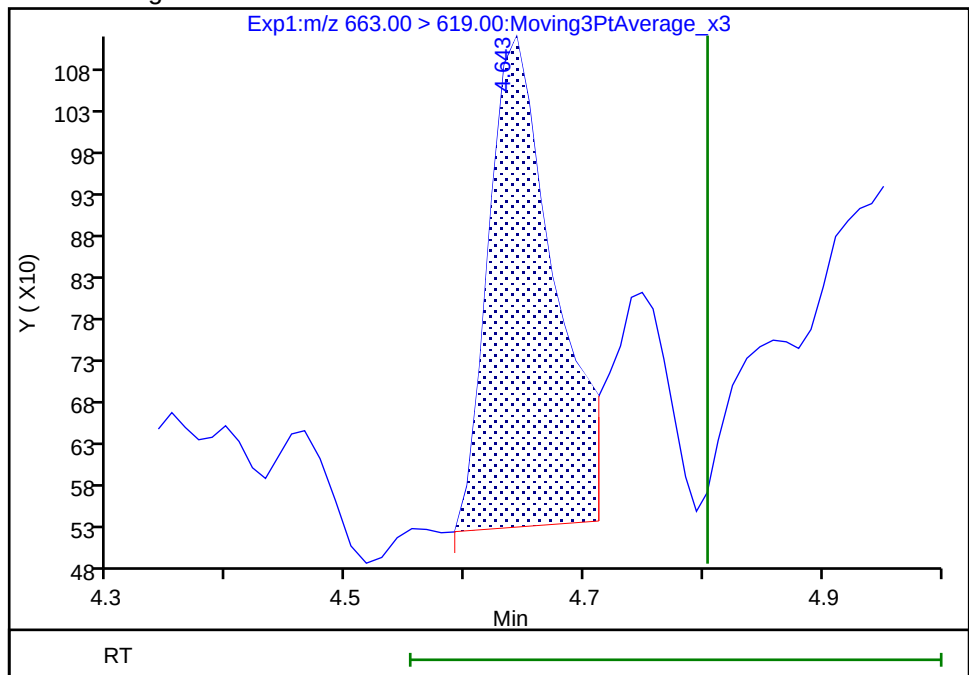
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 2259
Amount: 0.001068
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:42:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

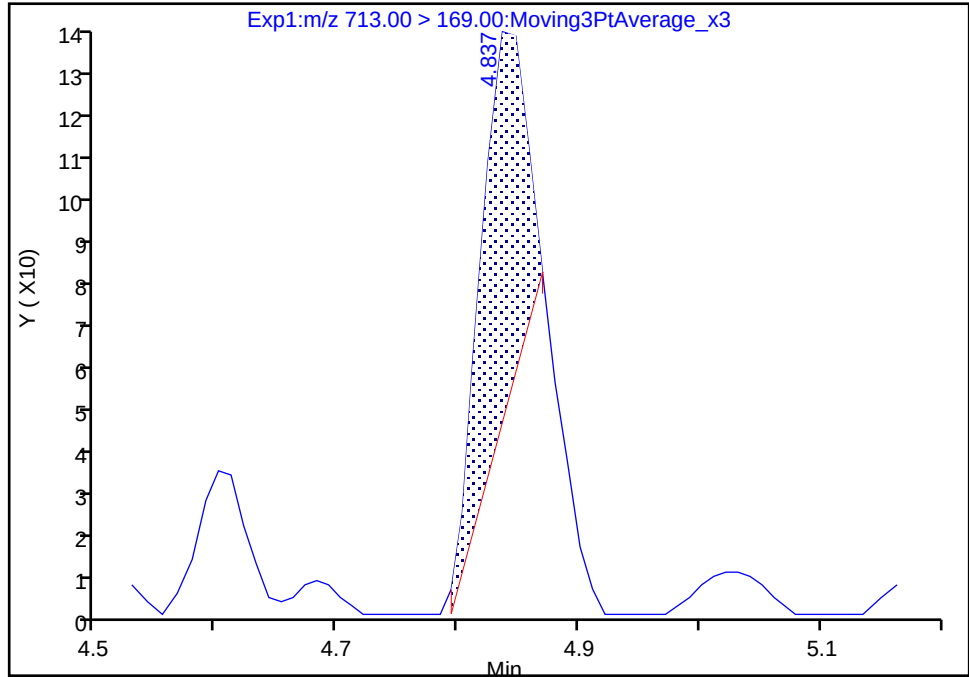
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

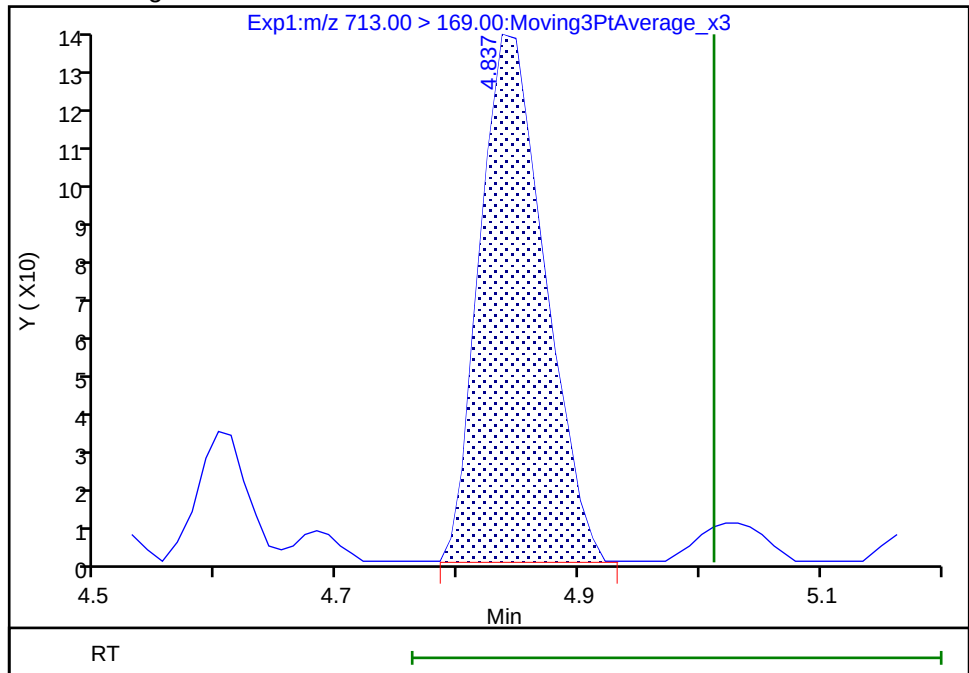
RT: 4.84
Area: 234
Amount: 0.000983
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 515
Amount: 0.002162
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:42:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

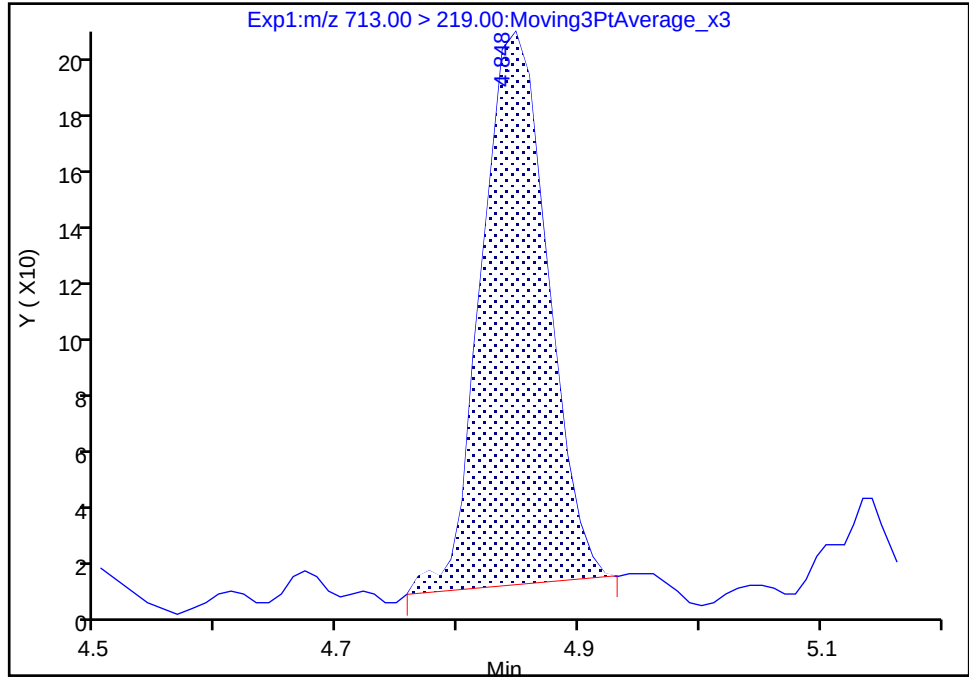
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

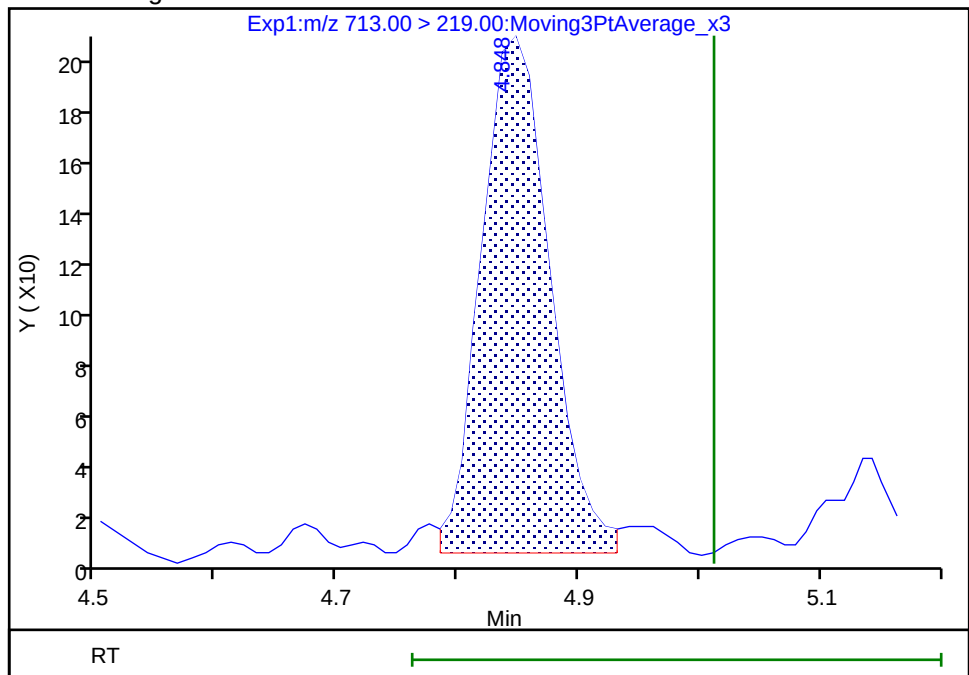
RT: 4.85
Area: 729
Amount: 0.000983
Amount Units: ng/ml

Processing Integration Results



RT: 4.85
Area: 777
Amount: 0.002162
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:42:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 223 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

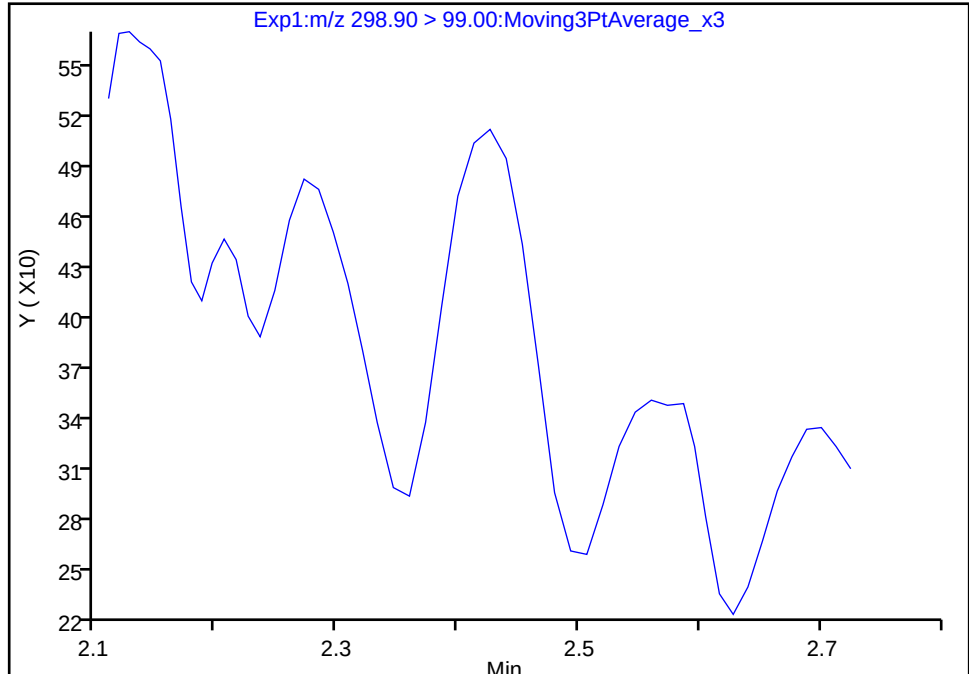
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

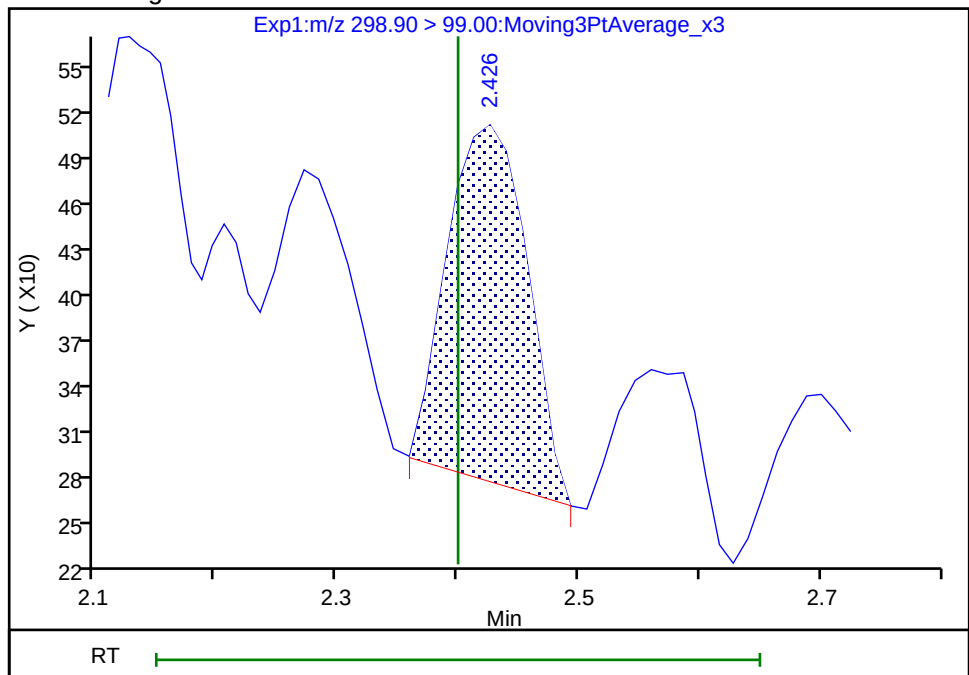
Signal: 2

Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 1053
Amount: 0.000999
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 13:39:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

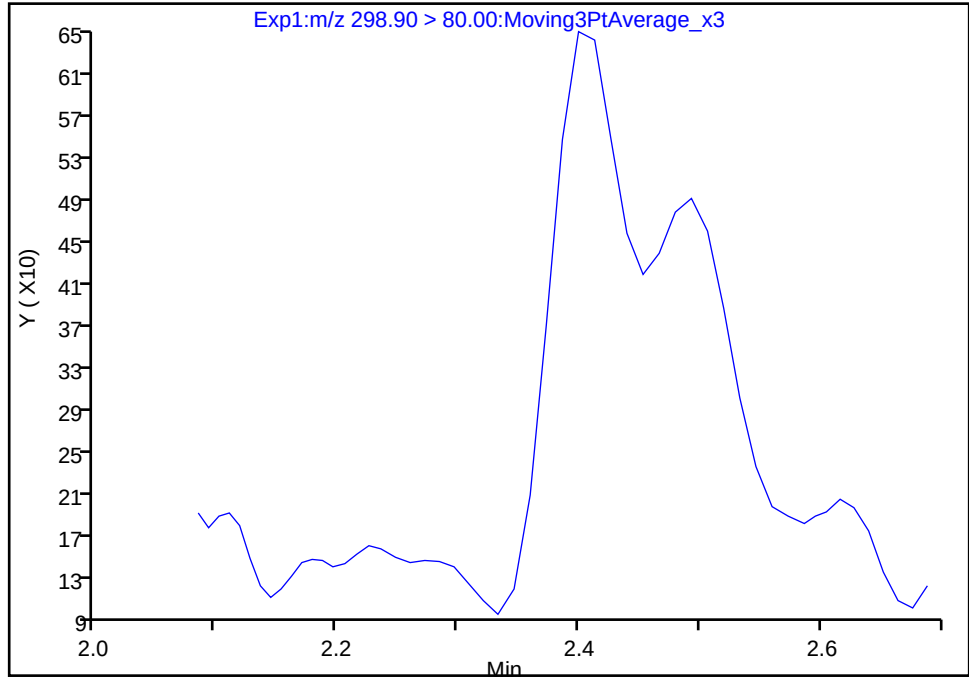
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

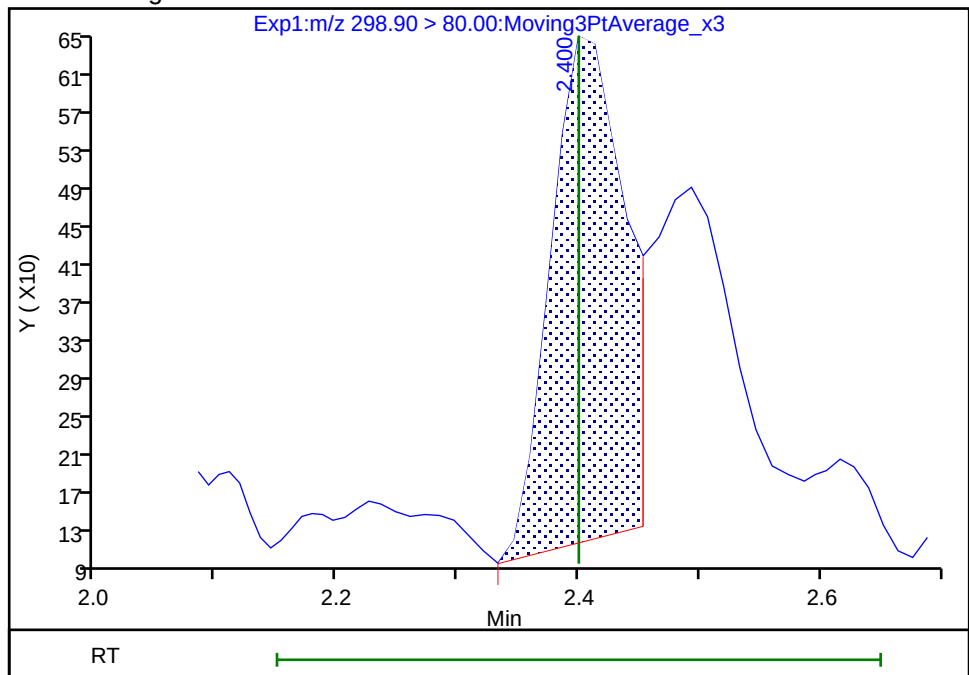
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 2207
Amount: 0.000999
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:39:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

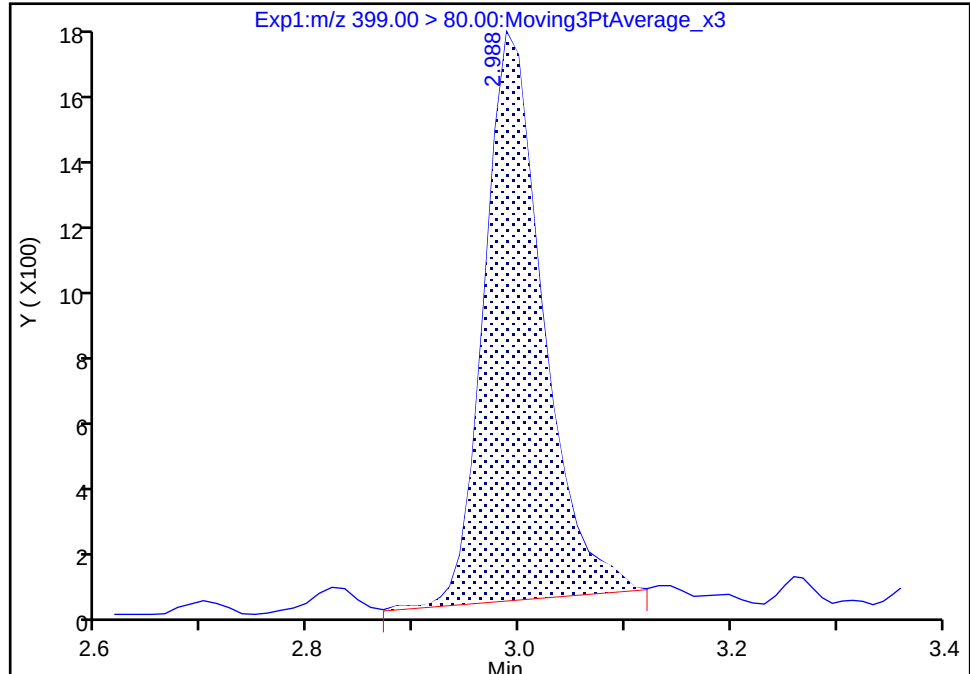
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

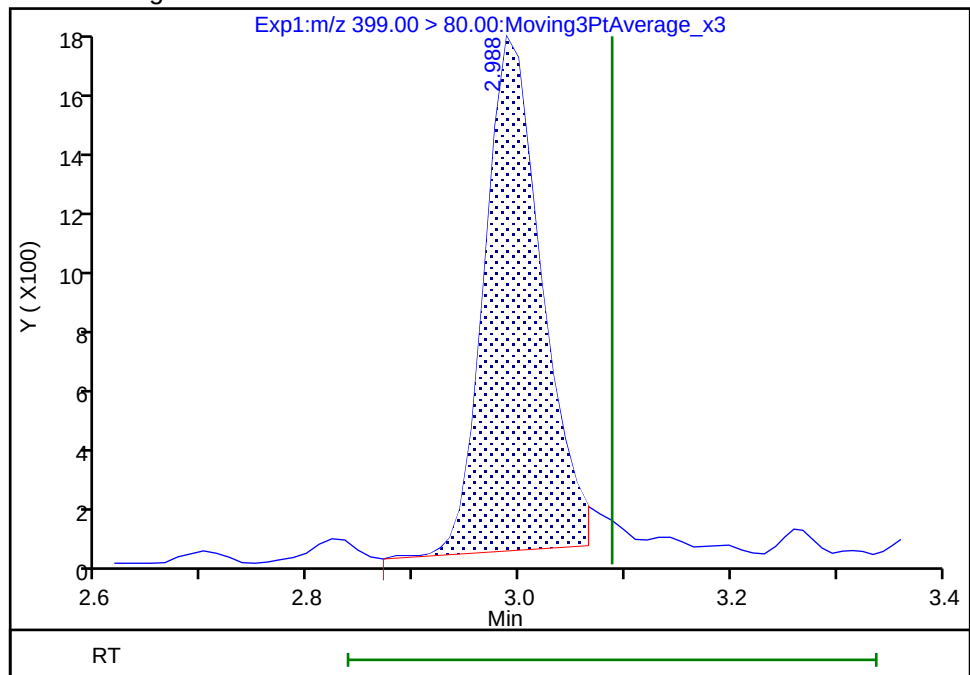
RT: 2.99
Area: 6555
Amount: 0.004193
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 6377
Amount: 0.004079
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:39:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

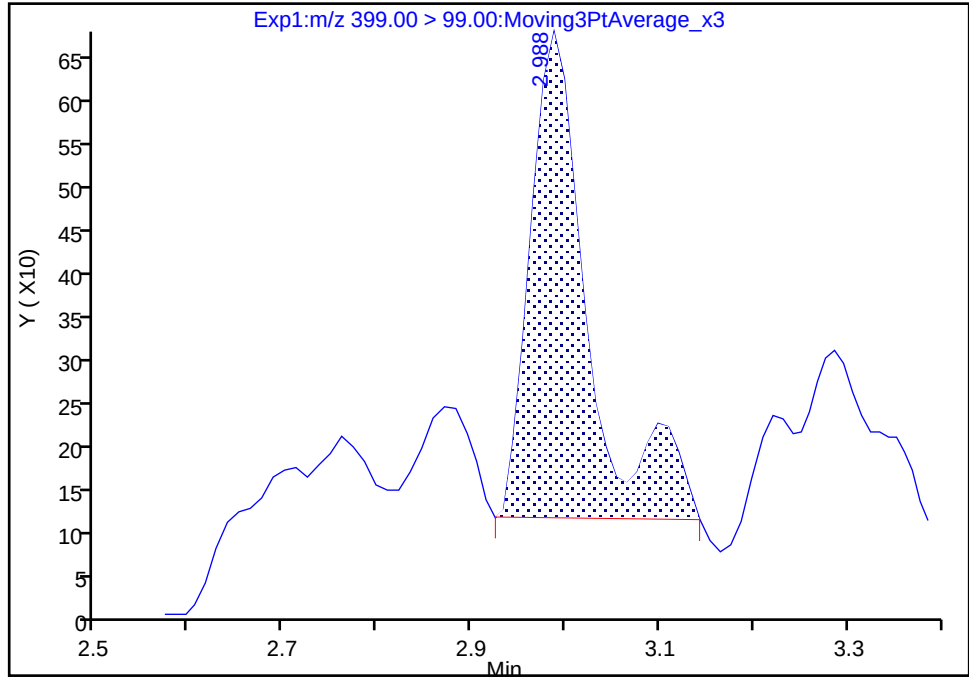
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

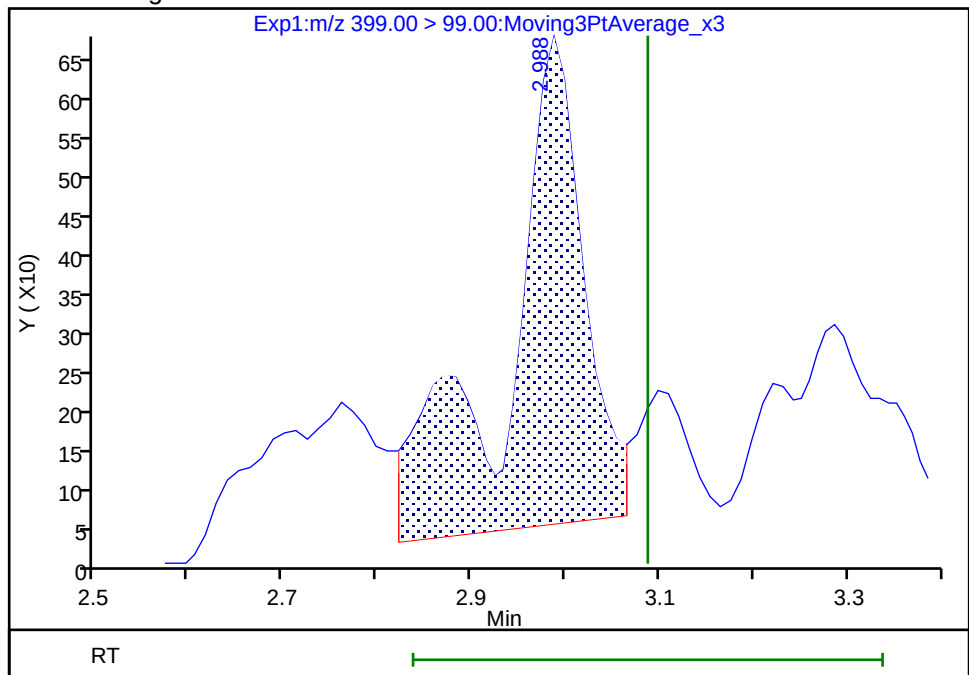
RT: 2.99
Area: 2402
Amount: 0.004193
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 3551
Amount: 0.004079
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:39:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 227 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

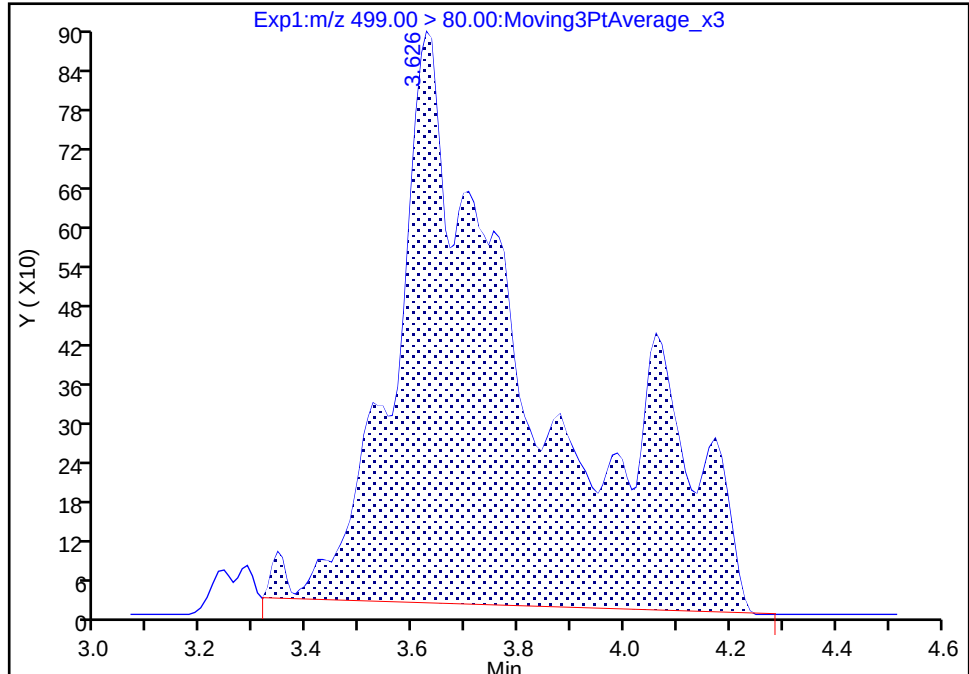
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

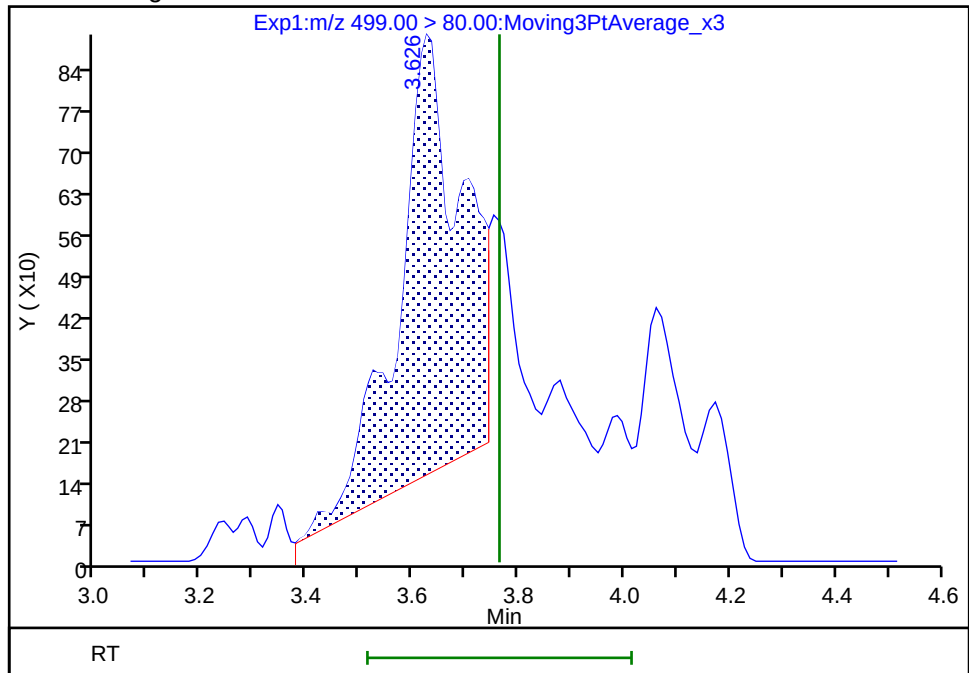
RT: 3.63
Area: 16443
Amount: 0.015335
Amount Units: ng/ml

Processing Integration Results



RT: 3.63
Area: 6230
Amount: 0.005810
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:40:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

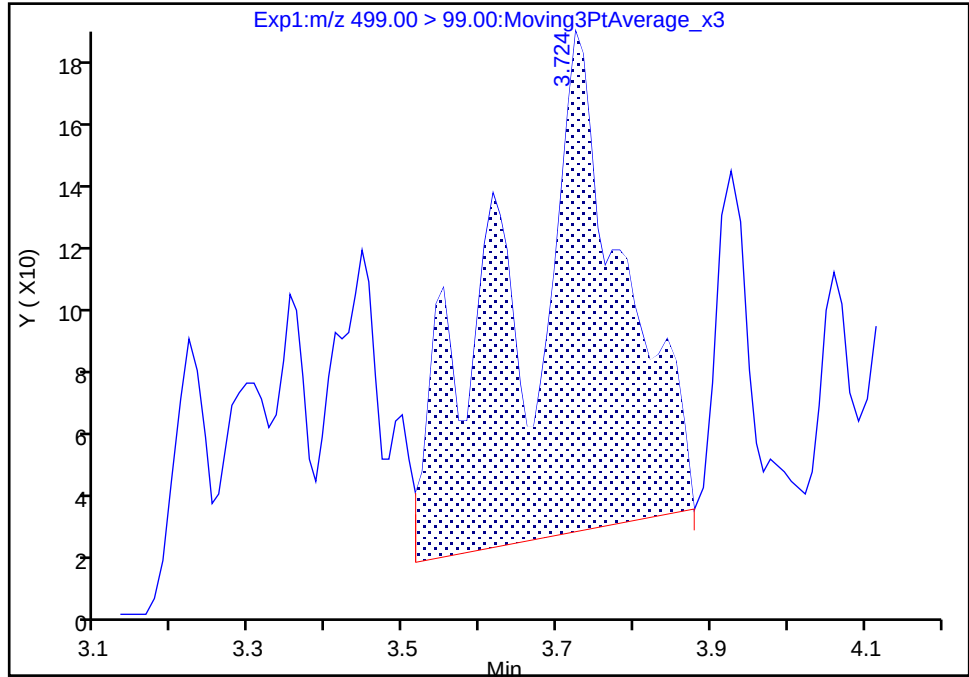
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

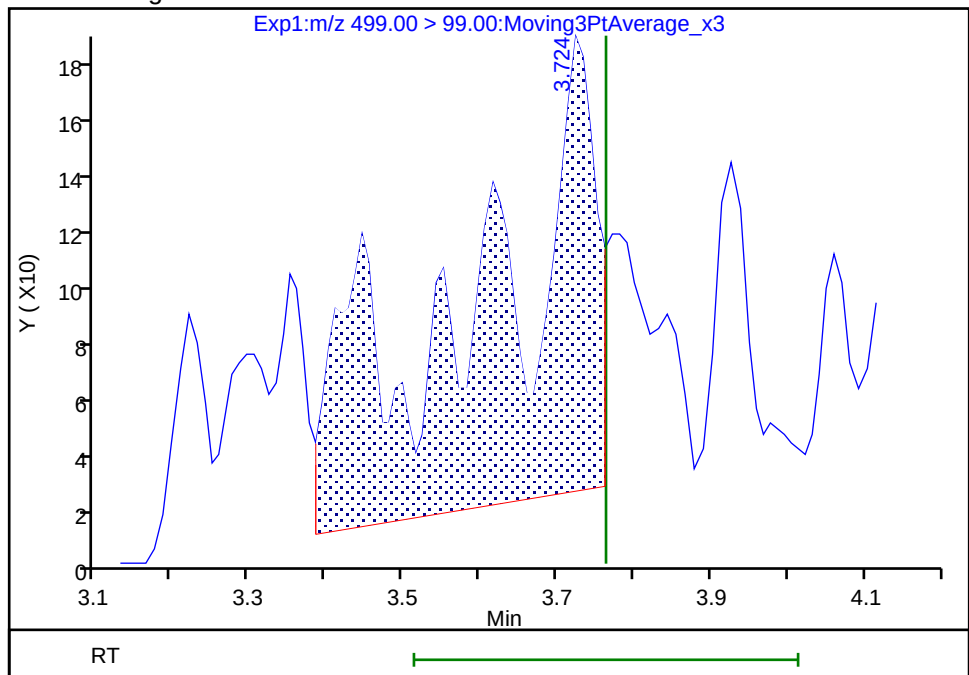
RT: 3.72
Area: 1598
Amount: 0.015335
Amount Units: ng/ml

Processing Integration Results



RT: 3.72
Area: 1672
Amount: 0.005810
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:40:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 229 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

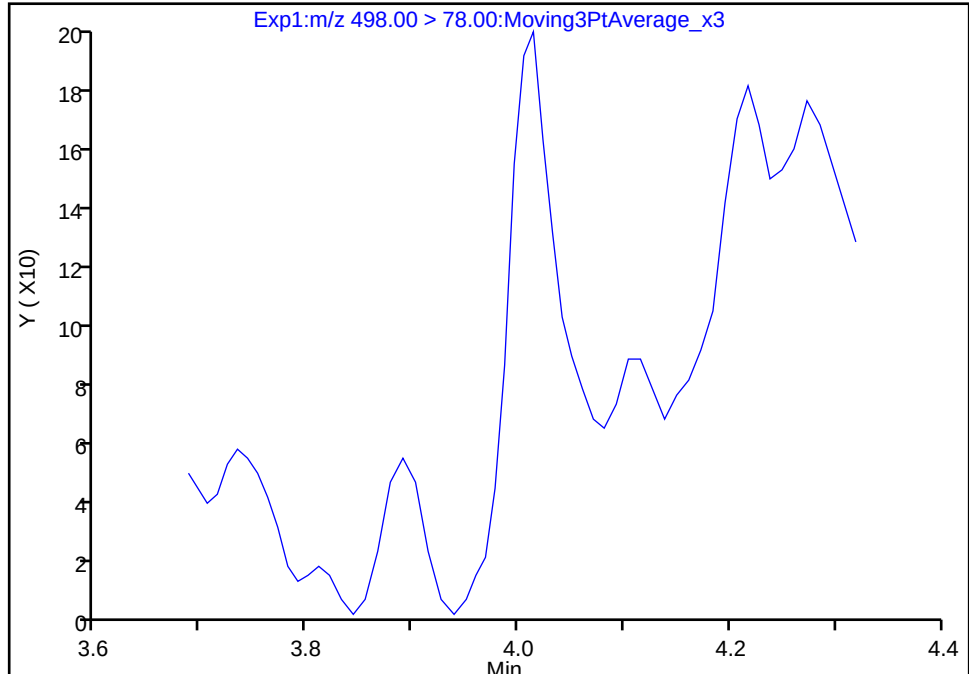
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

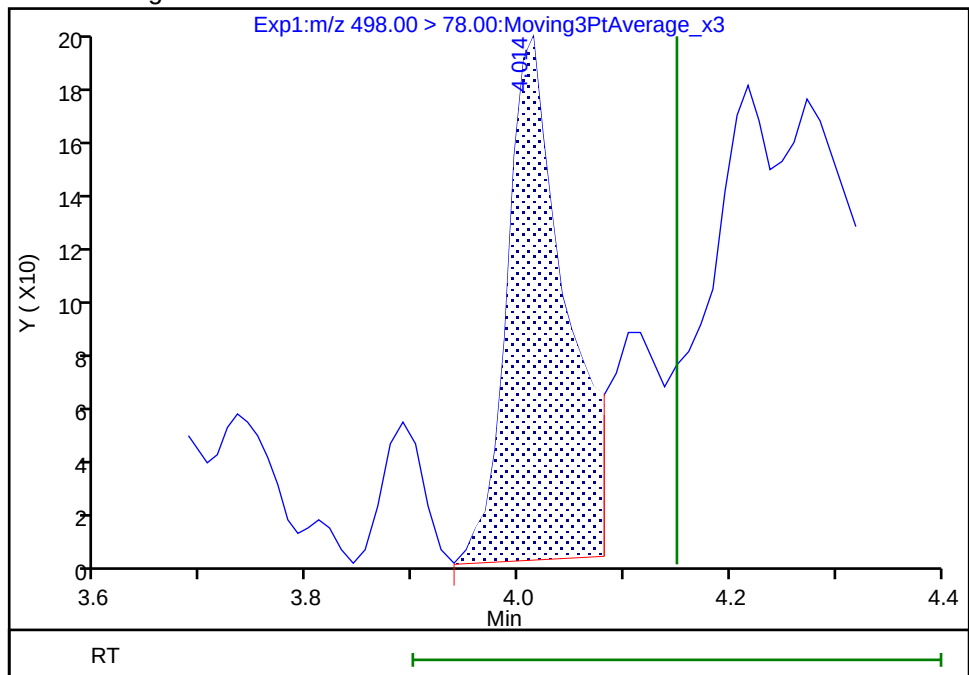
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.01
Area: 729
Amount: 0.000459
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 13:41:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

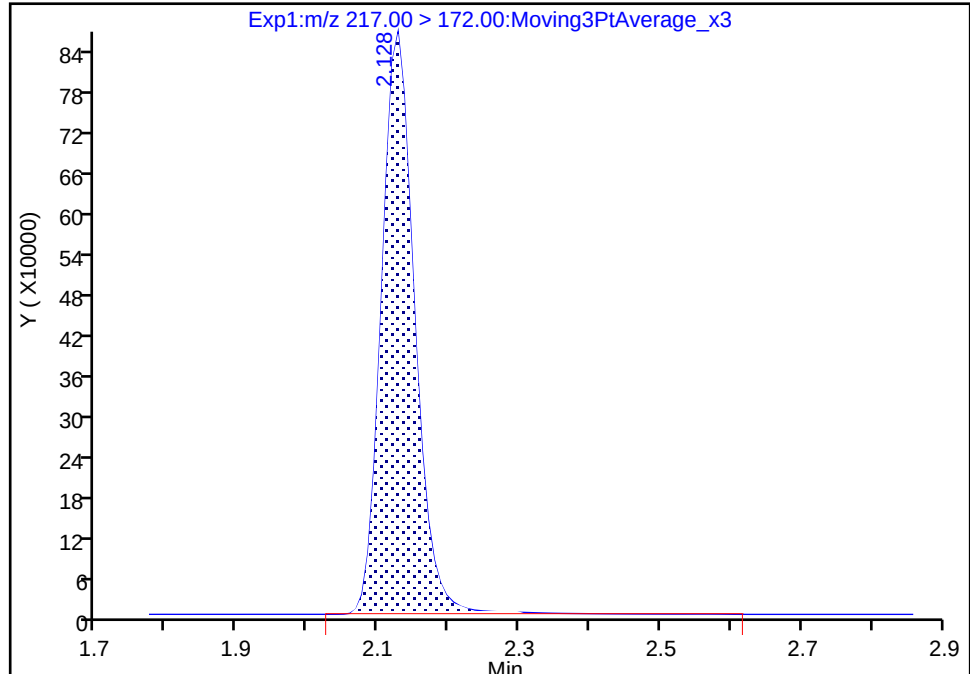
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

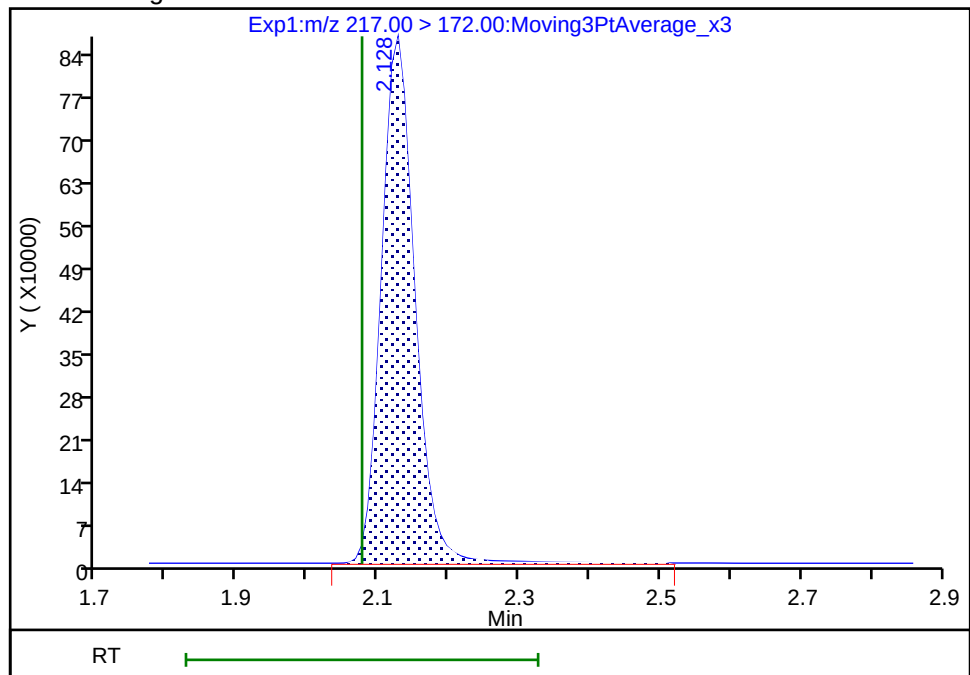
RT: 2.13
Area: 2856428
Amount: 1.075015
Amount Units: ng/ml

Processing Integration Results



RT: 2.13
Area: 2849324
Amount: 1.072341
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:38:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

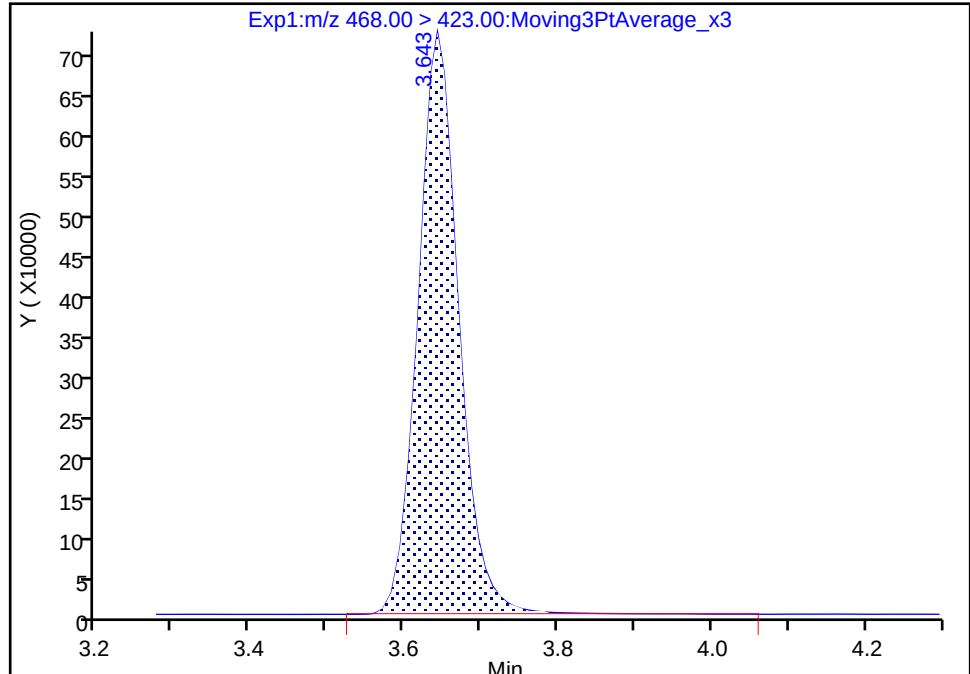
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

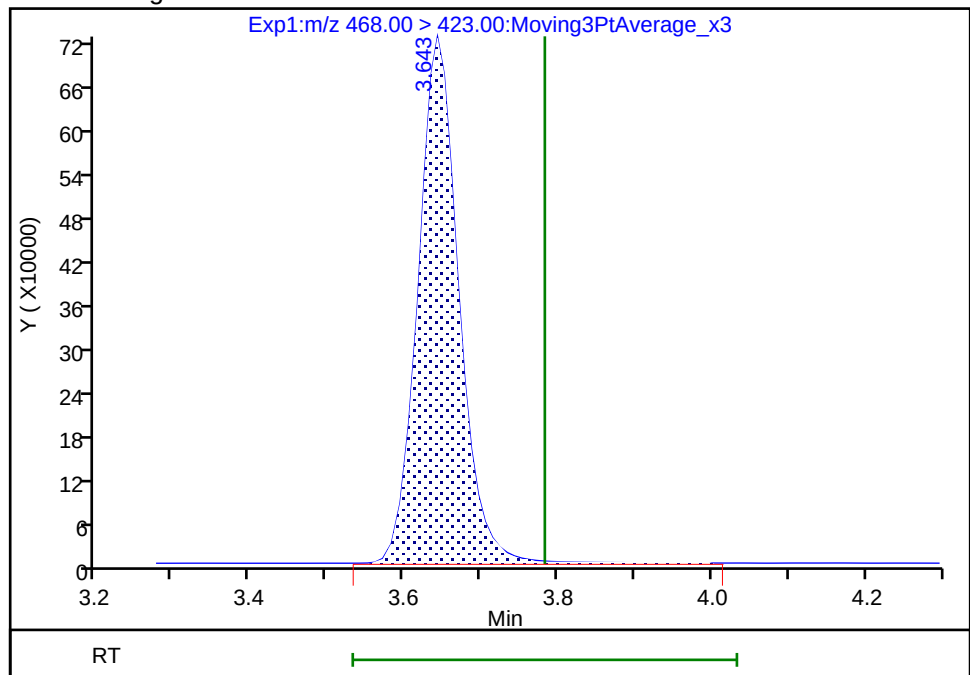
RT: 3.64
Area: 2674922
Amount: 1.122698
Amount Units: ng/ml

Processing Integration Results



RT: 3.64
Area: 2672103
Amount: 1.121514
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:38:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

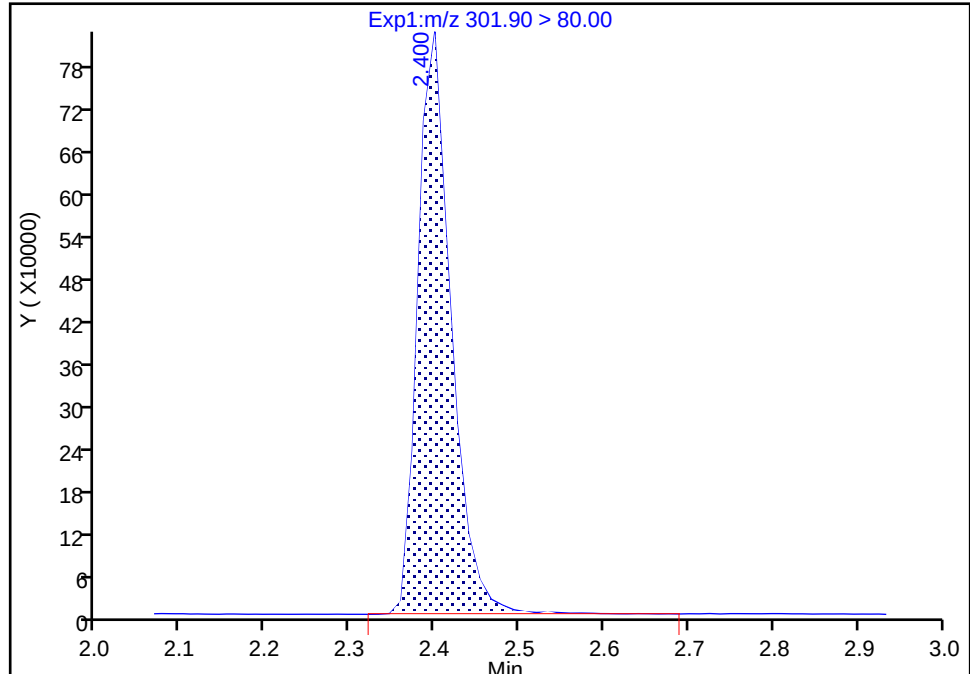
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

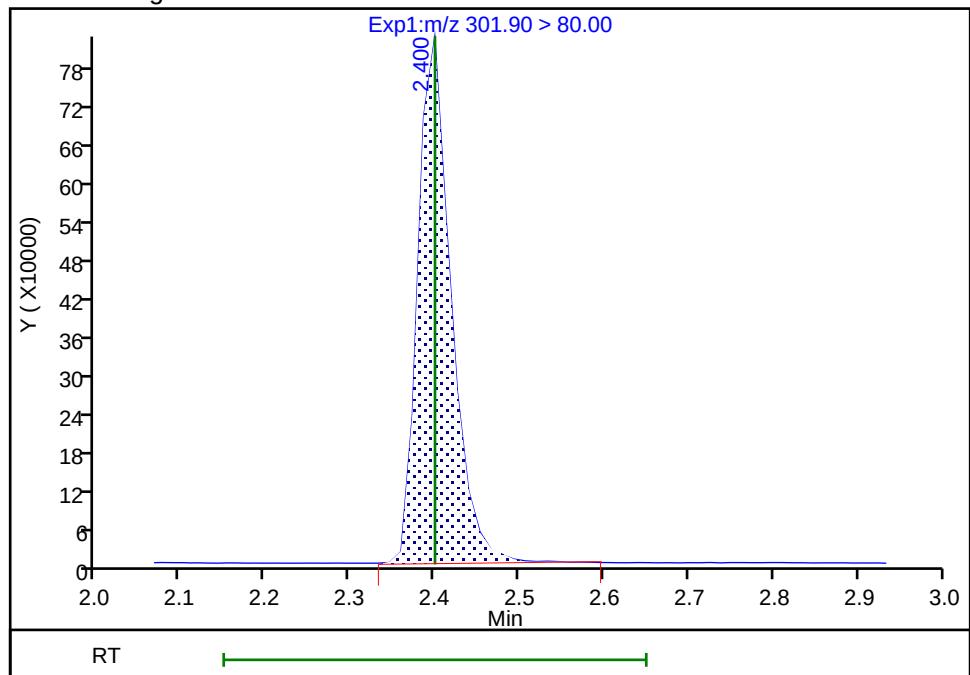
RT: 2.40
Area: 2254412
Amount: 1.025387
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2245853
Amount: 1.021494
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:38:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

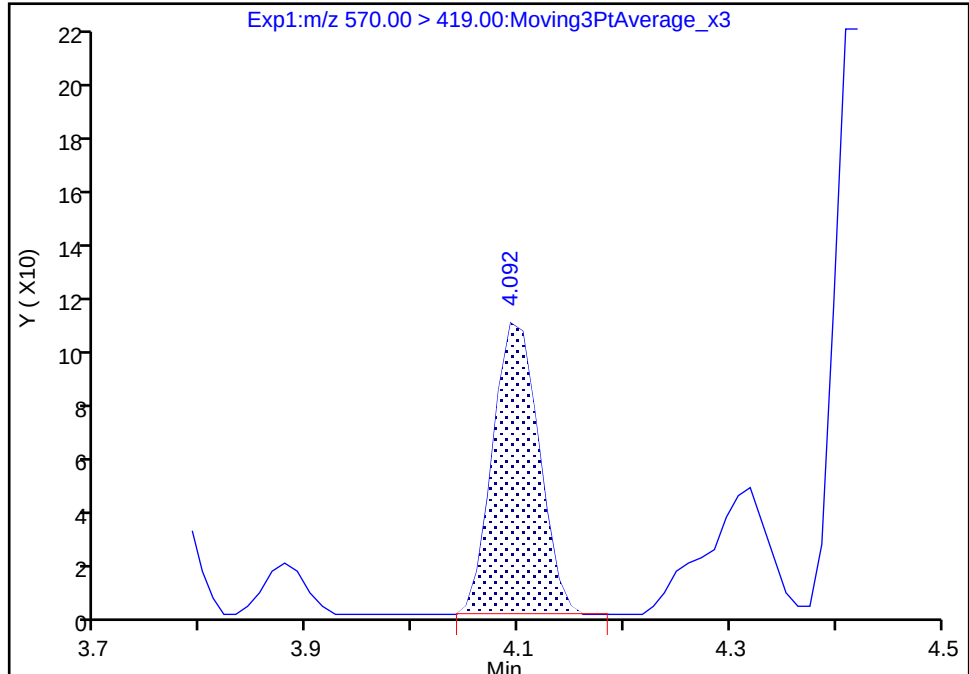
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	20

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

Signal: 1

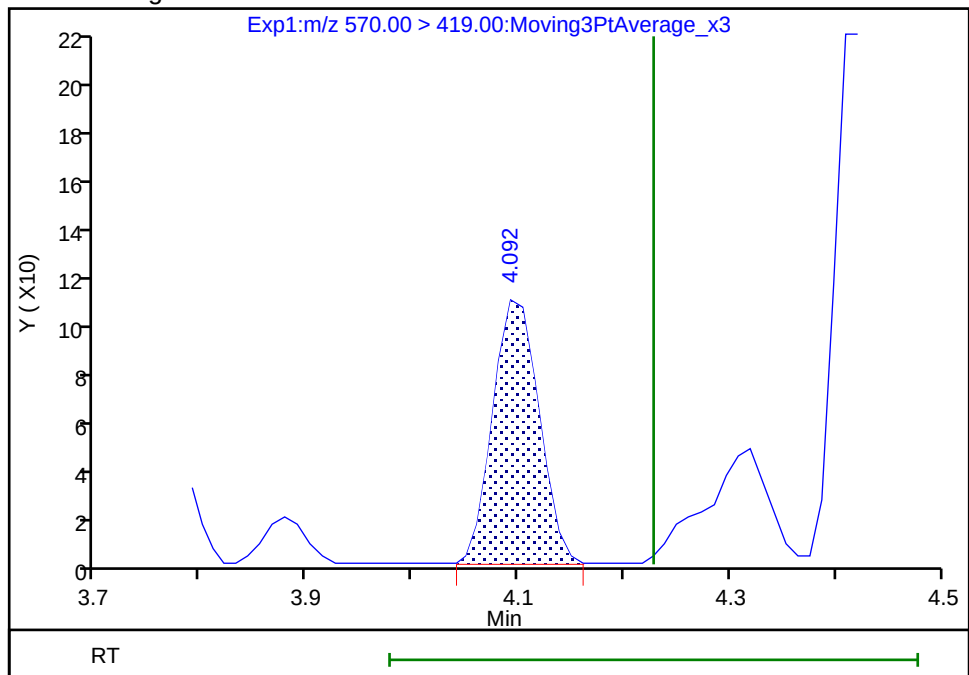
RT: 4.09
Area: 327
Amount: -0.010656
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 327
Amount: -0.010656
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:41:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d

Injection Date: 31-Dec-2022 01:01:02

Instrument ID: LC812

Lims ID: 460-271837-A-5-A

Lab Sample ID: 200-271837-5

Client ID: FB-21_122022P

Operator ID: lc812tech

ALS Bottle#: 20

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

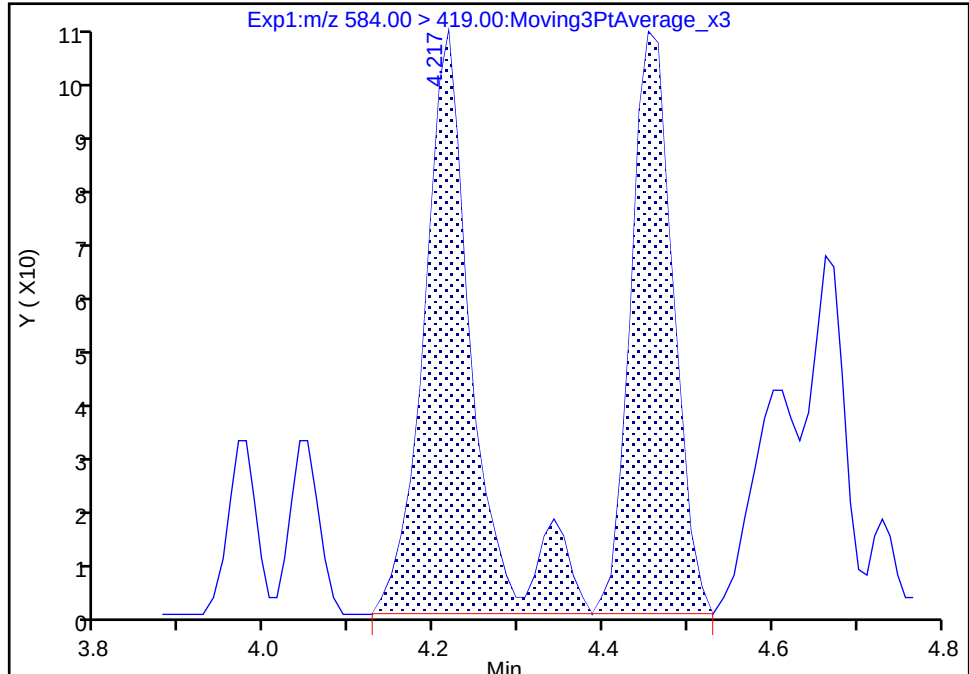
Detector: EXP1

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

Signal: 1

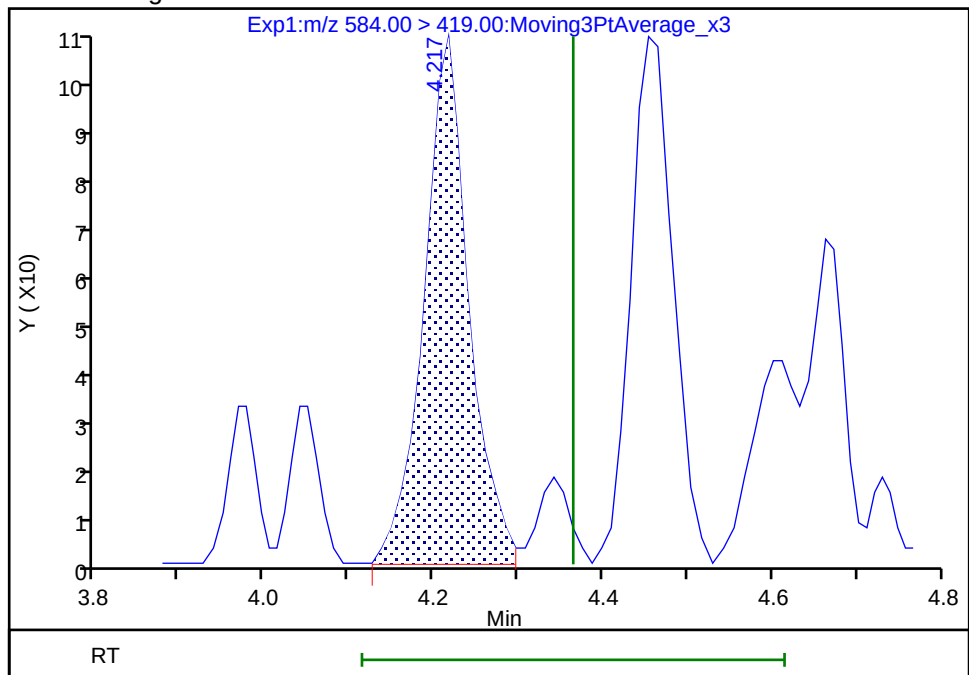
RT: 4.22
Area: 786
Amount: 0.002071
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 380
Amount: 0.001001
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:42:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

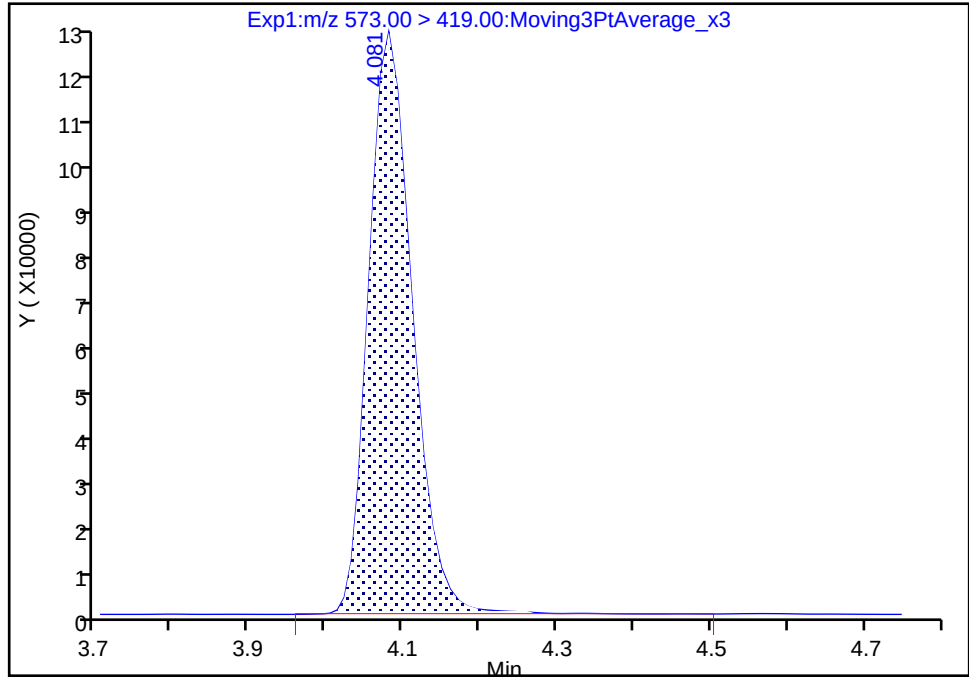
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d		
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5
Client ID:	FB-21_122022P		
Operator ID:	lc812tech	ALS Bottle#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	20

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

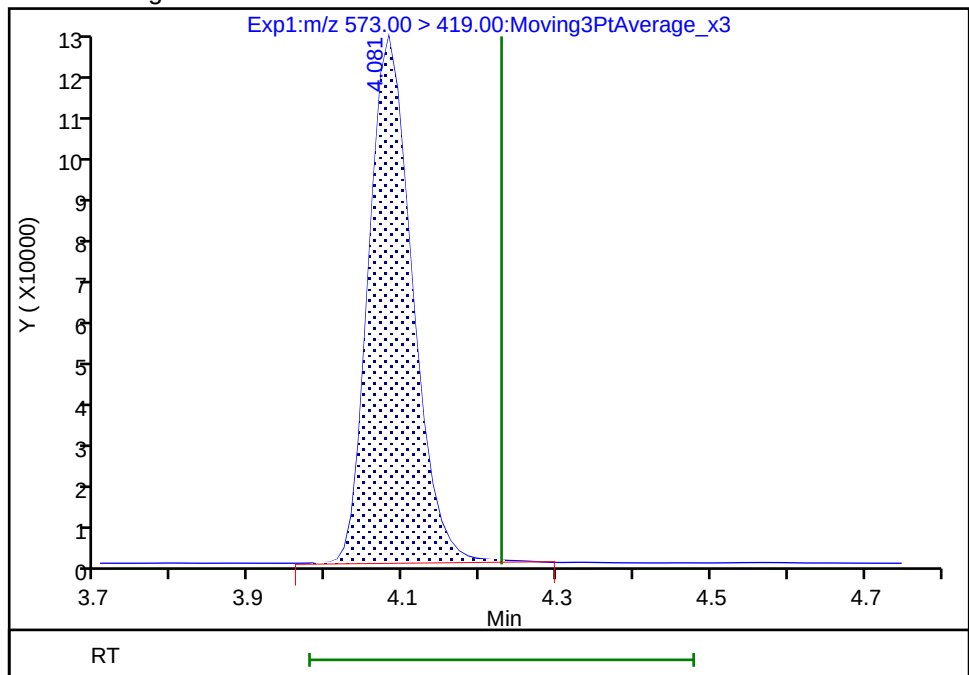
RT: 4.08
Area: 491845
Amount: 0.994939
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 489577
Amount: 0.990351
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:38:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

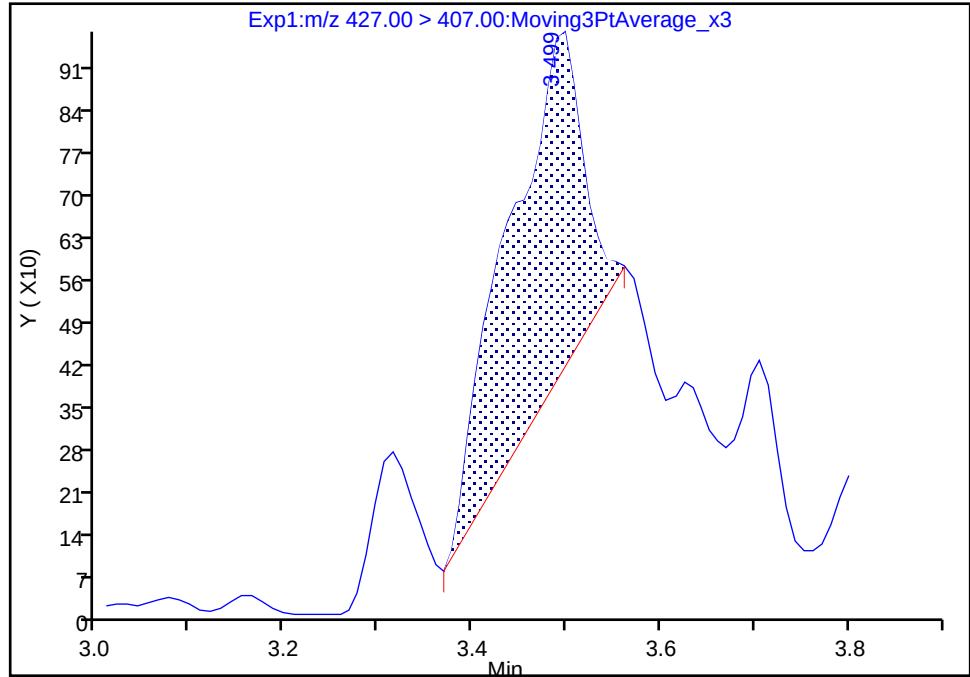
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d
Injection Date: 31-Dec-2022 01:01:02 Instrument ID: LC812
Lims ID: 460-271837-A-5-A Lab Sample ID: 200-271837-5
Client ID: FB-21_122022P
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

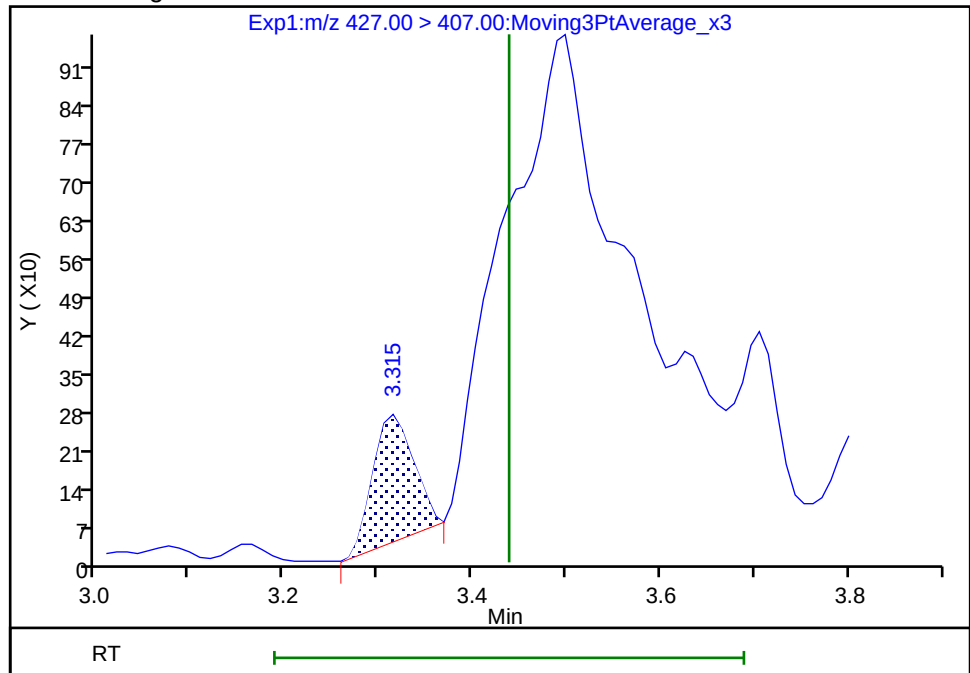
RT: 3.50
Area: 3285
Amount: -0.006325
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 699
Amount: -0.010692
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:40:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

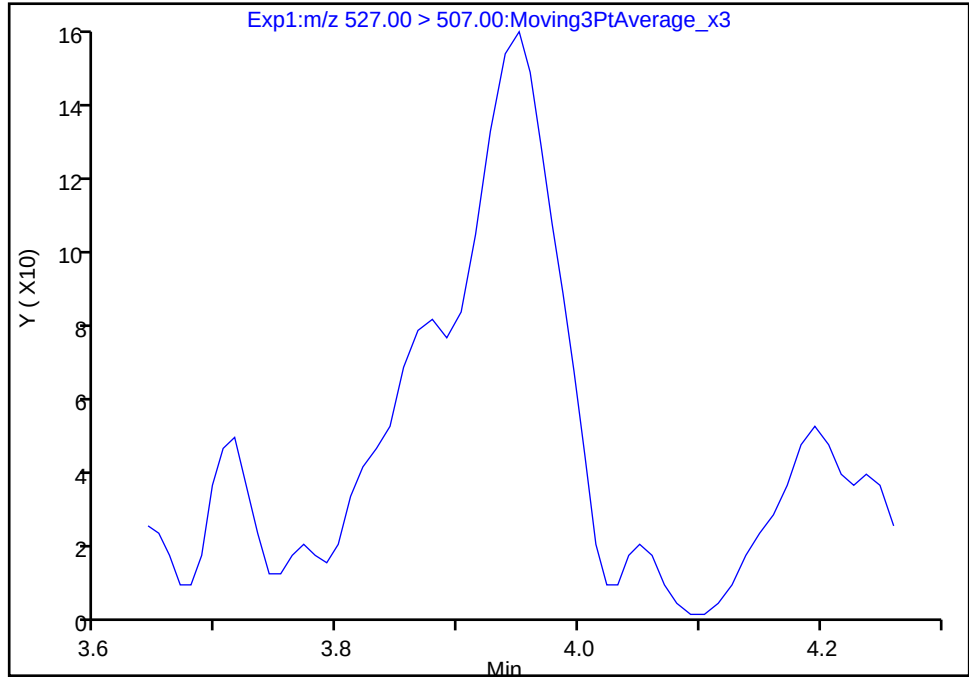
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C20.d				
Injection Date:	31-Dec-2022 01:01:02	Instrument ID:	LC812		
Lims ID:	460-271837-A-5-A	Lab Sample ID:	200-271837-5		
Client ID:	FB-21_122022P				
Operator ID:	lc812tech	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

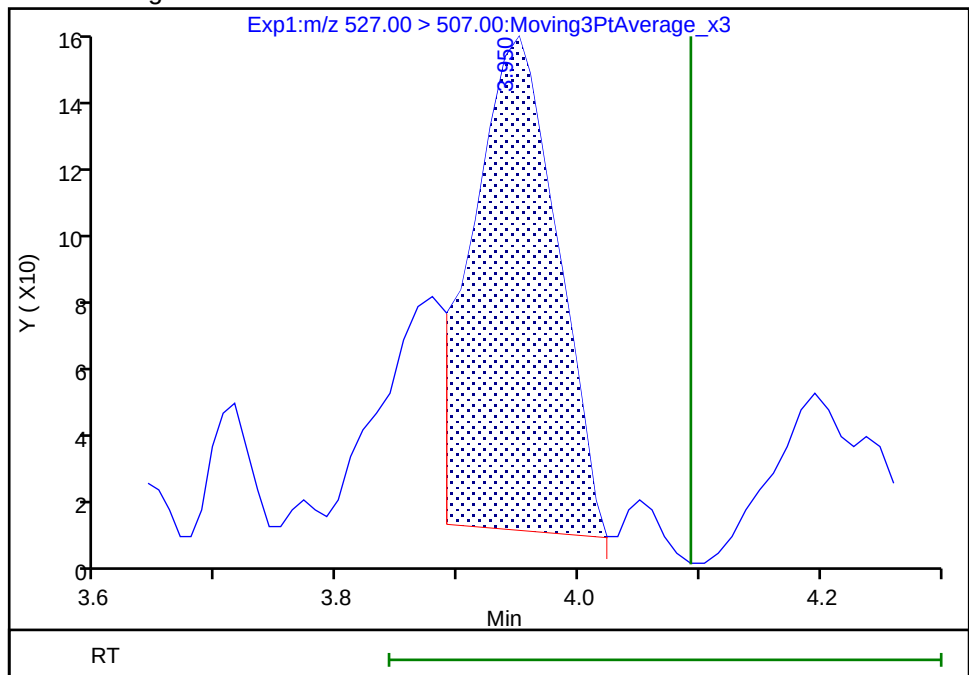
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 3.95
Area: 710
Amount: 0.001500
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 13:41:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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)	1.1445 0.9264	1.1425	1.0785	0.9425	0.9528	AveI D		1.031 2				9.9		20.0			
Perfluoropentanoic acid (PFPeA)	1.1767 0.9853	1.2150	1.1316	1.0126	1.0178	AveI D		1.089 8				8.9		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.2615 1.0797	1.2216	1.1599	1.0279	1.1141	AveI D		1.144 1				7.7		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	3.3006 2.8195	3.2444	3.2078	2.8919	3.0206	AveI D		3.080 8				6.5		20.0			
Perfluorohexanoic acid (PFHxA)	1.1712 0.9795	1.1611	1.1391	1.0360	1.0508	AveI D		1.089 6				7.2		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.4060 1.2589	1.3701	1.4318	1.2217	1.3242	AveI D		1.335 4				6.2		20.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.0956 0.9993	1.1493	1.1537	0.9619	0.9757	AveI D		1.055 9				8.3		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2166 1.0489	1.1225	1.1993	1.0590	1.1257	AveI D		1.128 7				6.1		20.0			
Perfluoroheptanoic acid (PFHpA)	1.1962 0.9763	1.1664	1.1666	1.0118	1.0154	AveI D		1.088 8				9.0		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.8732 4.4581	6.0703	5.9049	5.5037	5.2323	AveI D		5.507 1				10.9		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.4534 1.2848	1.5083	1.4953	1.3259	1.3126	AveI D		1.396 7				7.2		20.0			
6:2 FTS	2.6430 2.1137	2.2601	2.3824	2.0273	2.1346	L1ID	0.025 1	2.112 5							0.9990		0.9900
Perfluorooctanoic acid (PFOA)	1.1586 0.9630	1.0893	1.1217	1.0385	1.0432	AveI D		1.069 0				6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958
SDG No.: _____
Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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)	1.3844 1.1060	1.3450	1.1741	1.1401	1.1472	AveI n		1.216 1				9.7		20.0			
Perfluorononanoic acid (PFNA)	1.0746 0.9714	1.0661	1.1036	0.9819	1.0265	AveI n		1.037 4				5.1		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	2.9573 2.5142	2.9305	2.9507	2.7009	2.6934	AveI n		2.791 2				6.5		20.0			
Perfluorononanesulfonic acid (PFNS)	0.9829 0.8558	0.9757	0.9391	0.8663	0.8876	AveI n		0.917 9				6.1		20.0			
Perfluorodecanoic acid (PFDA)	1.1661 0.9356	1.1171	1.2688	1.0261	0.9931	AveI n		1.084 5				11.3		20.0			
8:2 FTS	1.6292 1.5472	1.6701	1.7320	1.5441	1.5795	AveI n		1.617 0				4.6		20.0			
Perfluorooctanesulfonamide (FOSA)	1.0869 0.9680	1.1382	1.0618	0.9865	1.0270	AveI n		1.044 7				6.1		20.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.0455 0.8611	0.8925	0.9842	0.8638	0.8494	LIID	0.010 0	0.860 2							0.9990		0.9900
Perfluorodecanesulfonic acid (PFDS)	0.7474 0.6922	0.7456	0.7794	0.6770	0.7070	AveI n		0.724 8				5.4		20.0			
Perfluoroundecanoic acid (PFUnA)	1.0465 0.9002	1.0407	1.1264	0.9789	0.9541	AveI n		1.007 8				7.9		20.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.9658 0.8407	0.9508	0.9147	0.8447	0.8547	AveI n		0.895 3				6.2		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	4.6158 3.6495	4.6481	4.4955	4.2280	4.1787	AveI n		4.302 6				8.7		20.0			
Perfluorododecanoic acid (PFDoA)	1.1560 0.9277	1.1325	1.1436	1.0327	0.9642	AveI n		1.059 5				9.3		20.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	1.0867 0.9589	0.9706	0.9716	0.9361	0.9064	AveI n		0.971 7				6.3		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3227 0.2805	0.3244	0.3236	0.2924	0.2963	AveI n		0.306 7				6.3		20.0			
Perfluorotridecanoic acid (PFTriA)	1.0848 0.8766	1.0990	1.0994	0.9438	0.9757	AveI n		1.013 2				9.3		20.0			
Perfluorotetradecanoic acid (PFTeA)	0.1527 0.1272	0.1391	0.1459	0.1277	0.1289	AveI n		0.136 9				7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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)	1.1897 0.9218	1.0727	1.0421	0.8953	0.9216	L1ID	0.015 7	0.919 5							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.8440 0.7765	0.8293	0.9071	0.8076	0.7770	AveI n		0.823 6				6.0	20.0				
13C4 PFBA	1.1404 1.1799	1.0866	1.1024	1.0894	1.1315	Ave		1.121 7				3.2	50.0				
13C5 PFPeA	0.8620 0.8893	0.8105	0.8579	0.8500	0.8561	Ave		0.854 3				3.0	50.0				
13C3 PFBS	0.9374 0.9873	0.8930	0.9171	0.9137	0.9204	Ave		0.928 1				3.5	50.0				
M2-4:2 FTS	0.0877 0.0861	0.0797	0.0800	0.0778	0.0808	Ave		0.082 0				4.8	50.0				
13C2 PFHxA	0.8868 0.9110	0.8654	0.9101	0.8833	0.9139	Ave		0.895 1				2.2	50.0				
13C3 HFPO-DA	0.1502 0.1669	0.1484	0.1584	0.1602	0.1638	Ave		0.158 0				4.7	50.0				
18O2 PFHxS	0.6970 0.7163	0.6705	0.6515	0.6583	0.6633	Ave		0.676 1				3.7	50.0				
13C4 PFHpA	0.9332 0.9419	0.8781	0.8987	0.9124	0.9591	Ave		0.920 6				3.2	50.0				
M2-6:2 FTS	0.1194 0.1117	0.1128	0.1090	0.1129	0.1146	Ave		0.113 4				3.1	50.0				
13C4 PFOA	1.0534 1.0538	0.9967	1.0342	1.0066	1.0654	Ave		1.035 0				2.7	50.0				
13C4 PFOS	0.4599 0.4970	0.4445	0.4526	0.4349	0.4638	Ave		0.458 8				4.7	50.0				
13C5 PFNA	1.0139 1.0056	0.9936	0.9947	1.0127	1.0144	Ave		1.005 8				1.0	50.0				
13C2 PFDA	1.0047 1.0662	1.0261	0.9756	1.0248	1.0523	Ave		1.024 9				3.2	50.0				
M2-8:2 FTS	0.1424 0.1384	0.1349	0.1401	0.1347	0.1416	Ave		0.138 7				2.4	50.0				
13C8 FOSA	0.8552 0.9157	0.7991	0.8222	0.8078	0.8419	Ave		0.840 3				5.0	50.0				
d3-NMeFOSAA	0.2080 0.2288	0.2012	0.1948	0.2020	0.2172	Ave		0.208 7				6.0	50.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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	0.9739 0.9407	0.8915	0.9322	0.9386	0.9543	Ave		0.938 5				2.9		50.0			
d5-NETfOSAA	0.2016 0.2128	0.2027	0.2082	0.1978	0.2098	Ave		0.205 5				2.8		50.0			
13C2 PFDoA	0.9692 1.0059	0.9046	0.9388	0.9287	0.9901	Ave		0.956 2				4.1		50.0			
13C2 PFTeDA	0.8372 0.8524	0.8152	0.8139	0.7926	0.8509	Ave		0.827 0				2.9		50.0			
13C2 PFHxDA	1.0582 1.0482	1.0104	0.9816	0.9803	1.0561	Ave		1.022 5				3.6		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-185958/5	PA221118ICAL05.d
Level 2	IC 200-185958/6	PA221118ICAL06.d
Level 3	IC 200-185958/7	PA221118ICAL07.d
Level 4	ICISAV 200-185958/8	PA221118ICAL08.d
Level 5	IC 200-185958/9	PA221118ICAL09.d
Level 6	IC 200-185958/10	PA221118ICAL10.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	117447 18287579	236091	1137760	1911392	5105461	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveI D	91274 14659532	187282	929016	1602160	4126130	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveI D	94070 15764131	183390	899900	1545417	4292437	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveI D	24335 3793564	45908	229433	391113	1079231	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveI D	93459 14928997	191103	992048	1703495	4547952	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveI D	82717 14151584	163879	837304	1404230	3901605	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveI D	14811 2790710	32429	174879	286947	756781	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveI D	69439 11438488	130263	680406	1180858	3217665	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveI D	100453 15384783	194803	1003322	1718424	4611900	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	228953 34921387	483450	2408962	4197219	10824421	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	57260 10171074	121399	616490	1021904	2744265	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		L1ID	26914 3743844	45963	235479	404018	1097897	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	109826 16977289	206480	1110144	1946044	5263268	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	53166 8534676	105528	471879	856526	2338057	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	98046 16342622	201460	1050495	1851038	4930997	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanona ne-1-sulfonic acid (9Cl-PF3O		AveI D	114059 19485090	230911	1190983	2037918	5512960	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	39049 6831873	79193	390435	673297	1871298	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	105421 16688874	217999	1184639	1957474	4948756	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	20003 3431863	41049	222425	370895	1014644	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	83641 14828965	172977	835408	1483356	4094524	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonami doacetic acid (NMeFOSAA)		L1ID	19570 3297027	34156	183478	324897	873622	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	29817 5548668	60768	325384	528363	1496790	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveI D	91713 14168517	176444	1004863	1710346	4311823	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamid oacetic acid (NEtFOSAA)		AveI D	17526 2992748	36650	182262	311108	848987	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafuoro-3-oxaundec ane-1-sulfonic acid (11Cl-PF		AveI D	179935 28587798	370183	1834007	3224328	8644779	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveI D	100823 15612916	194829	1027352	1785384	4520955	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	13425 2140218	24005	125547	226266	585886	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveI D	12927 2258006	26552	135657	229113	629893	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveI D	94610 14753486	189059	987678	1631703	4574880	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveI D	11500 1813608	21567	113607	188468	519386	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	113285 16164958	206119	978907	1633724	4609177	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	80369 13617092	159361	852104	1473641	3885994	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PF OA	Ave	2565506 2467565	2583086	2637410	2534911	2679202	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	1939262 1859782	1926794	2052396	1977830	2026955	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1961265 1920108	1974243	2040575	1977208	2026741	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	184320 168186	176875	178810	169056	178646	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1995025 1905245	2057289	2177304	2055340	2164012	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	337960 349067	352715	378942	372889	387831	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1483321 1417084	1507942	1474490	1449028	1485775	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	2099356 1969787	2087570	2150118	2123066	2271049	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	255115 221871	254748	247623	249636	257709	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	2369880 2203793	2369406	2474245	2342274	2522753	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	989045 993714	1010315	1035061	967441	1049764	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	2280957 2102974	2362013	2379680	2356501	2401890	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	2260154 2229691	2439344	2334094	2384612	2491665	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-271837-1 Analy Batch No.: 185958

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2022 14:29 Calibration End Date: 11/18/2022 15:10 Calibration ID: 49456

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	306939 277266	307241	321045	300249	321188	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1923900 1914897	1899612	1967036	1879604	1993351	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	467975 478582	478399	466044	470154	514239	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	2191050 1967361	2119319	2230172	2183949	2259671	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	453643 444955	481823	498173	460360	496655	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	2180352 2103698	2150435	2245926	2161023	2344331	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	1883348 1782548	1938056	1947280	1844360	2014799	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	2380608 2191999	2401907	2348434	2280992	2500657	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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Nov-2022 14:29:54 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:20 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:49:08

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 2.076 2.076 0.0 0.602 2565506 1.27 102 10150

2 Perfluorobutanoic acid

212.90 > 169.00 2.085 2.076 0.009 1.004 117447 0.0555 111 11.2 M

D 3 13C5 PFPeA

267.90 > 223.00 2.386 2.387 -0.001 0.692 1939262 1.26 101 4262

4 Perfluoropentanoic acid

262.90 > 219.00 2.386 2.387 -0.001 1.000 91274 0.0540 108 2.4 M

D 47 13C3 PFBS

301.90 > 80.00 2.400 2.400 0.0 0.696 1961265 1.17 101 318346

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.413 2.400 0.013 1.006 94070 0.0487 Target=2.14 110 139 M

298.90 > 99.00 2.400 2.400 0.0 1.000 40889 2.30(1.07-3.21) 110 29.8 M

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.701 2.689 0.012 1.005 24335 0.0500 107 375

D 60 M2-4:2 FTS

329.00 > 81.00 2.689 2.689 0.0 0.780 184320 1.25 107 185

D 7 13C2 PFHxA

315.00 > 270.00 2.725 2.725 0.0 0.790 1995025 1.24 99.1 4548

6 Perfluorohexanoic acid

313.00 > 269.00 2.737 2.725 0.012 1.004 93459 0.0537 Target=13.44 107 17.7 M

313.00 > 119.00 2.725 2.725 0.0 1.000 7632 12.25(6.72-20.15) 107 13.3 M

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.737 2.737 0.0 0.887 82717 0.0494 Target=2.98 105 219

349.00 > 99.00 2.737 2.737 0.0 0.887 28613 2.89(1.49-4.47) 105 68.8

D 64 13C3 HFPO-DA

287.00 > 169.00 2.835 2.835 0.0 0.822 337960 1.19 95.1 3479

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	14811	0.0519		104	87.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1483321	1.22		103	2964	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.004	69439	0.0490	Target=3.57	108	101	
399.00 > 99.00	3.088	3.088	0.0	1.000	19455		3.57(1.78-5.35)	108	25.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2099356	1.27		101	5220	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	100453	0.0549	Target=3.93	110	21.8	M
363.00 > 169.00	3.099	3.099	0.0	1.000	25626		3.92(1.96-5.89)	110	58.2	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	228953	0.0502	Target=3.08	107	363	
377.00 > 85.00	3.132	3.132	0.0	0.832	75160		3.05(1.54-4.62)	107	131	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	255115	1.25		105	800	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	26914	0.0474		100	78.5	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	57260	0.0495	Target=5.16	104	228	M
449.00 > 99.00	3.439	3.439	0.0	0.914	10494		5.46(2.58-7.74)	104	48.9	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2369880	1.27		102	7932	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2249687	1.25			7146	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	109826	0.0542	Target=2.82	108	8.5	
413.00 > 169.00	3.448	3.448	0.0	1.000	38701		2.84(1.41-4.23)	108	61.5	
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	989045	1.20		100	2554	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	53166	0.0528	Target=5.01	114	12.5	M
499.00 > 99.00	3.764	3.764	0.0	1.000	9421		5.64(2.50-7.51)	114	10.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2280957	1.26		101	2314	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	98046	0.0518	Target=8.49	104	21.5	M
463.00 > 169.00	3.783	3.783	0.0	1.000	12273		7.99(4.25-12.74)	104	132	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	114059	0.0494		106	734	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	39049	0.0514	Target=2.60	107	385	
549.00 > 99.00	4.061	4.050	0.011	1.079	14345		2.72(1.30-3.90)	107	108	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2260154	1.23		98.0	9579	

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	4.081	4.081	0.0	1.000	105421	0.0538	Target=10.03	108	53.0	M
513.00 > 169.00	4.081	4.081	0.0	1.000	10453		10.09(5.02-15.05)	108	18.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	306939	1.23		103	1357	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	20003	0.0483		101	186	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	83641	0.0520		104	226	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1923900	1.27		102	2597	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	467975	1.25		99.7	1170	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	19570	0.0491		98.3	48.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	29817	0.0497	Target=2.58	103	240	M
599.00 > 99.00	4.331	4.331	0.0	1.151	11494		2.59(1.29-3.86)	103	114	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	91713	0.0519	Target=10.10	104	46.8	
563.00 > 169.00	4.365	4.353	0.012	1.003	8638		10.62(5.05-15.15)	104	80.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2191050	1.30		104	5521	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	17526	0.0539		108	235	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	453643	1.23		98.1	938	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	179935	0.0505		107	957	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	100823	0.0546	Target=7.41	109	7.8	
613.00 > 169.00	4.591	4.591	0.0	1.000	13273		7.60(3.70-11.11)	109	184	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2180352	1.27		101	3632	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	13425	0.0539		112	191	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	12927	0.0509	Target=0.51	105	191	
699.00 > 99.00	4.776	4.776	0.0	1.269	25803		0.50(0.25-0.76)	105	442	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	94610	0.0535	Target=5.40	107	8.2	M
663.00 > 169.00	4.813	4.804	0.009	1.048	16297		5.81(2.70-8.10)	107	99.4	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	11500	0.0558	Target=0.90	112	101	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	12127		0.95(0.45-1.35)	112	152	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	1883348	1.27		101	2254	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	5.367	5.367	0.0	1.557	2380608	1.29		103	5199	

45 Perfluorohexadecanoic acid

813.00 > 769.00	5.378	5.367	0.011	1.002	113285	0.0476	Target=5.85	95.2	11.0	

813.00 > 169.00	5.367	5.367	0.0	1.000	19229		5.89(2.93-8.78)	95.2	167	

46 Perfluorooctadecanoic acid

913.00 > 869.00	5.722	5.722	0.0	1.066	80369	0.0512	Target=6.30	102	9.4	

913.00 > 169.00	5.722	5.722	0.0	1.066	12582		6.39(3.15-9.46)	102	148	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00014

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d

Injection Date: 18-Nov-2022 14:29:54

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

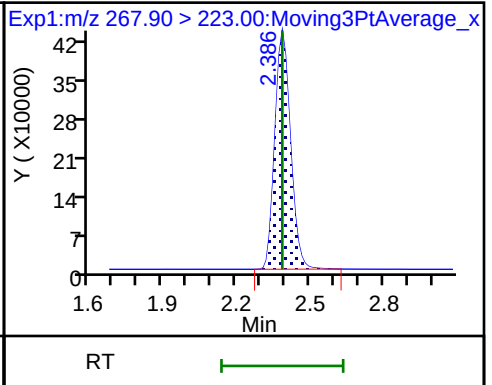
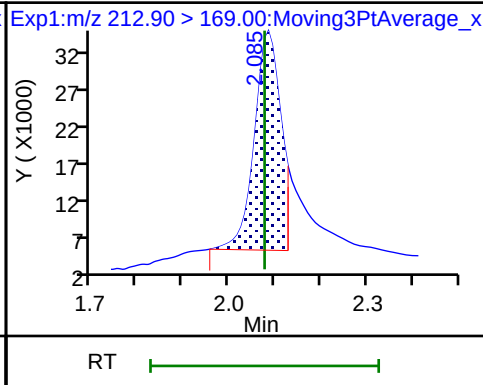
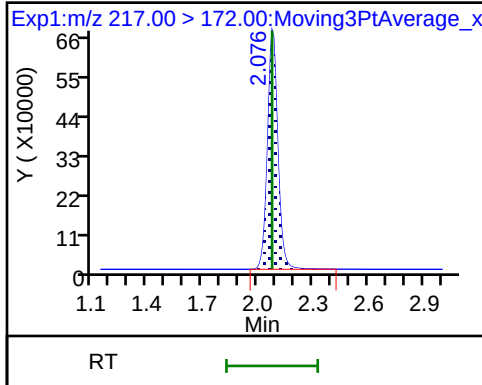
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

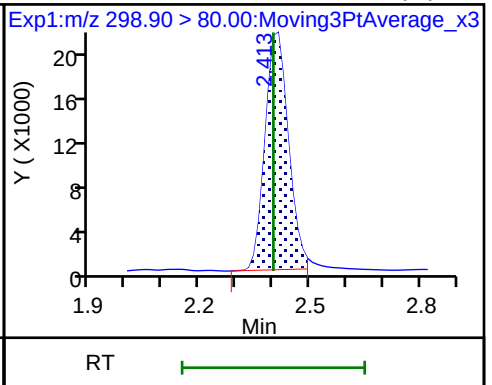
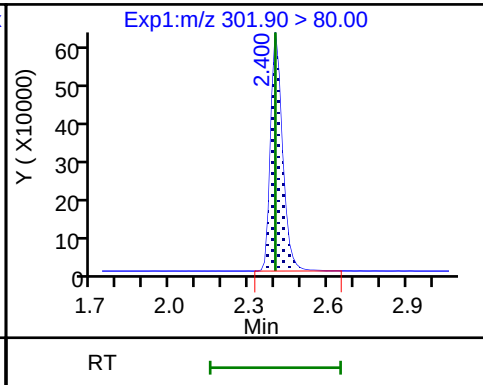
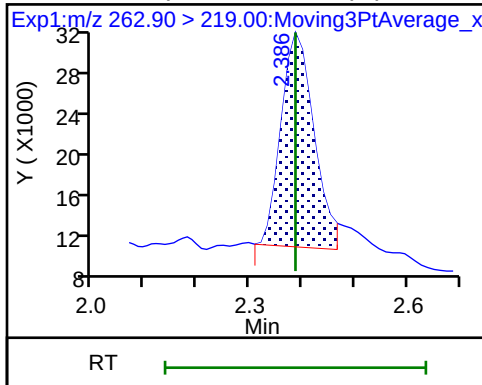
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

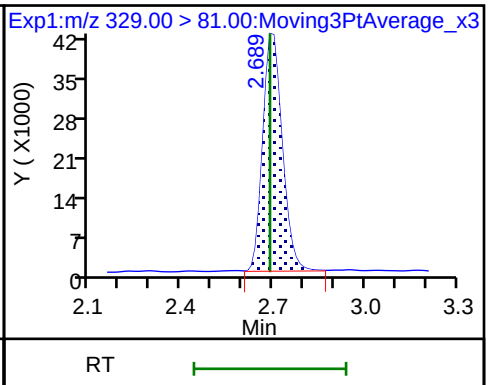
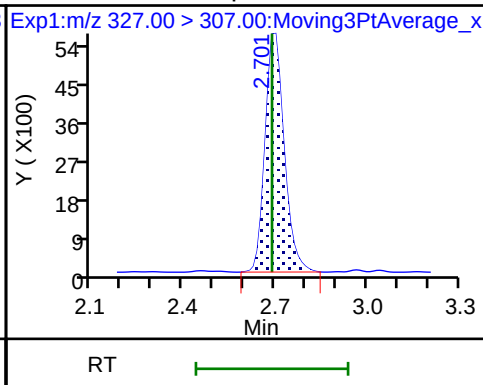
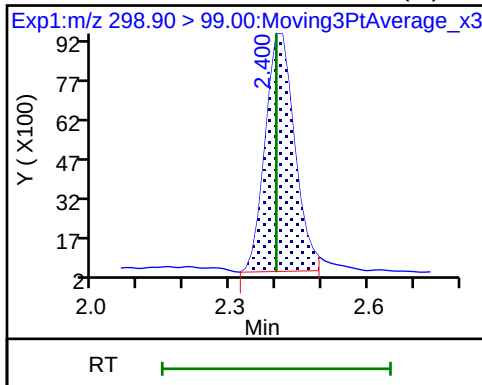
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

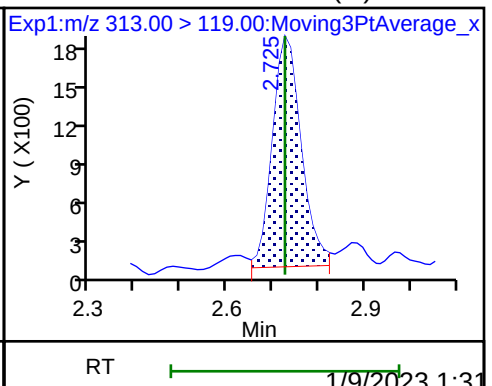
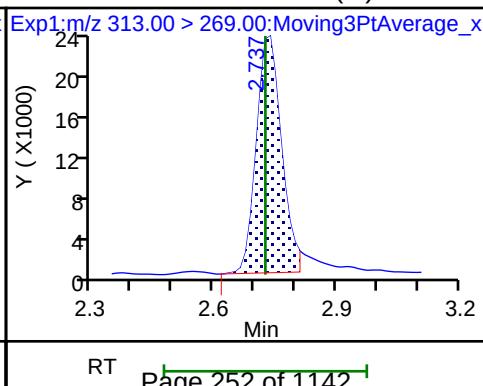
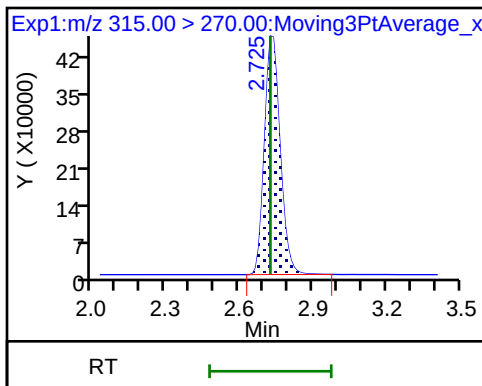
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

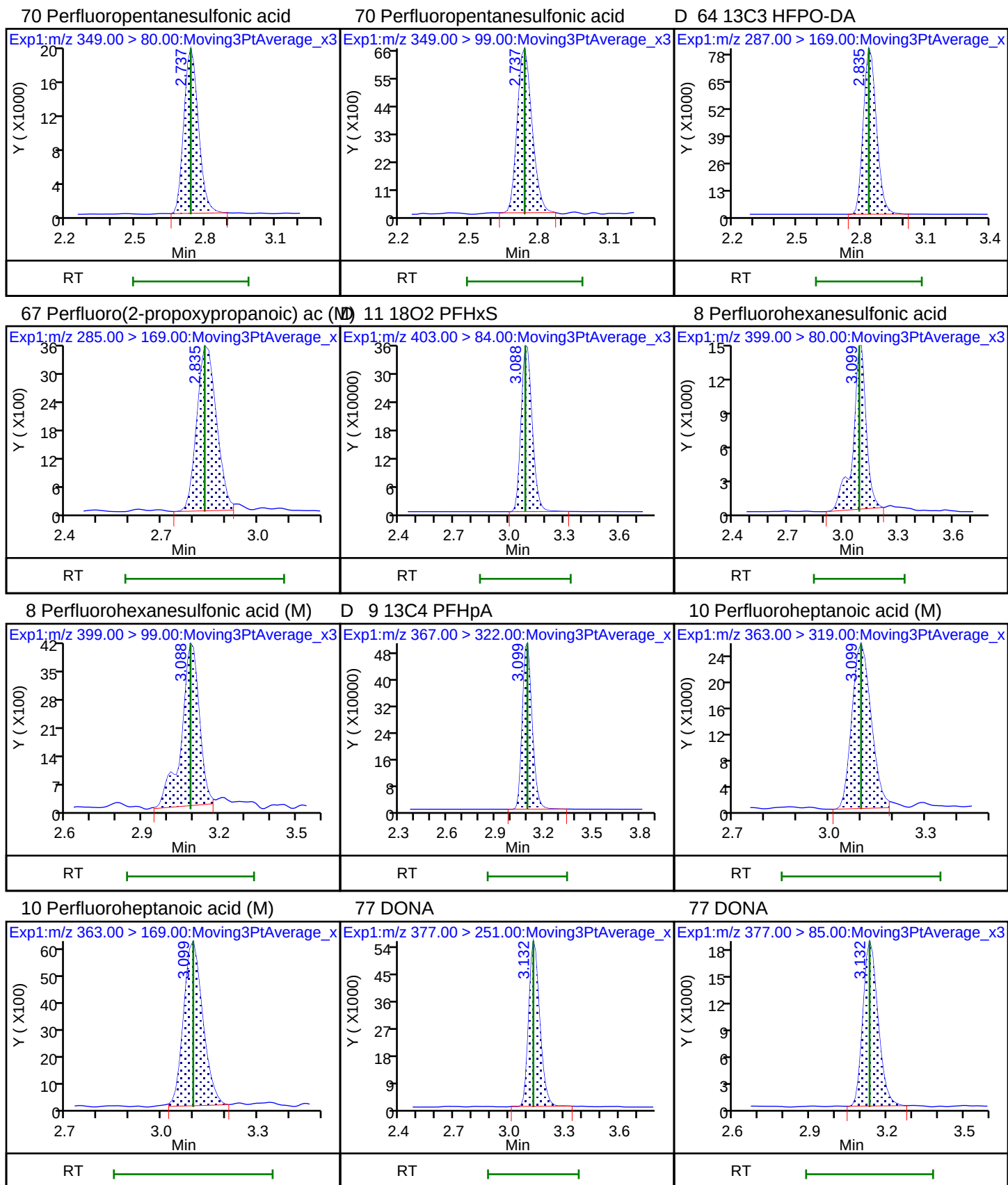


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

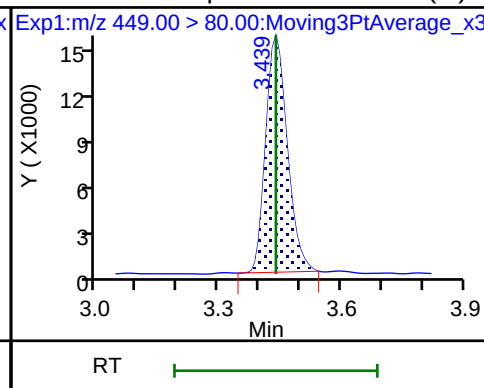
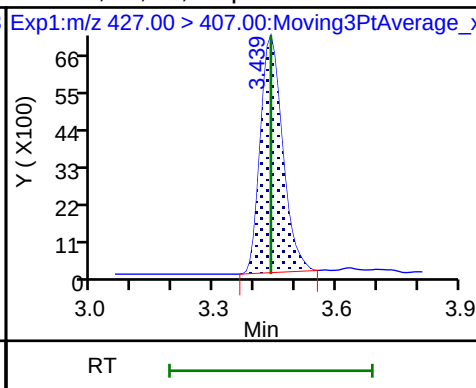
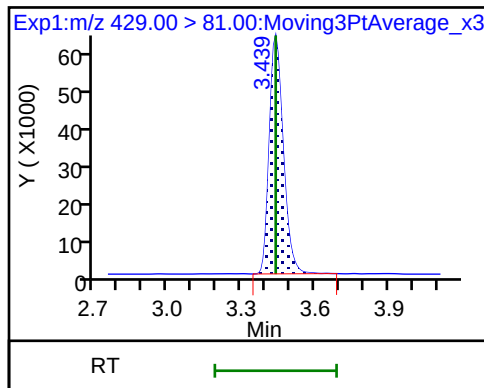




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

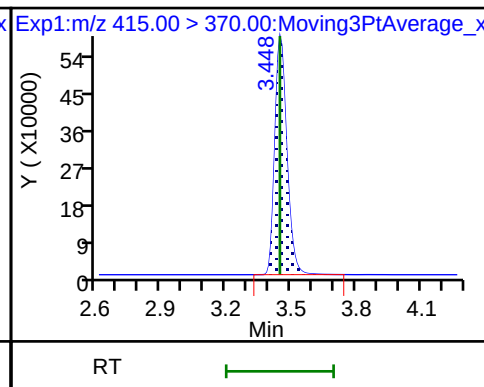
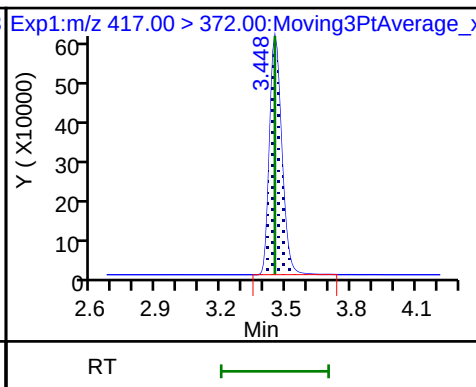
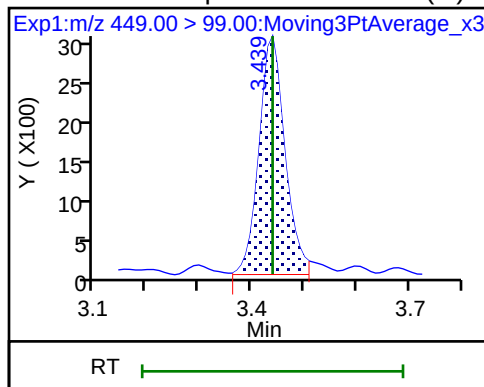
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

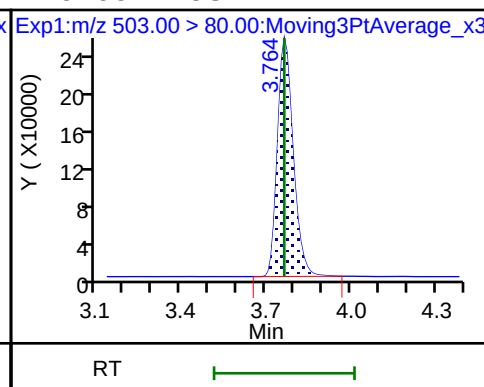
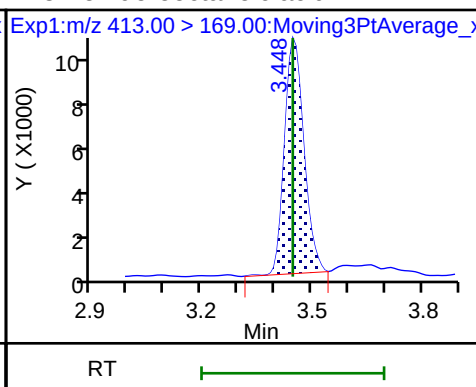
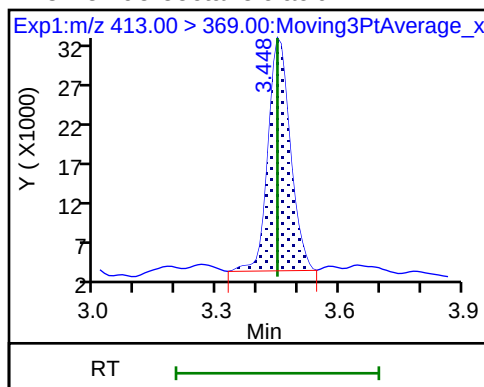
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

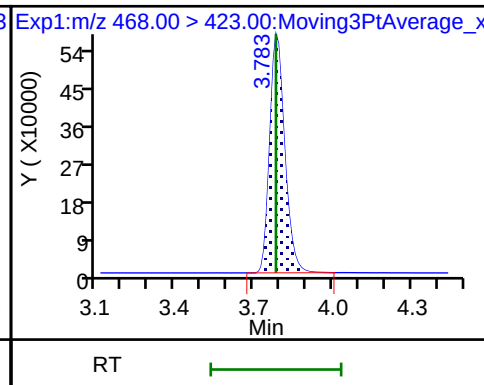
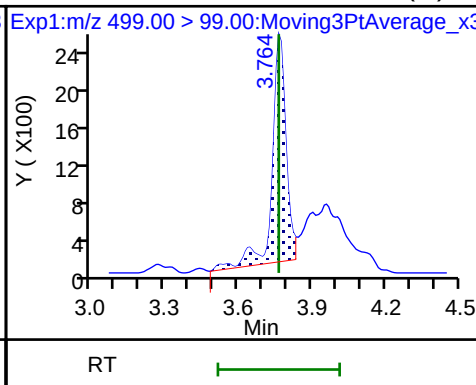
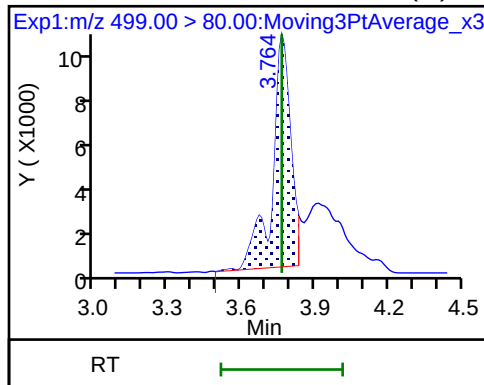
D 18 13C4 PFOS

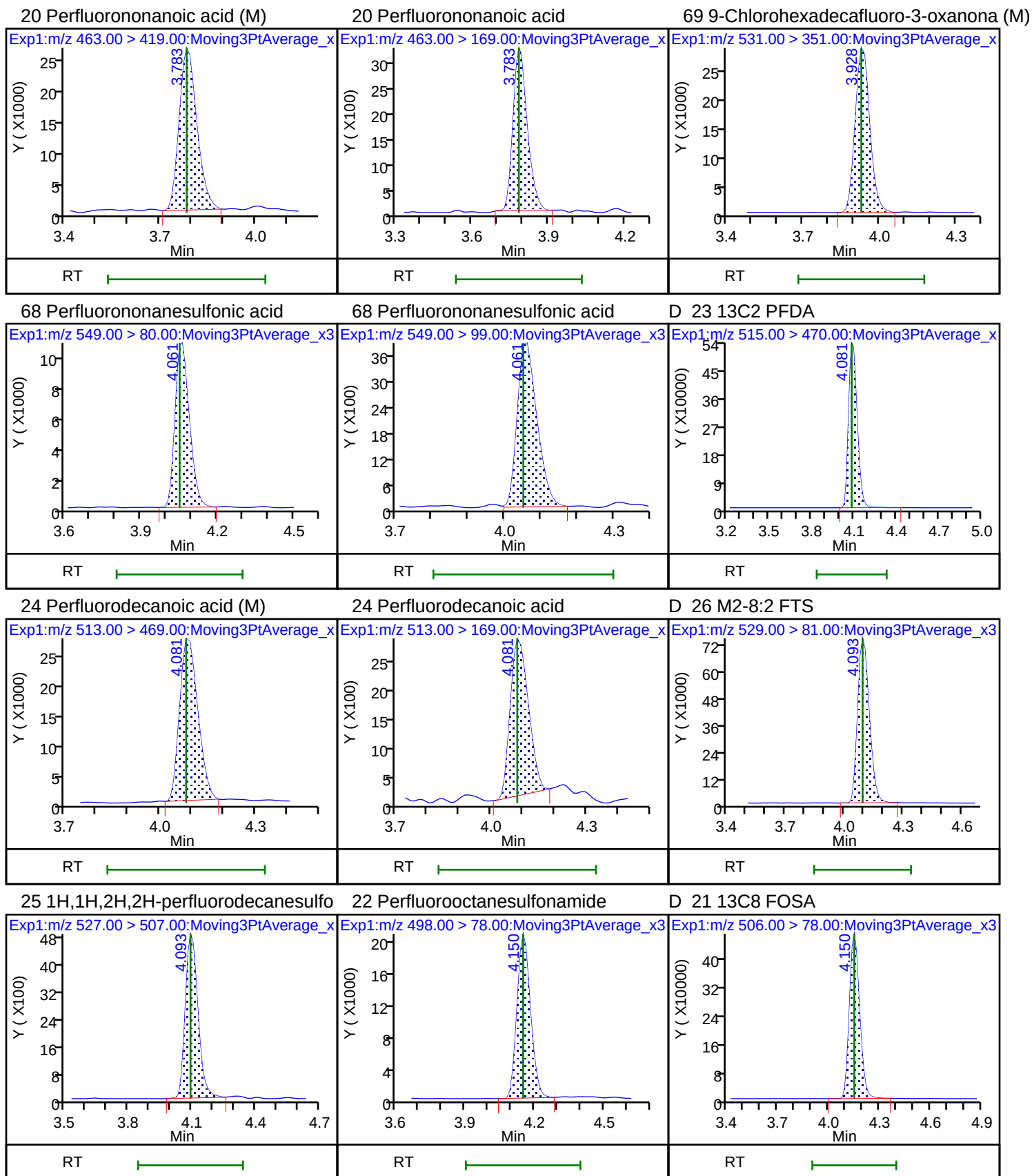


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

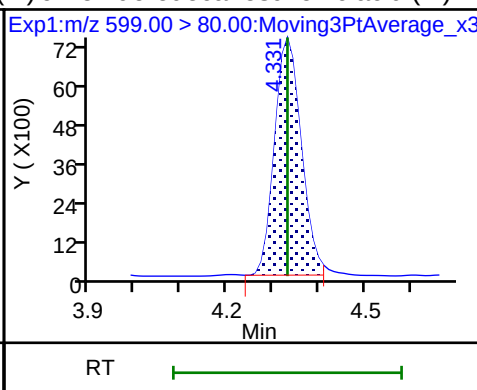
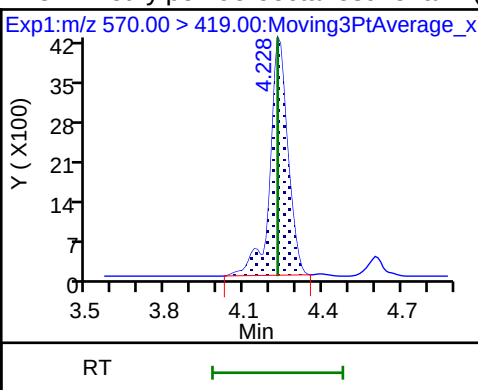
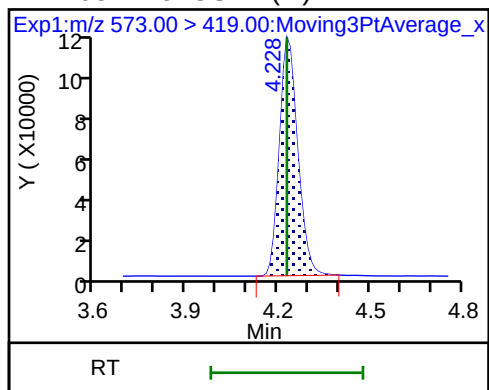




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

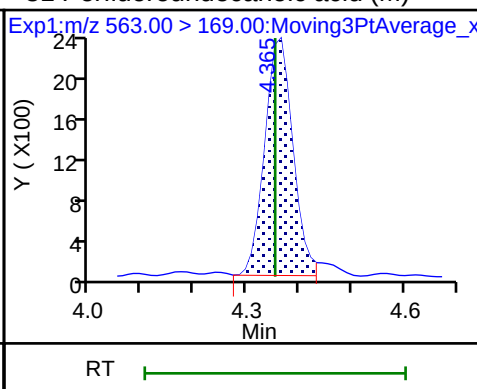
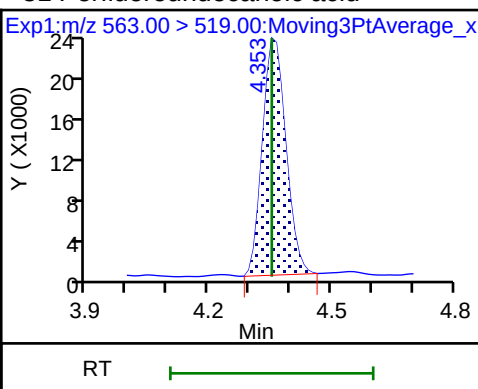
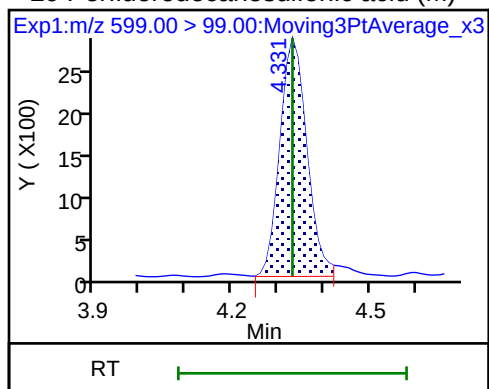
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

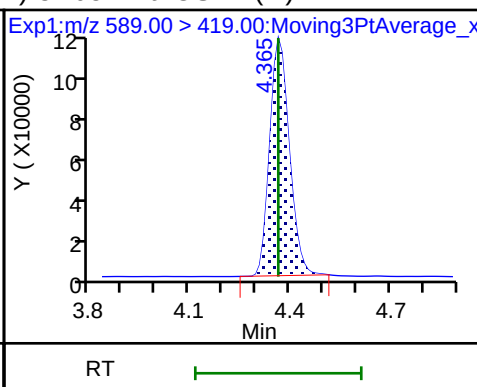
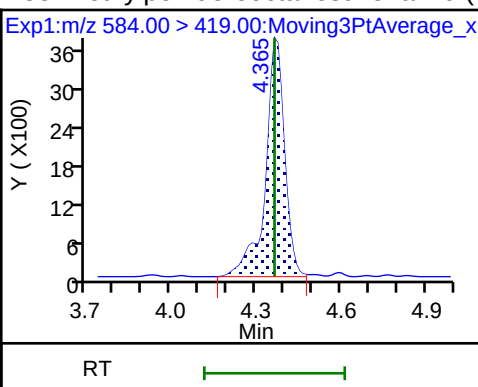
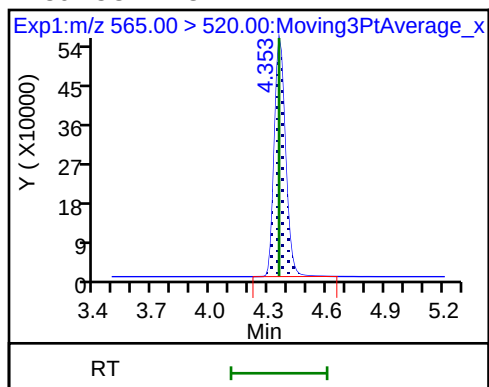
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

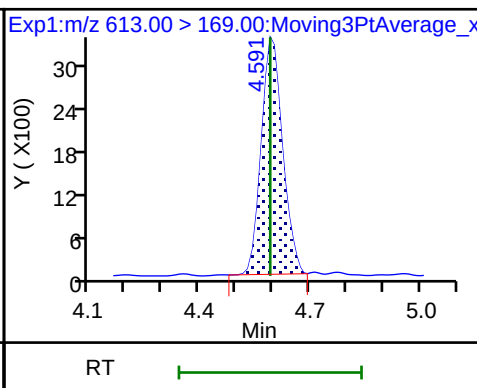
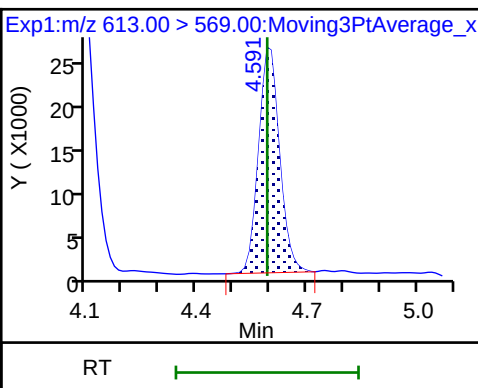
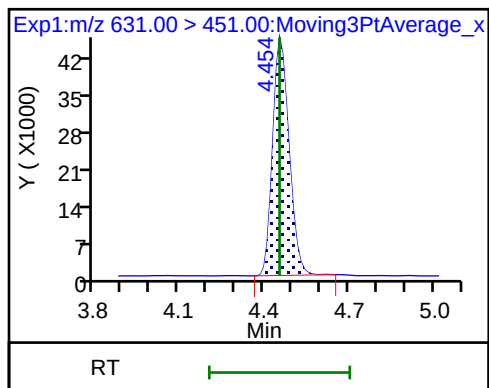
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

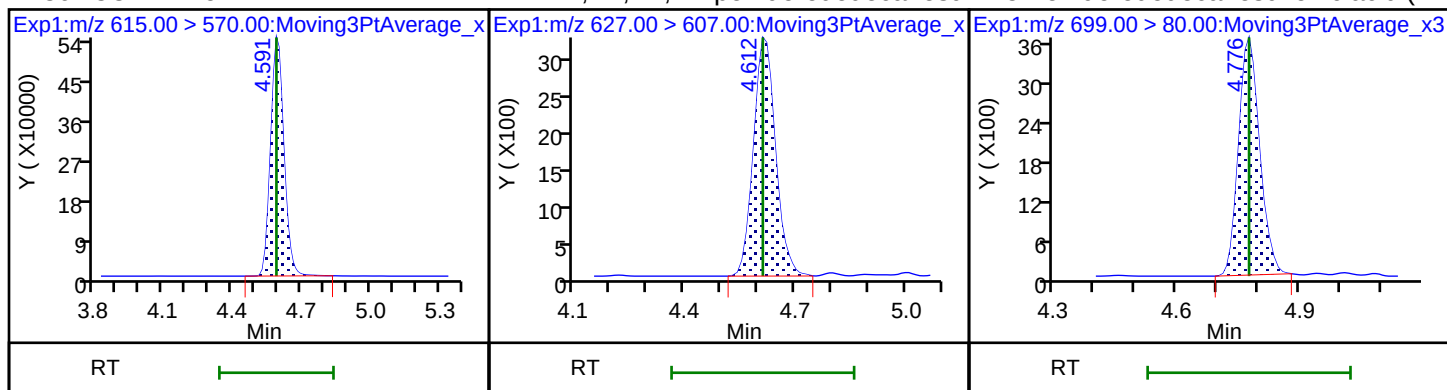
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

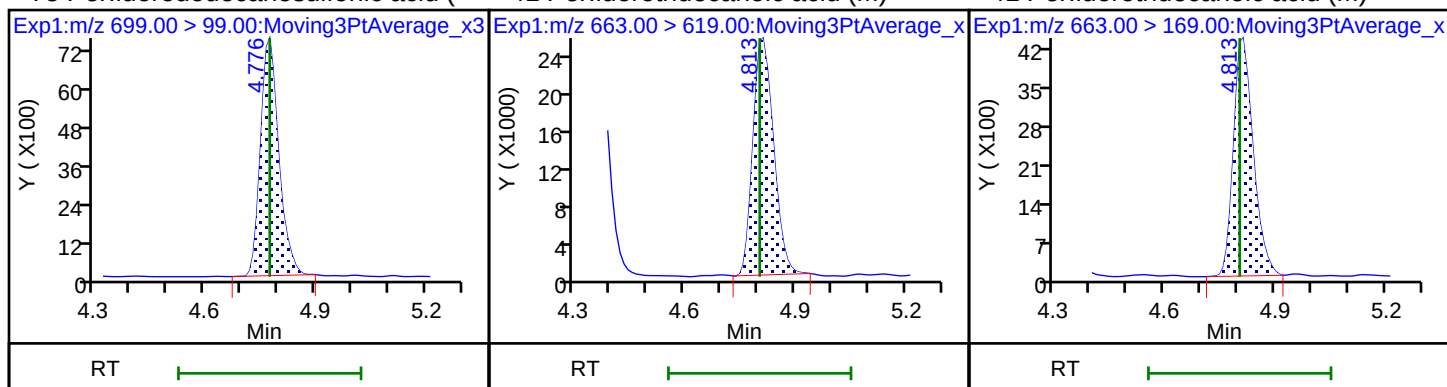
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

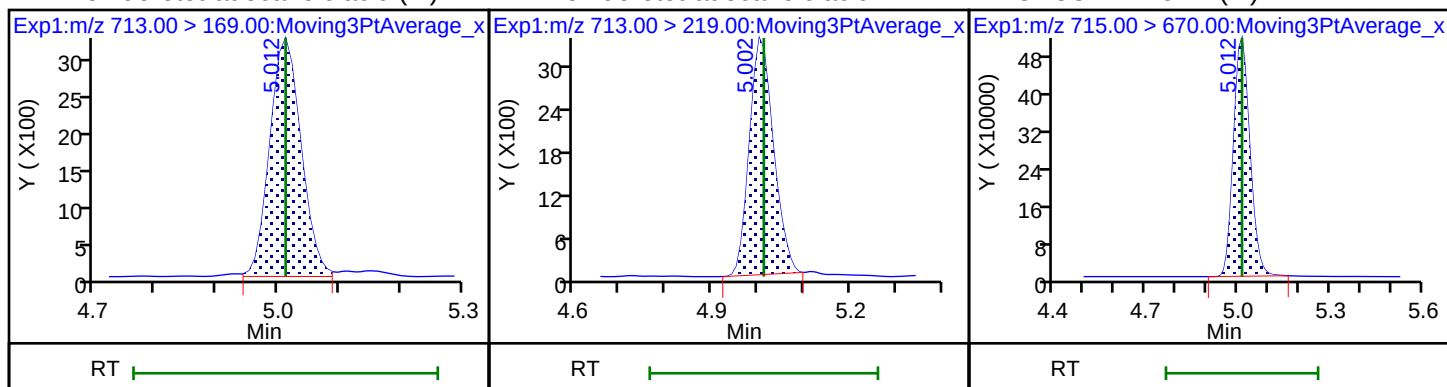
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid

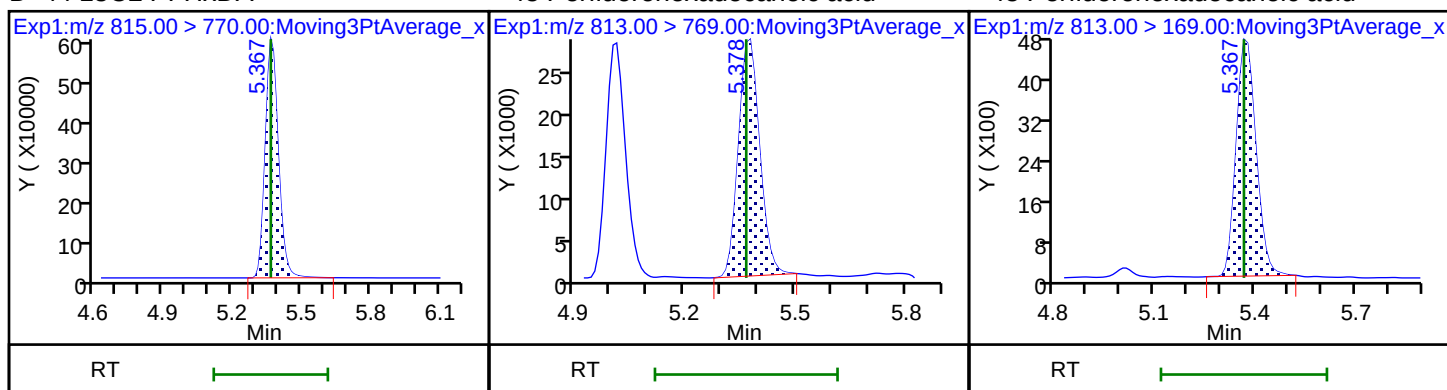
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

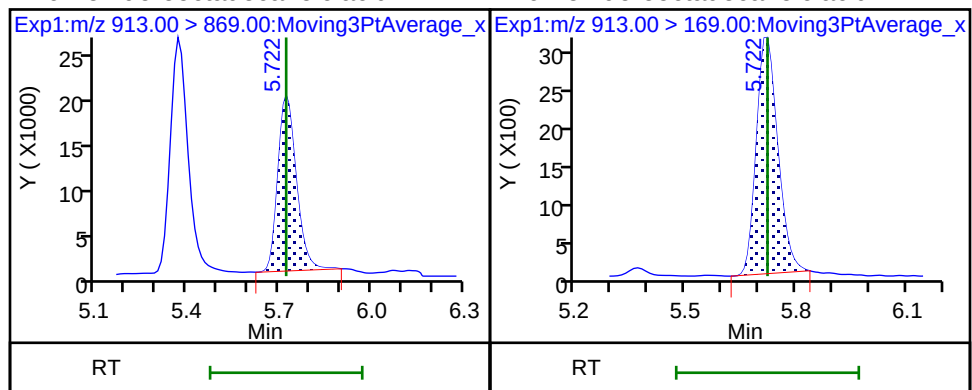
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

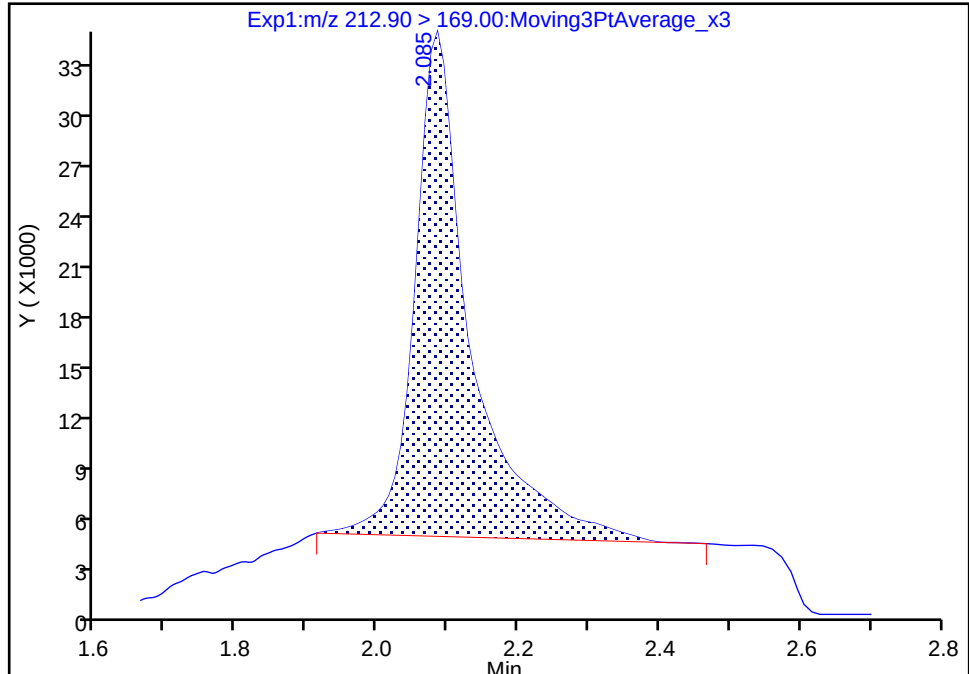
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

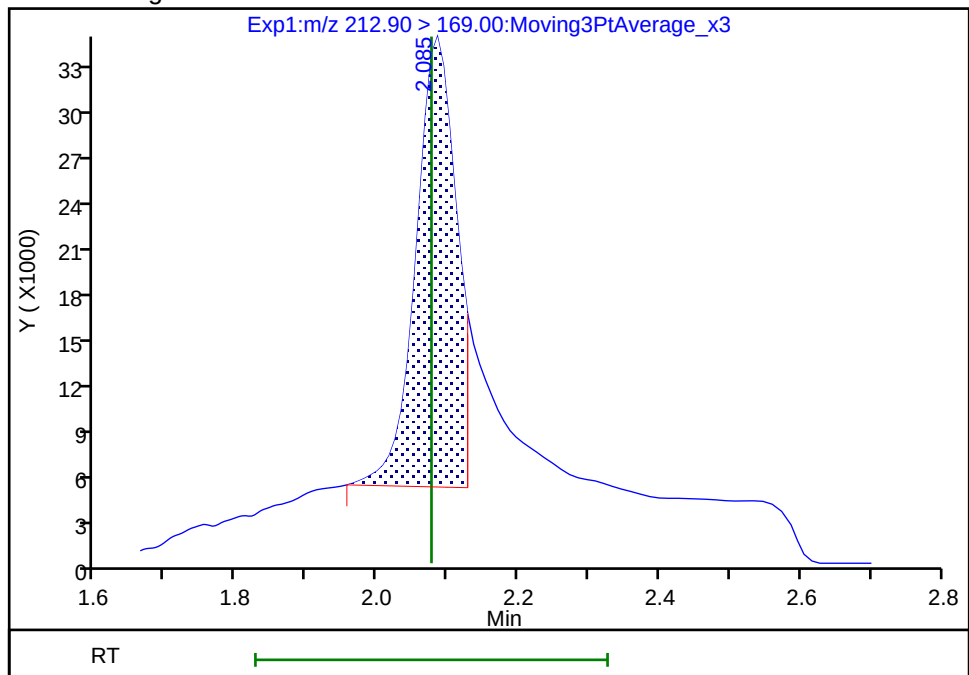
RT: 2.08
Area: 167014
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 117447
Amount: 0.055493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:43:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

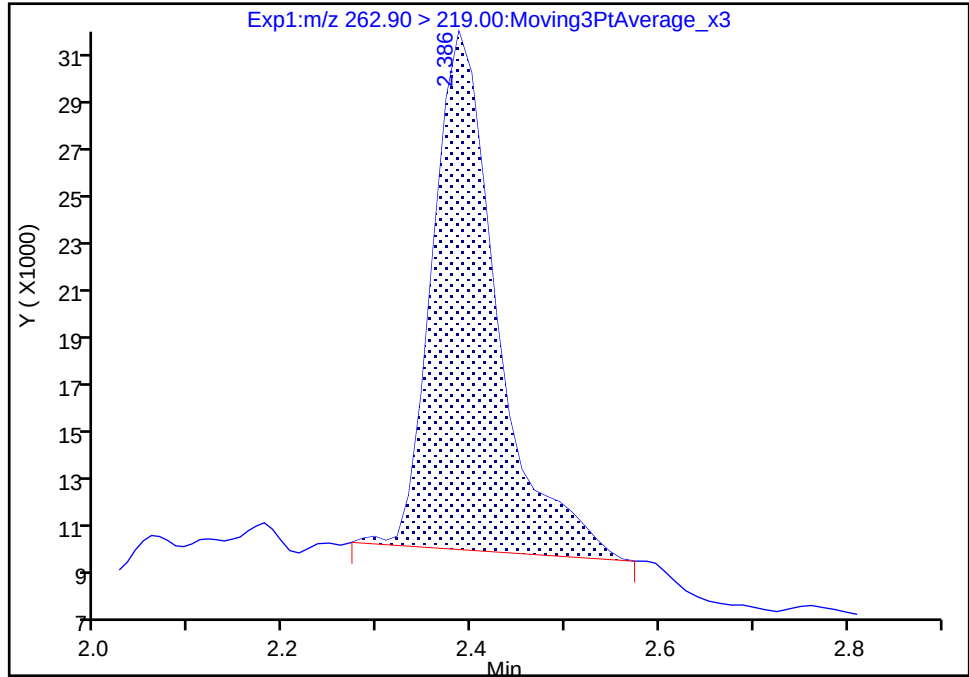
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

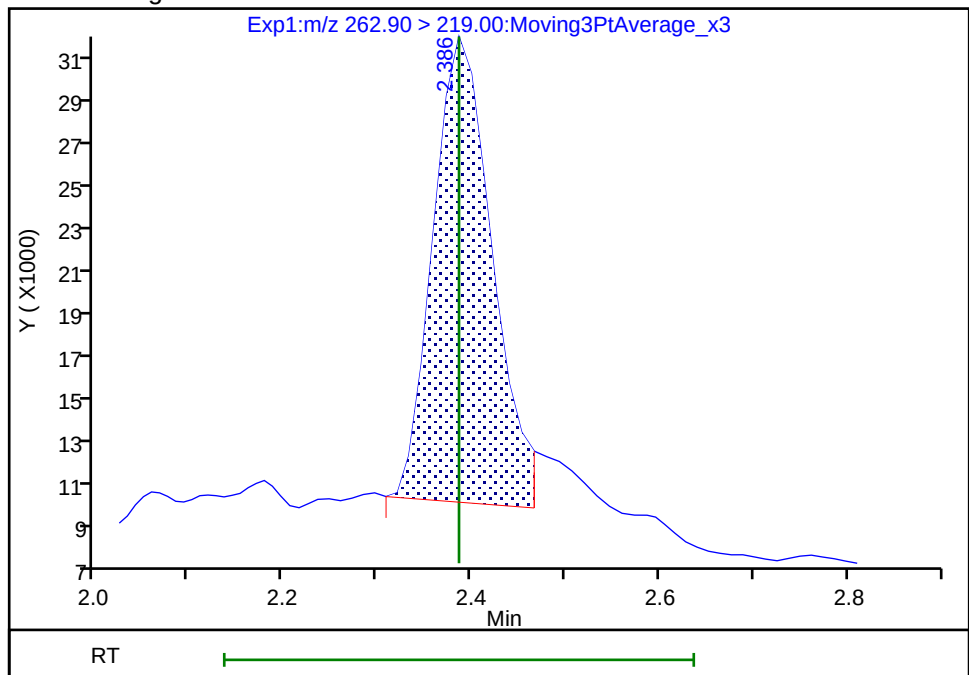
RT: 2.39
Area: 100957
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 91274
Amount: 0.053984
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

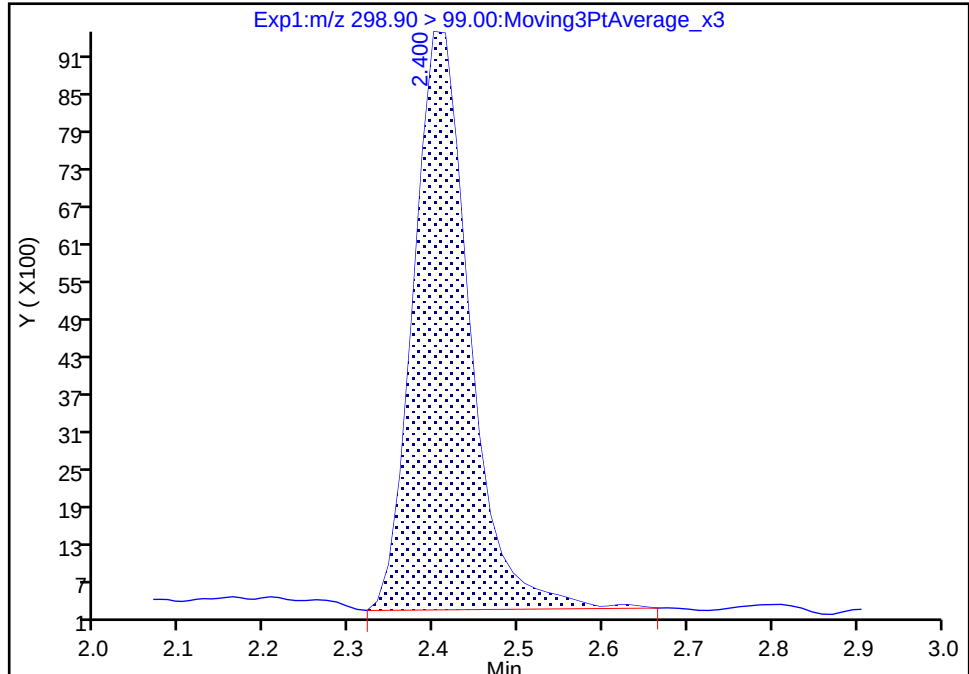
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

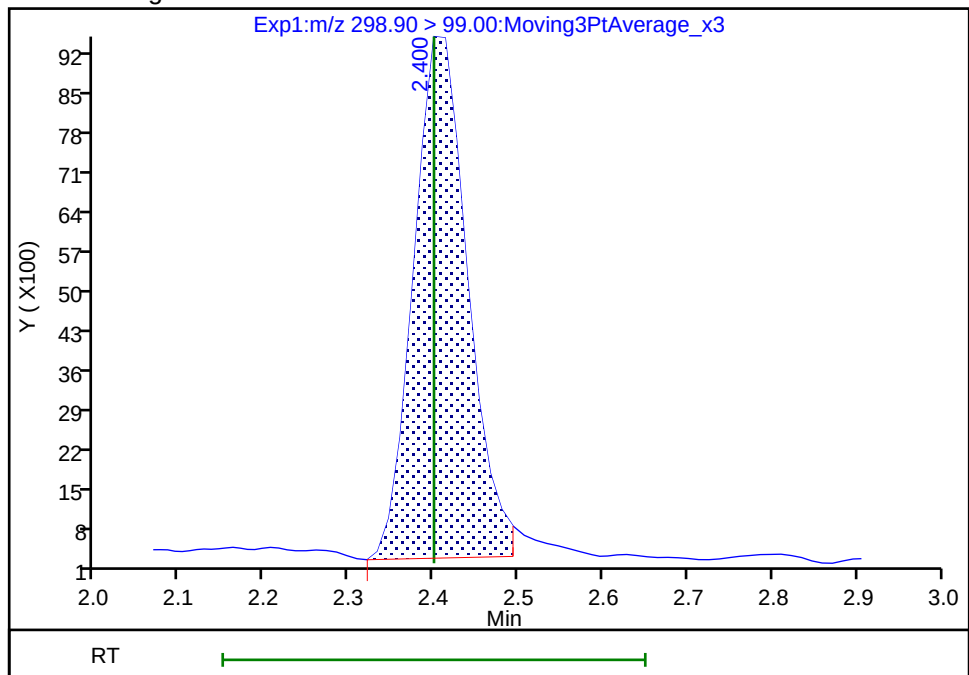
RT: 2.40
Area: 42716
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 40889
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

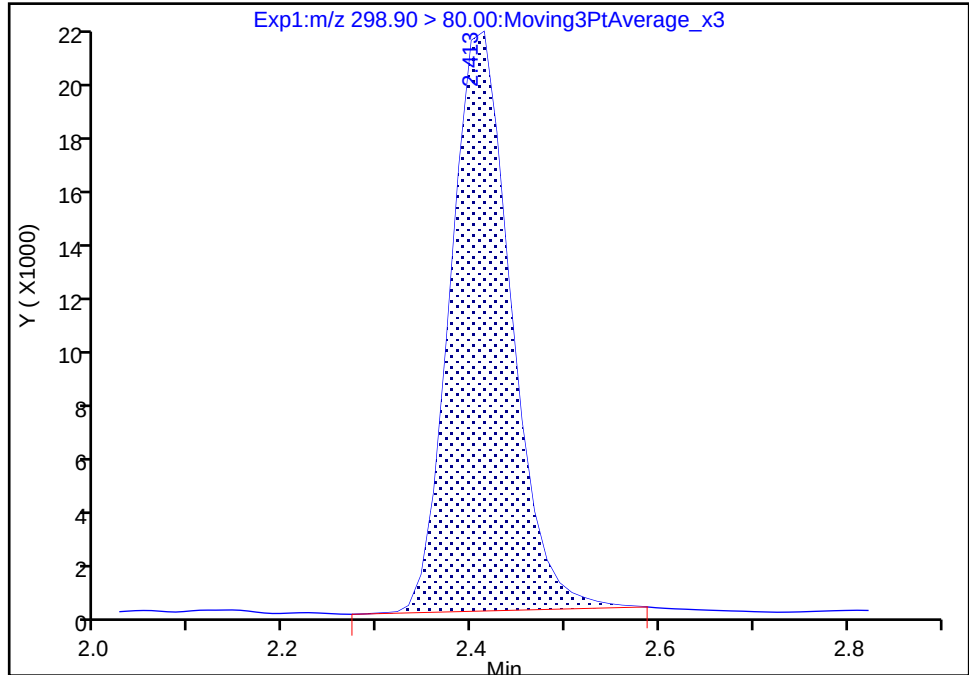
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

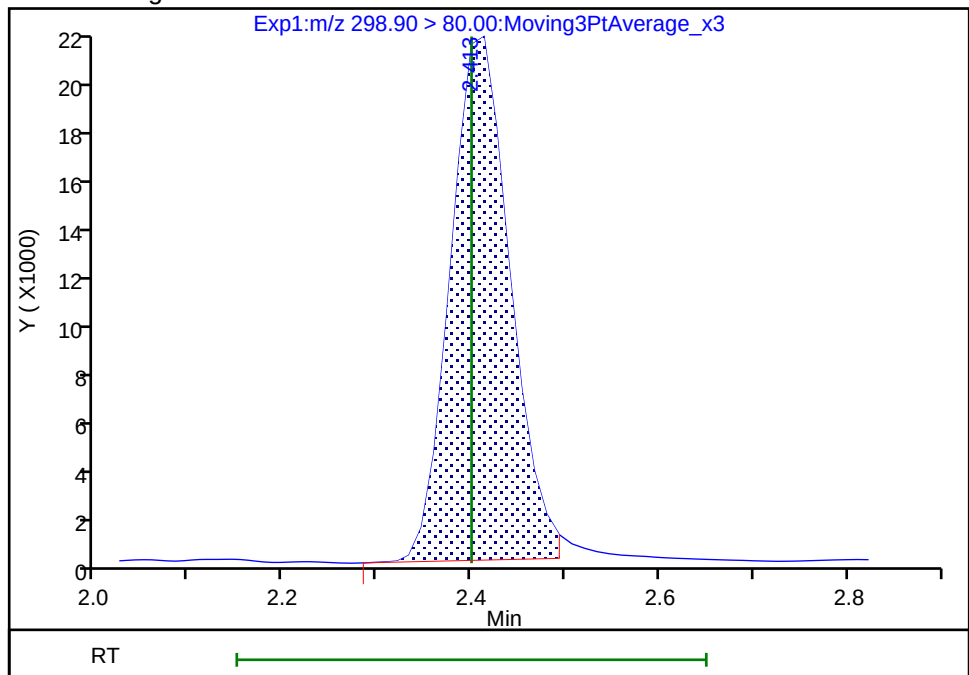
RT: 2.41
Area: 95701
Amount: 0.044200
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 94070
Amount: 0.048736
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

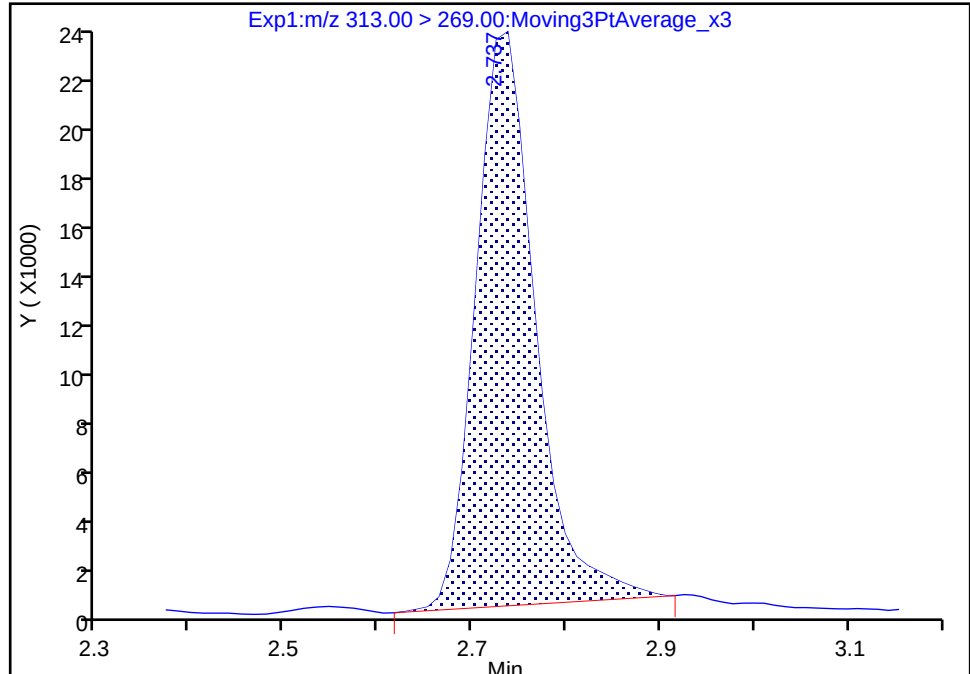
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

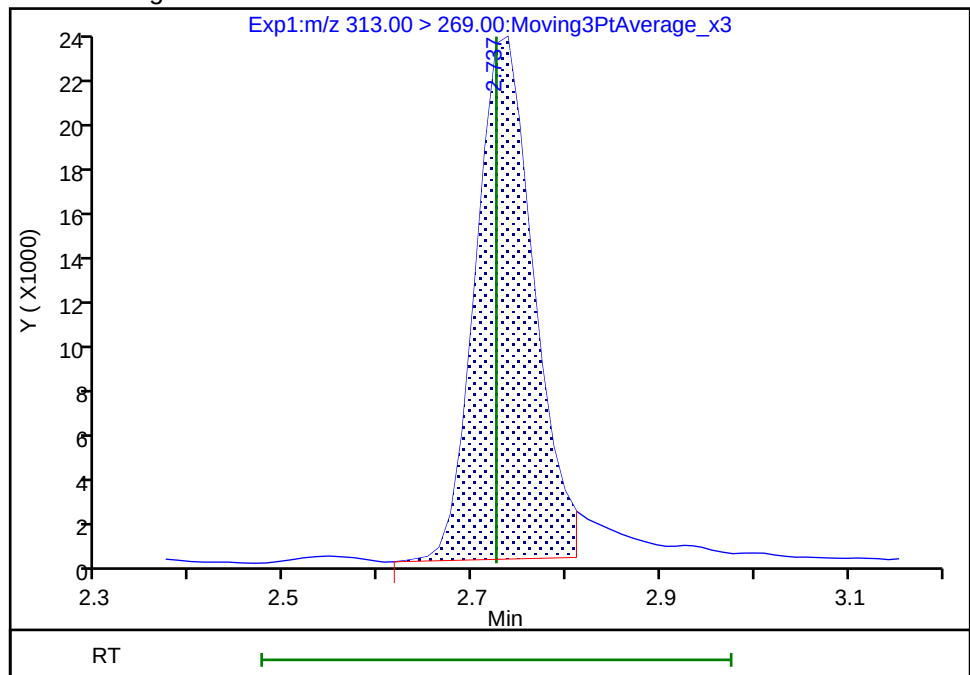
RT: 2.74
Area: 96124
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 93459
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

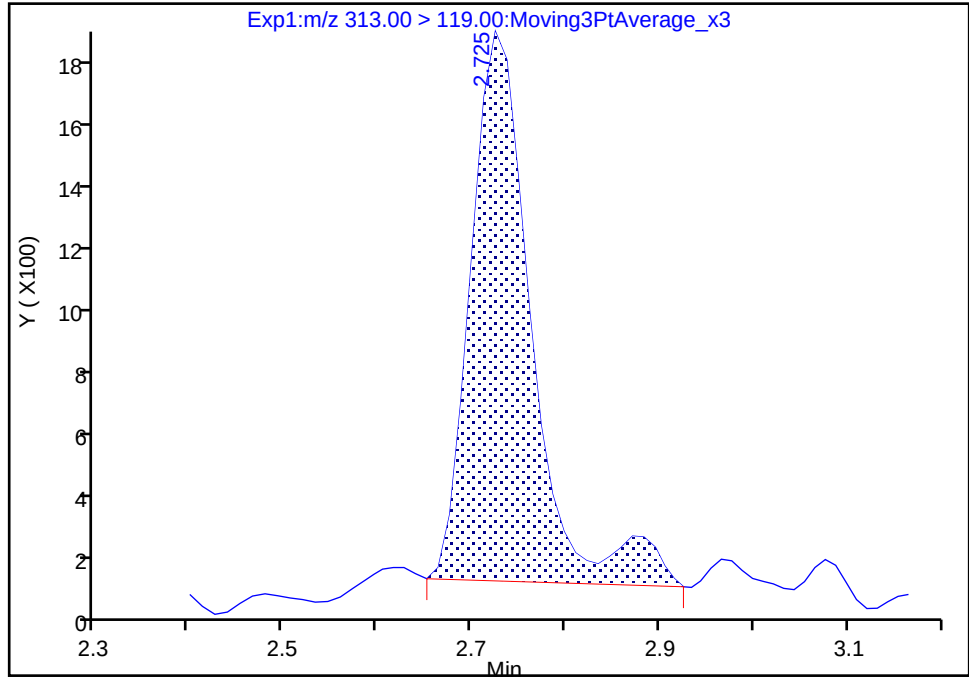
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

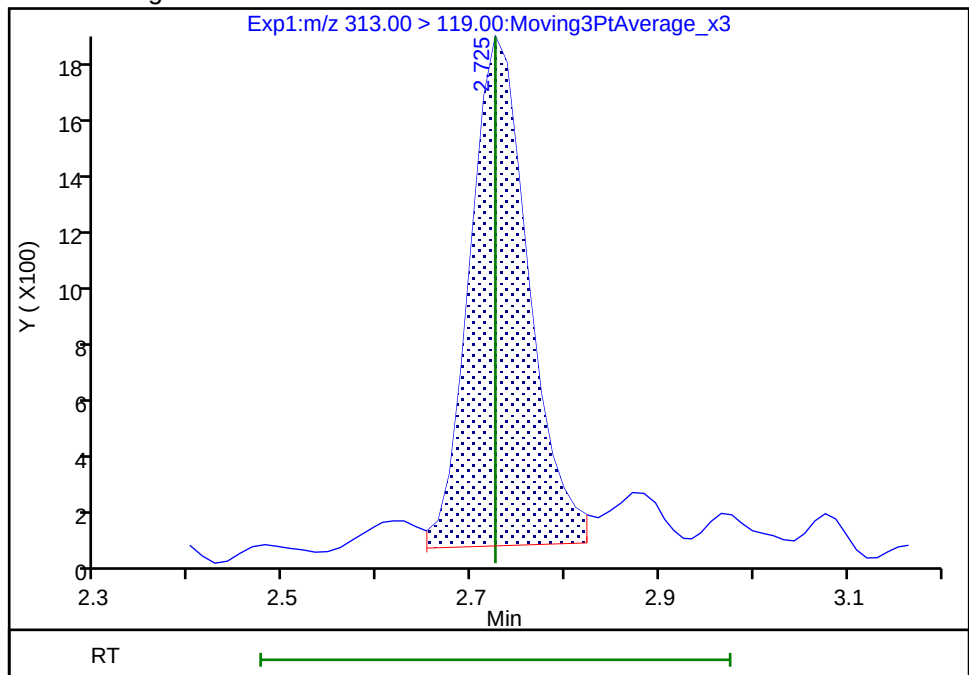
RT: 2.73
Area: 7775
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 7632
Amount: 0.053742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:44:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 264 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

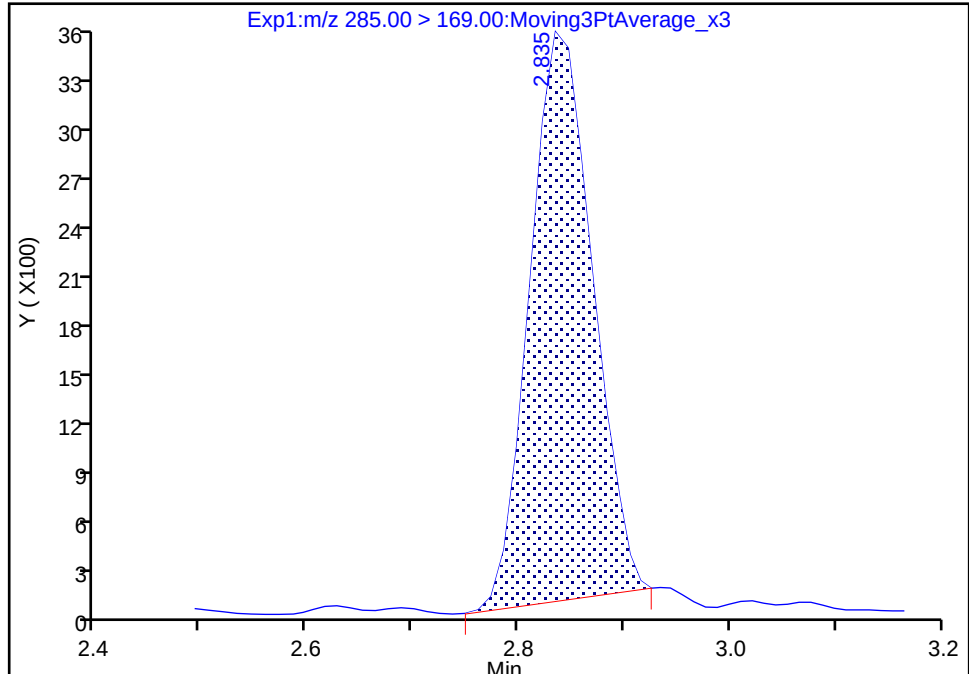
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

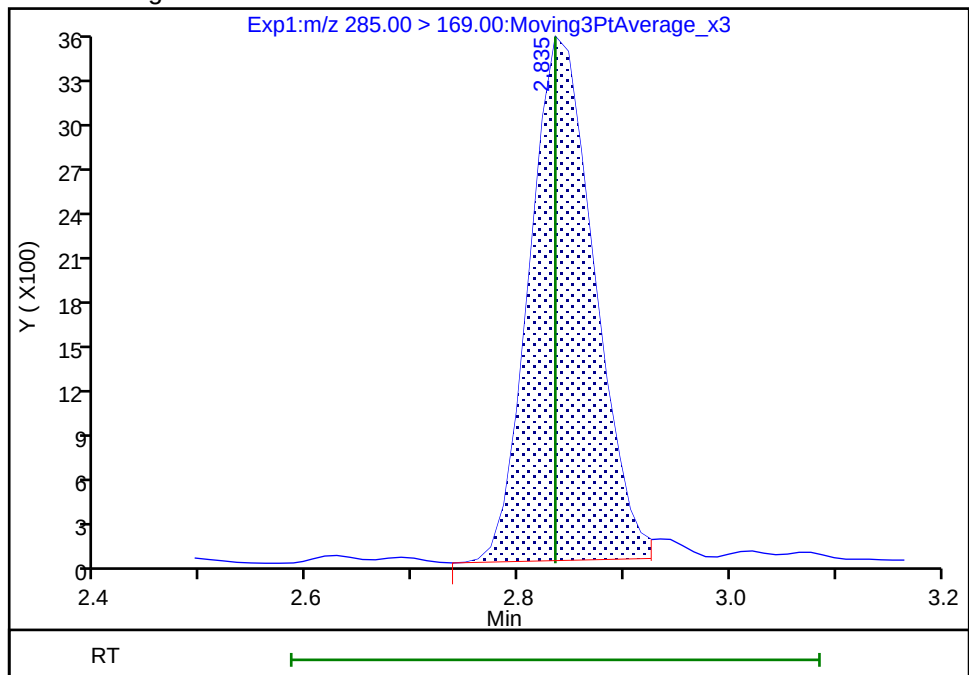
RT: 2.83
Area: 14159
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 14811
Amount: 0.051880
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

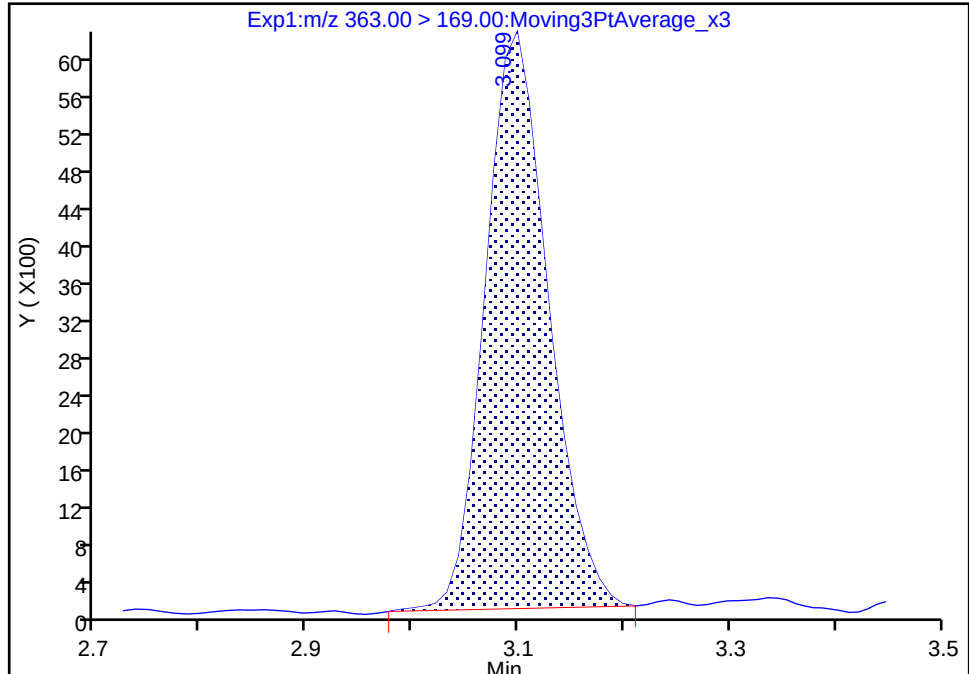
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

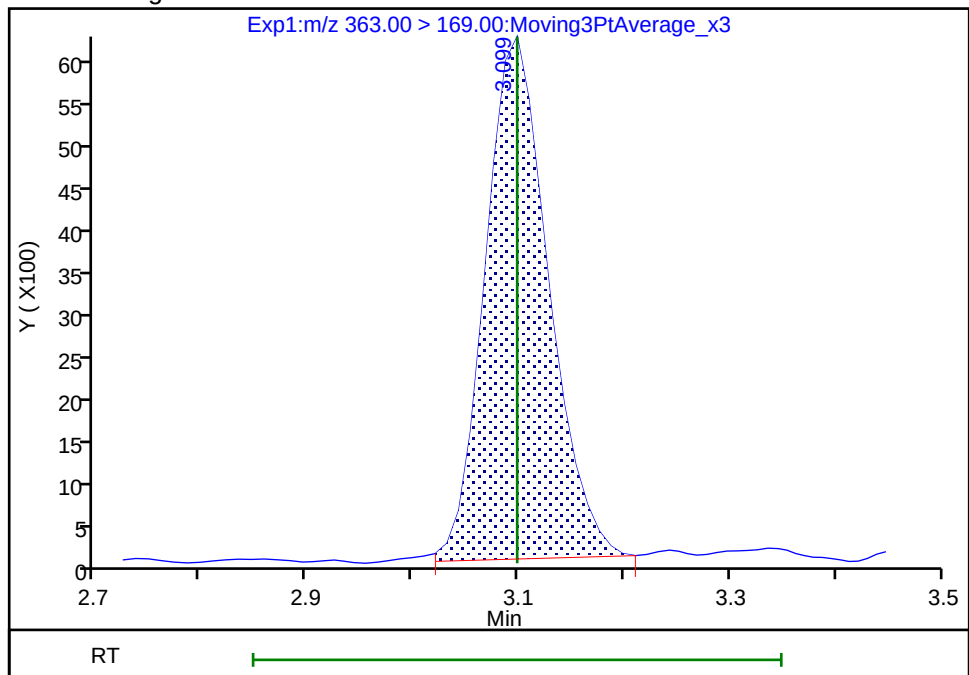
RT: 3.10
Area: 25598
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 25626
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

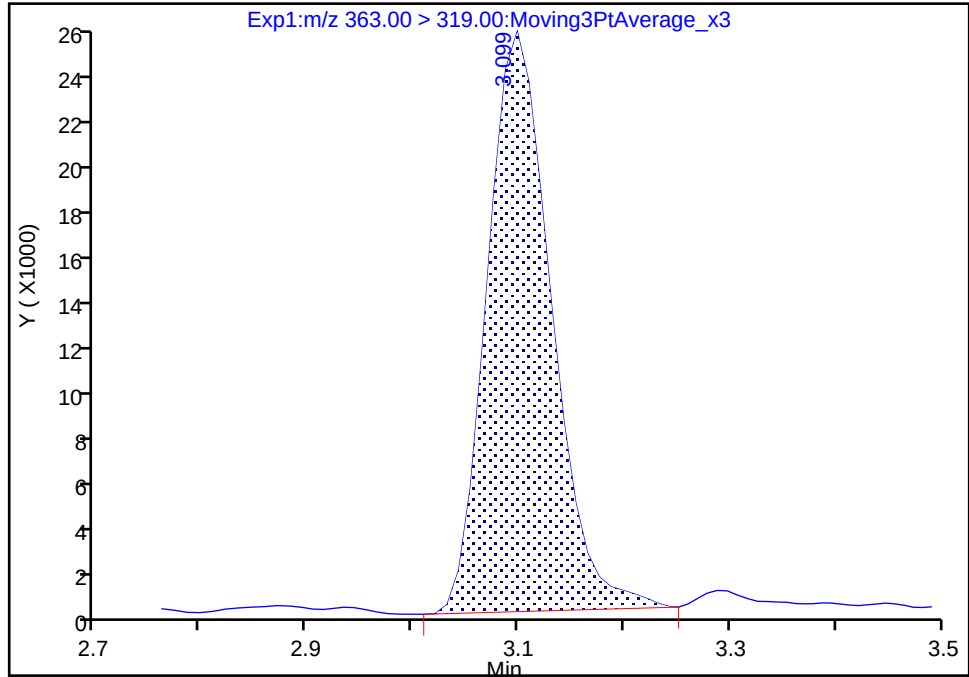
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

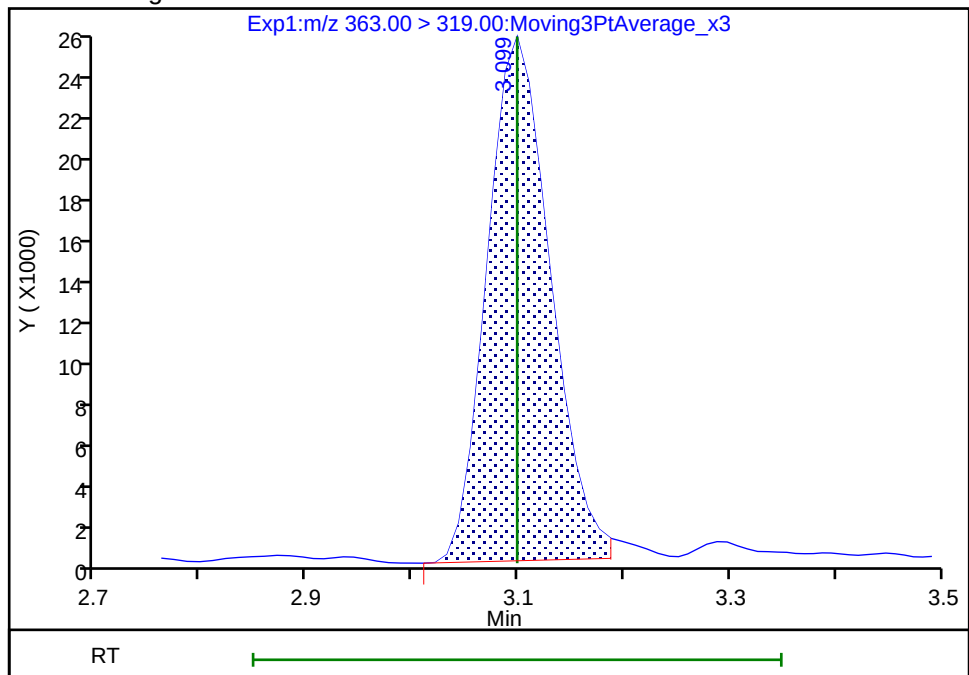
RT: 3.10
Area: 102094
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 100453
Amount: 0.054935
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

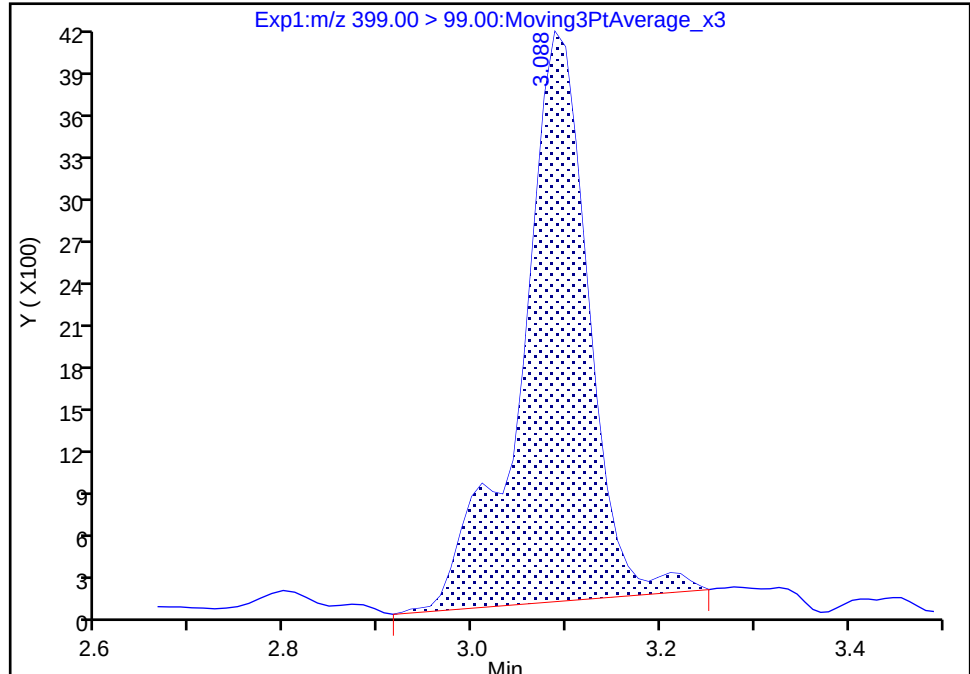
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

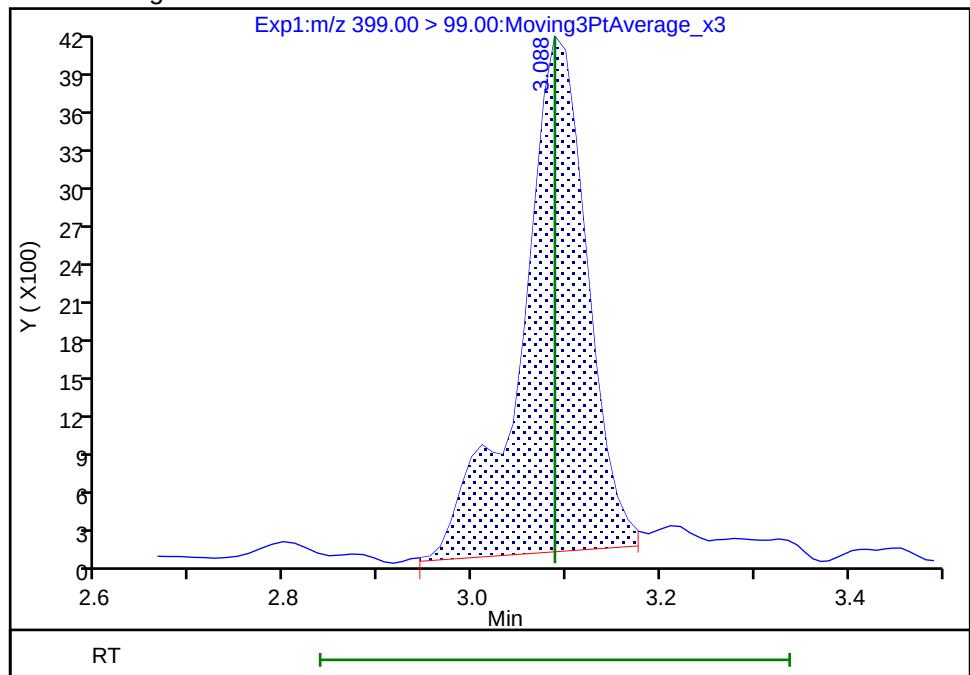
RT: 3.09
Area: 19897
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 19455
Amount: 0.049046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

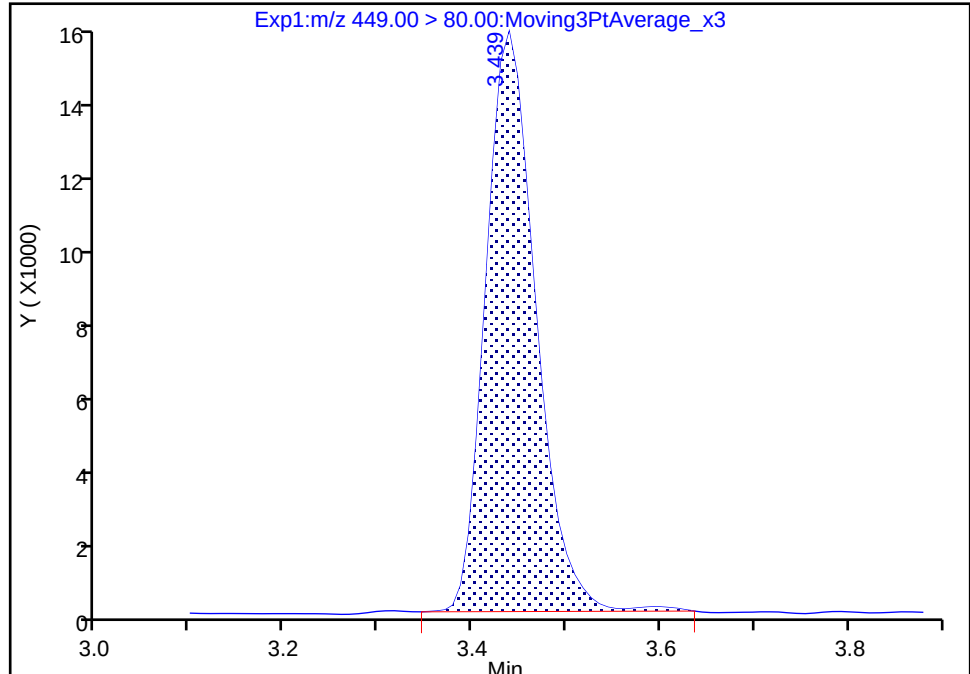
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d		
Injection Date:	18-Nov-2022 14:29:54	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	5

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

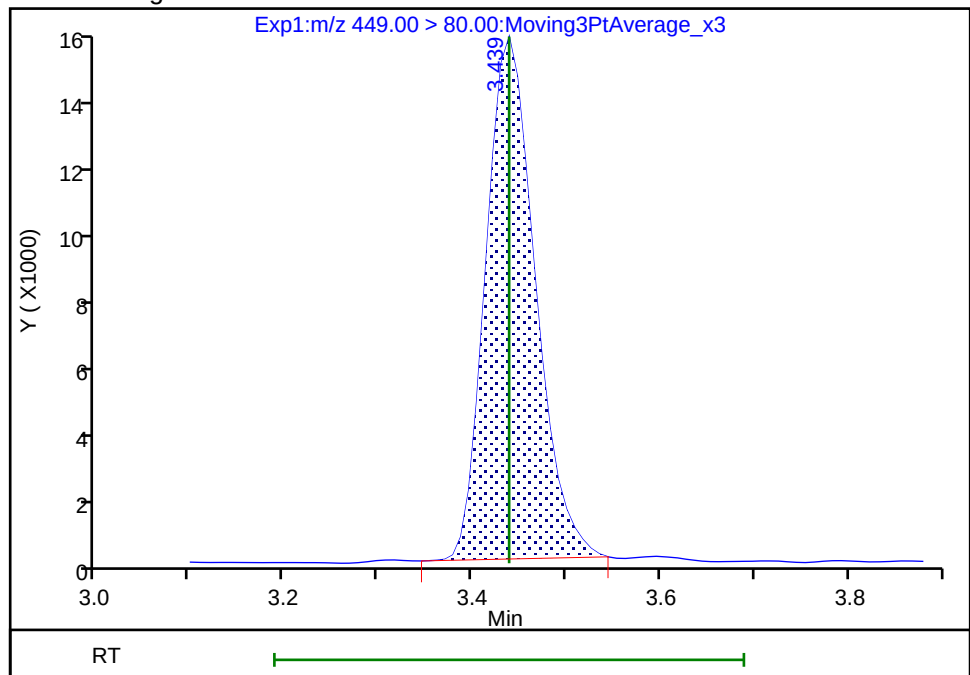
RT: 3.44
Area: 58353
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 57260
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

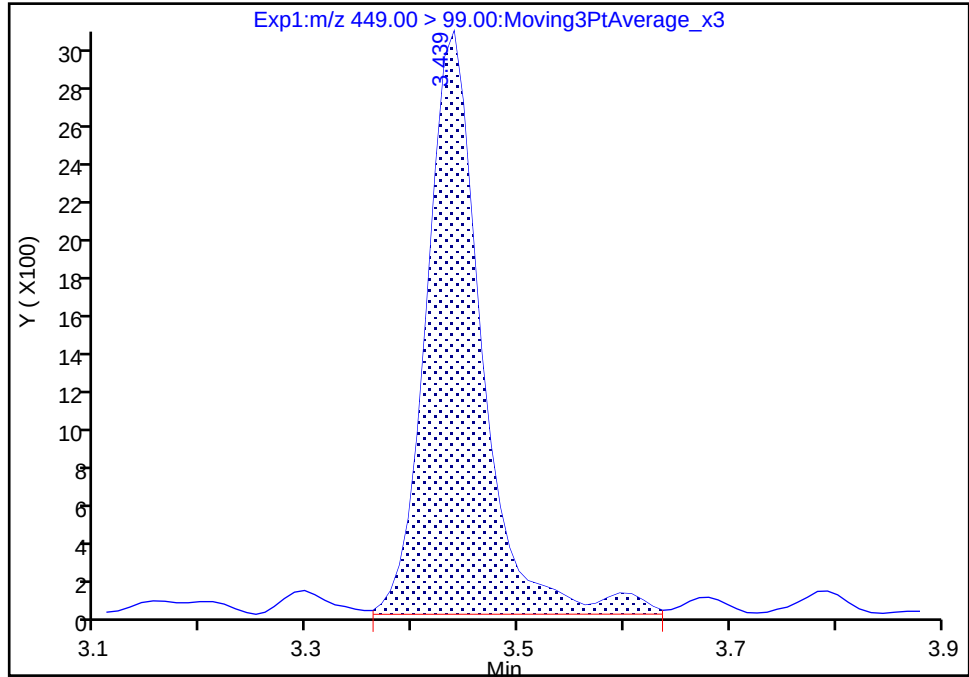
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

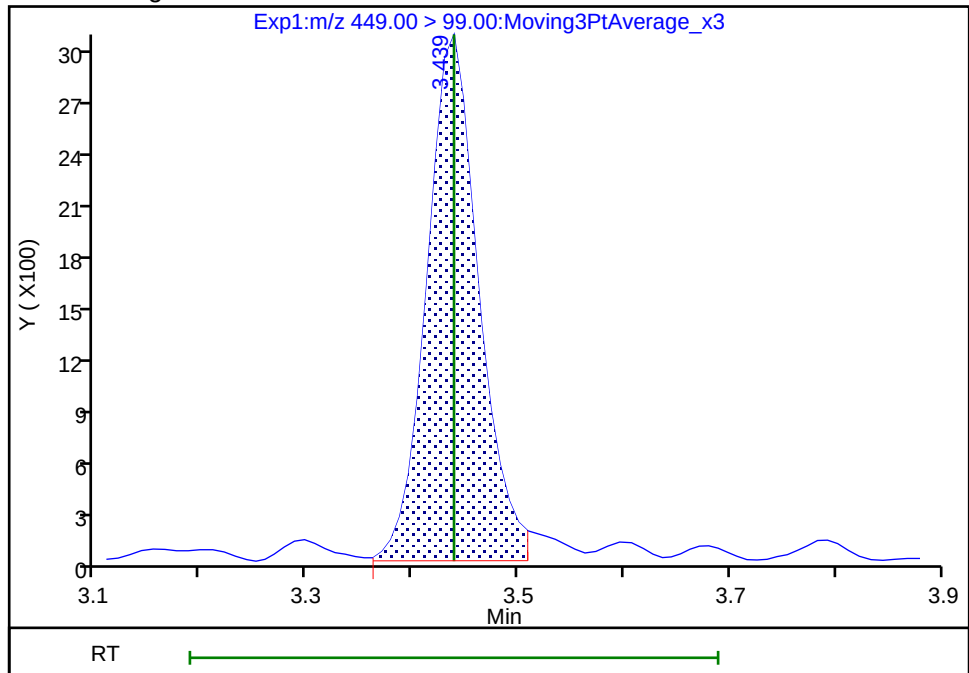
RT: 3.44
Area: 11226
Amount: 0.047600
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 10494
Amount: 0.049533
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:45:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 270 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

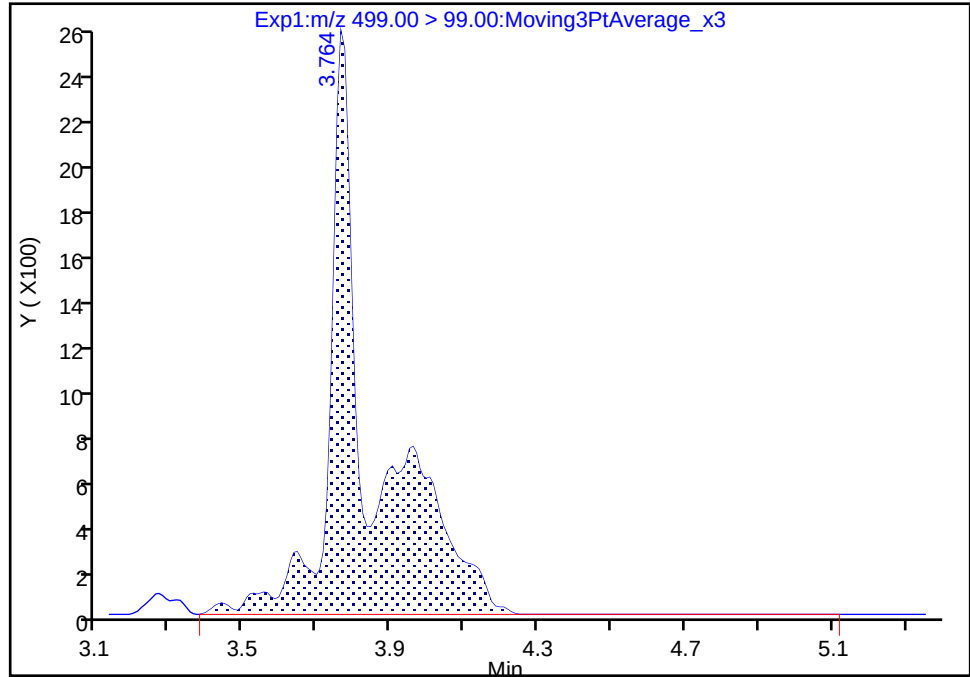
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

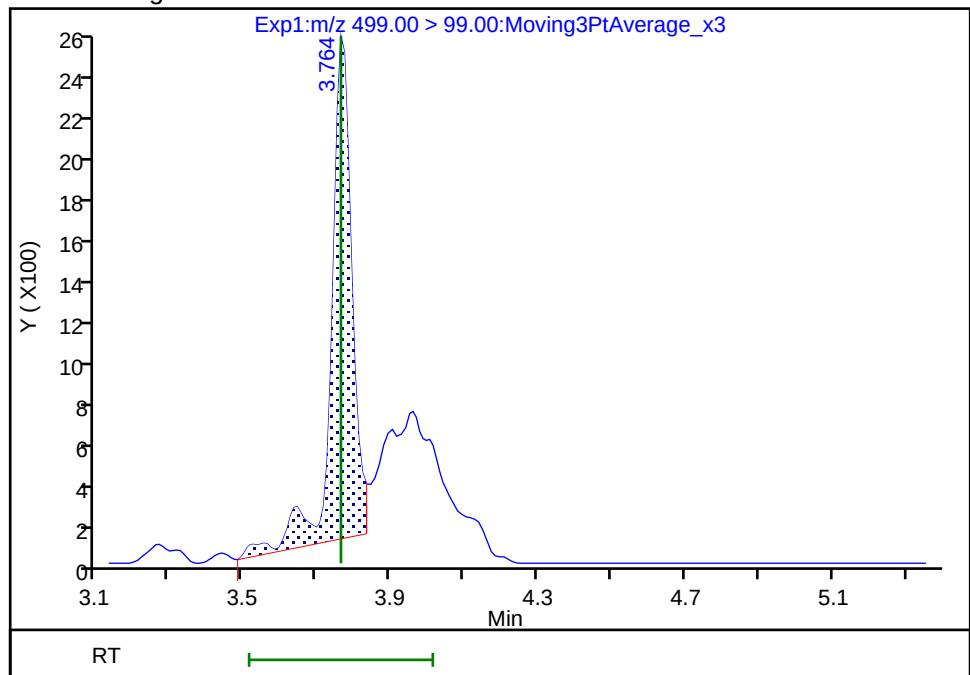
RT: 3.76
Area: 20272
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 9421
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

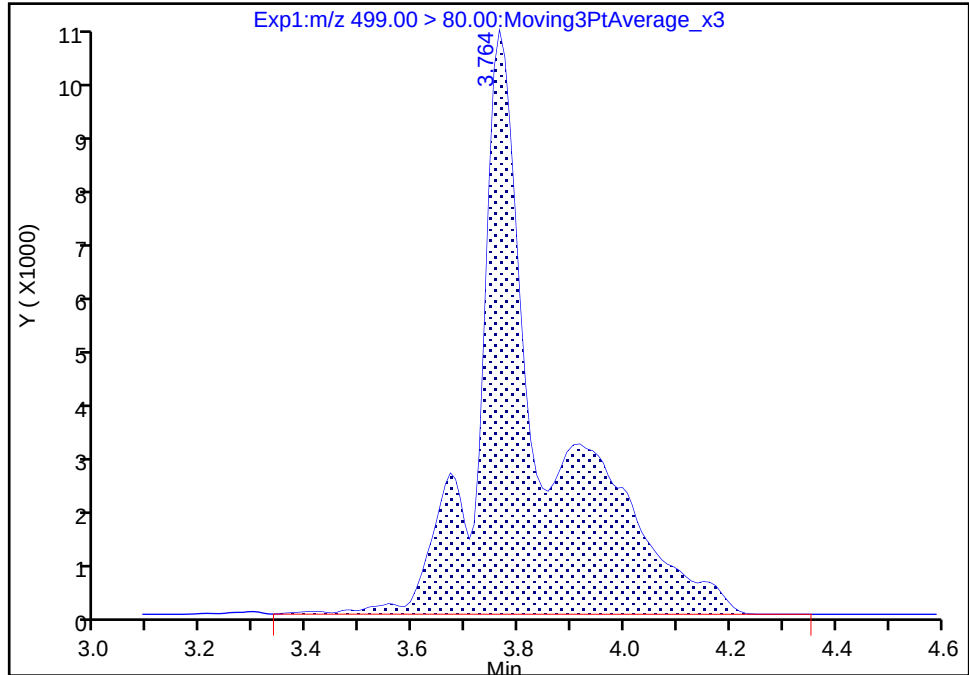
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

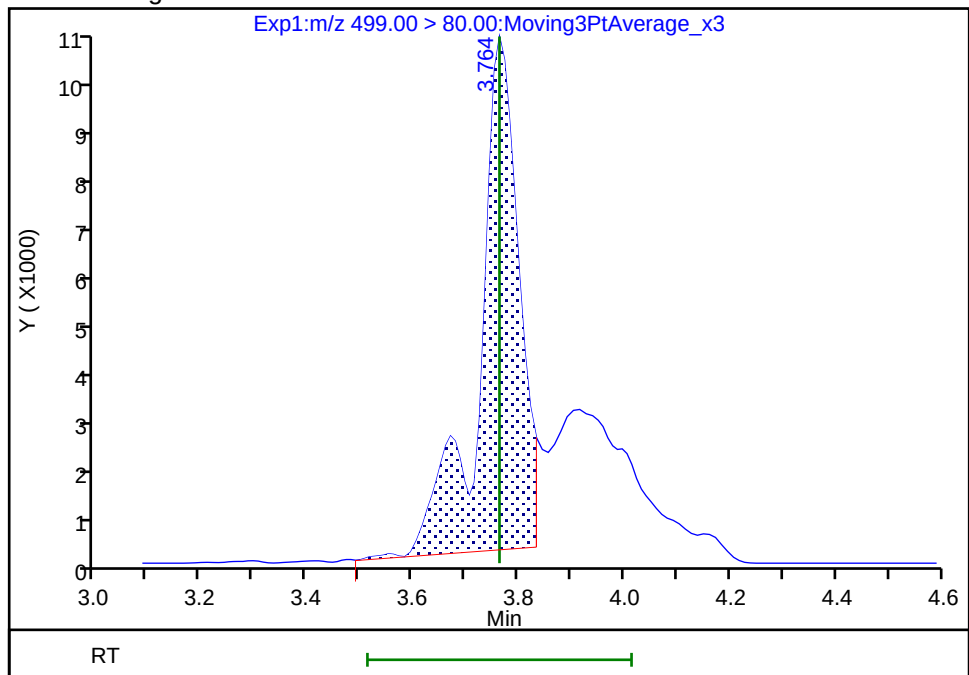
RT: 3.76
Area: 95043
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 53166
Amount: 0.052820
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:11:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 272 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

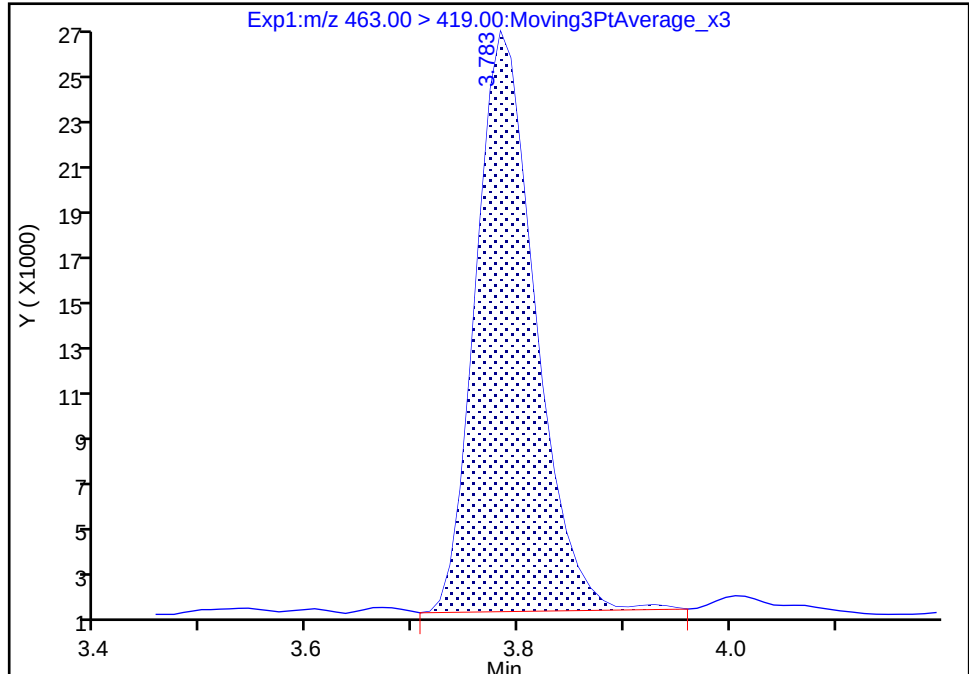
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

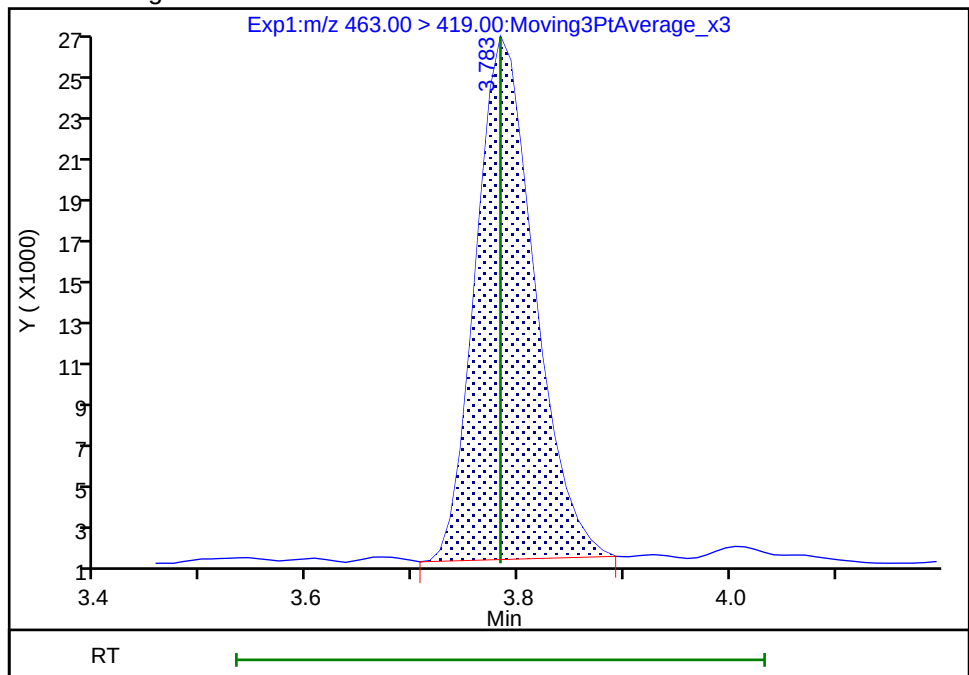
RT: 3.78
Area: 99415
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 98046
Amount: 0.051796
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

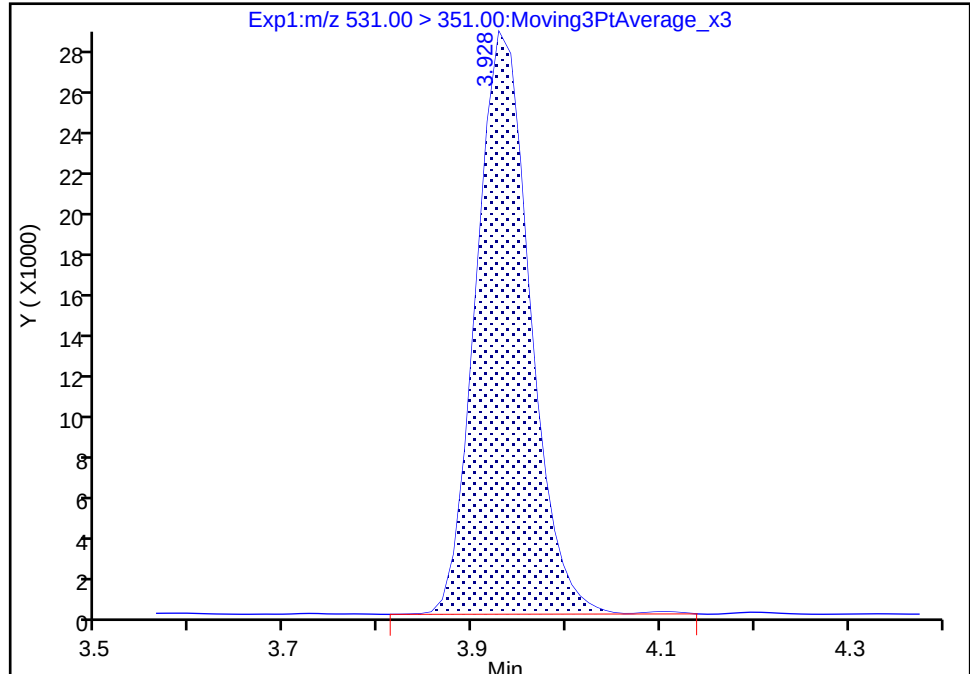
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

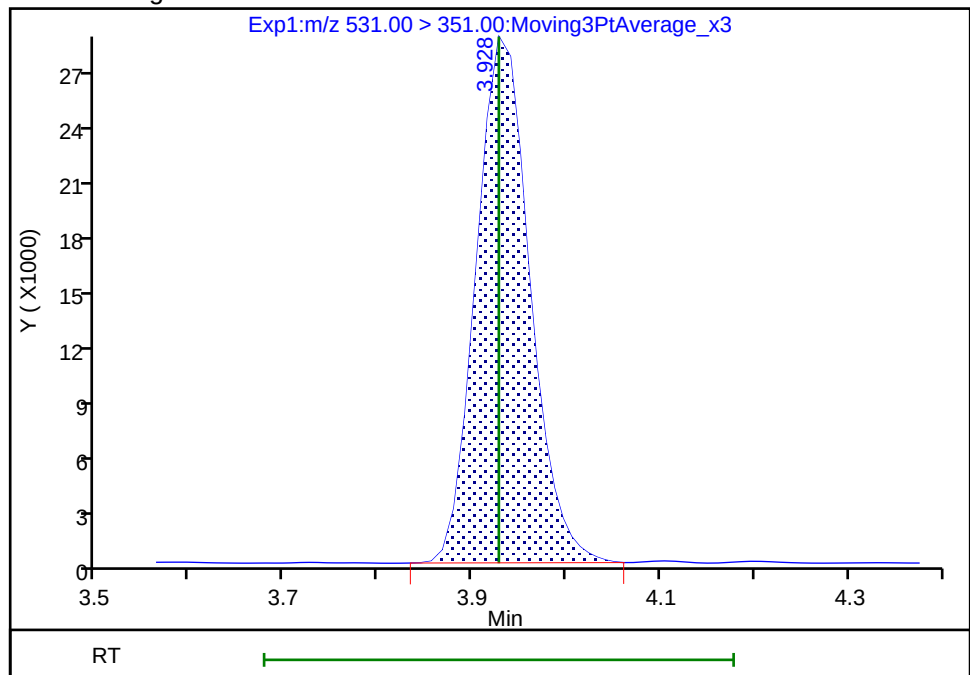
RT: 3.93
Area: 114530
Amount: 0.046600
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 114059
Amount: 0.049374
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

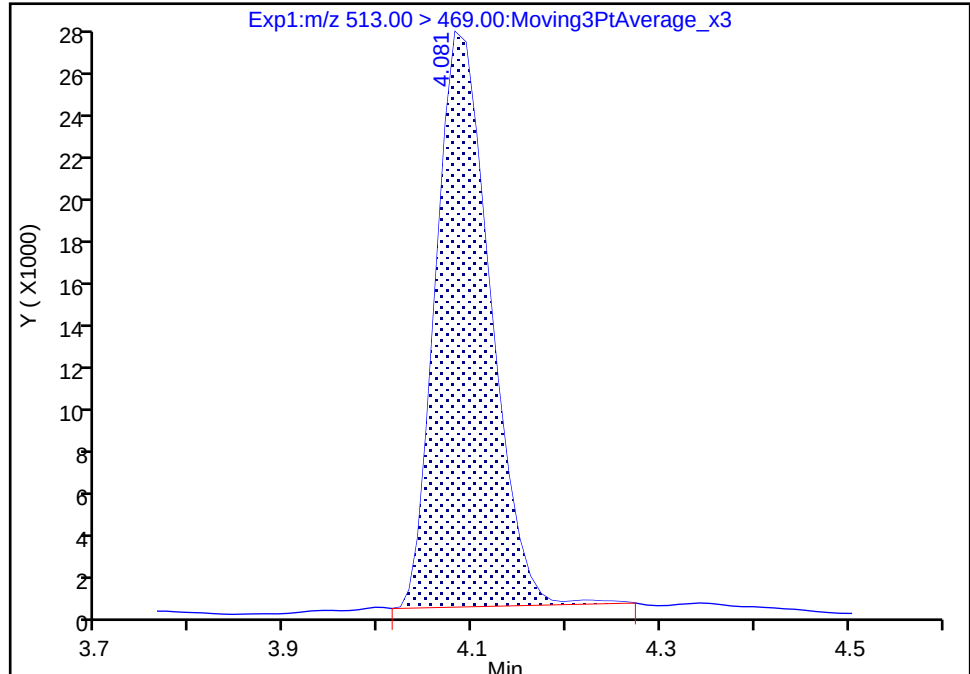
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

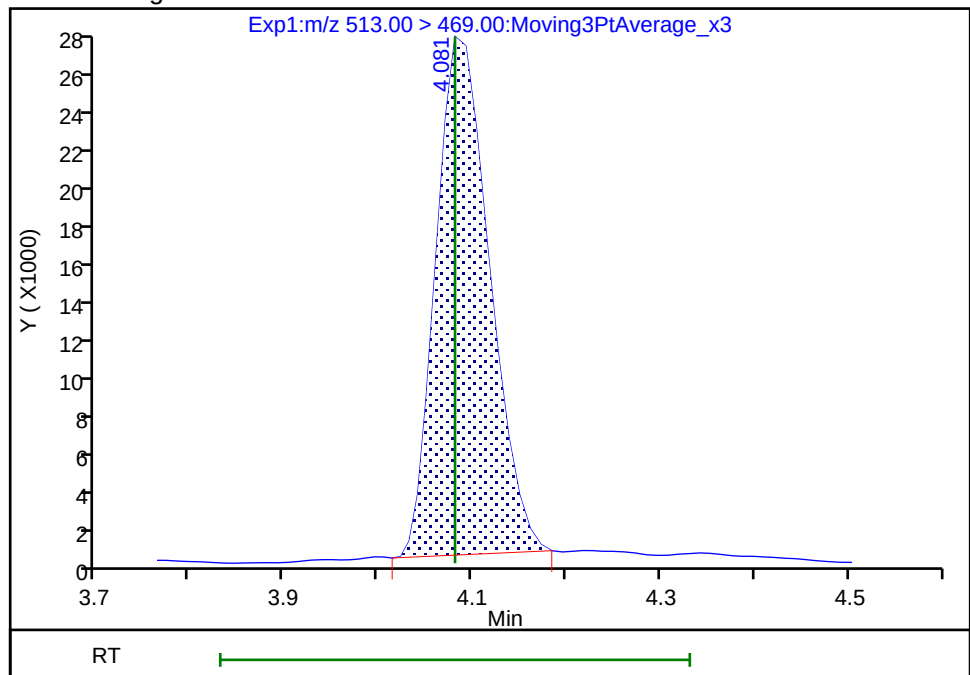
RT: 4.08
Area: 107153
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 105421
Amount: 0.053763
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:46:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

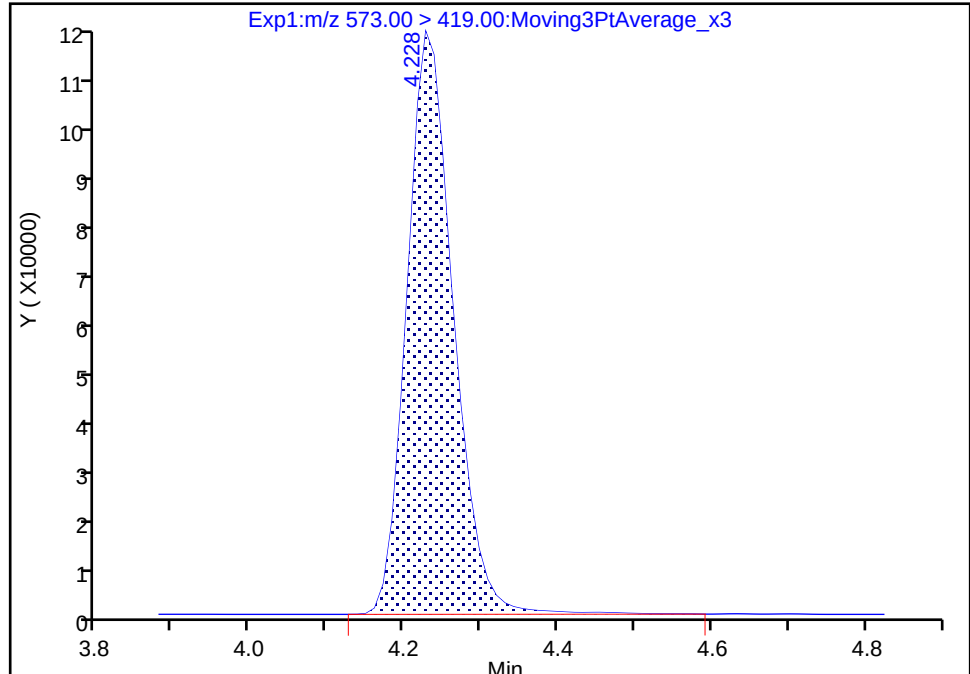
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

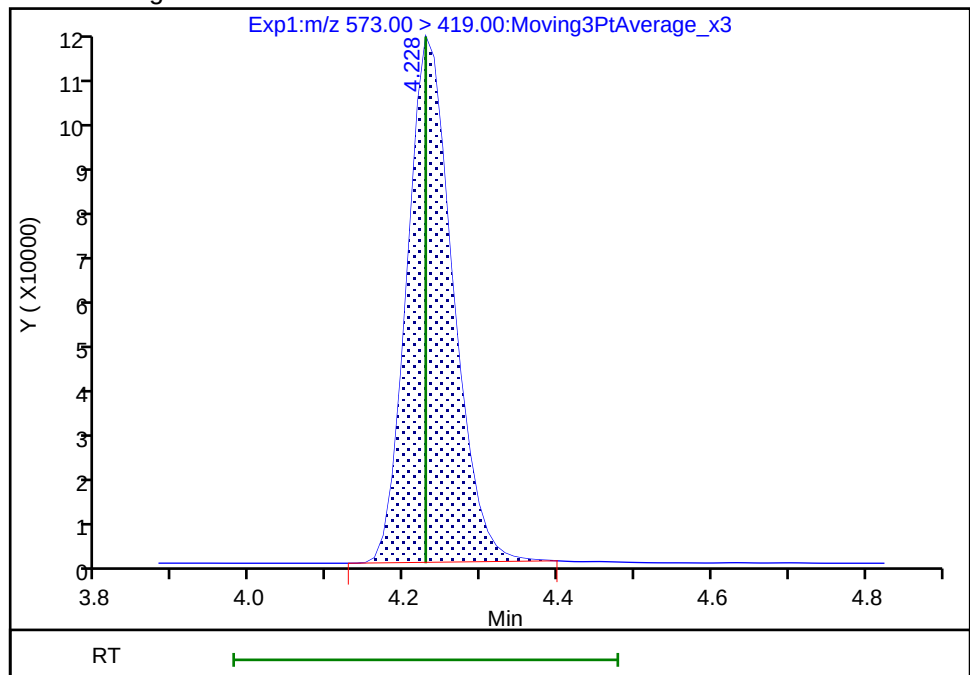
RT: 4.23
Area: 474177
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 467975
Amount: 1.245981
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

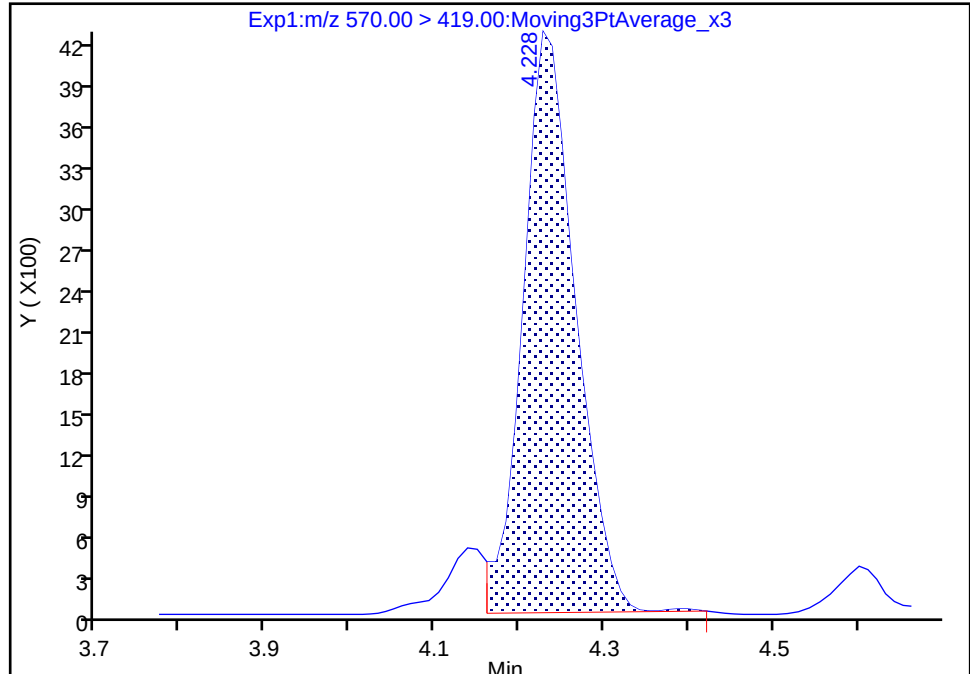
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

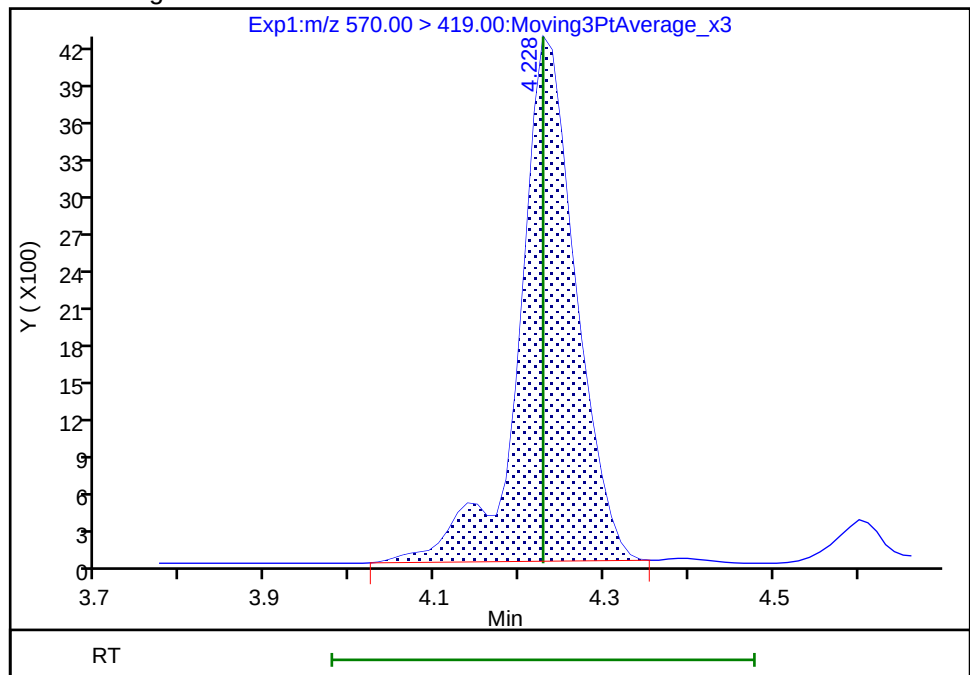
RT: 4.23
Area: 18117
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 19570
Amount: 0.049139
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

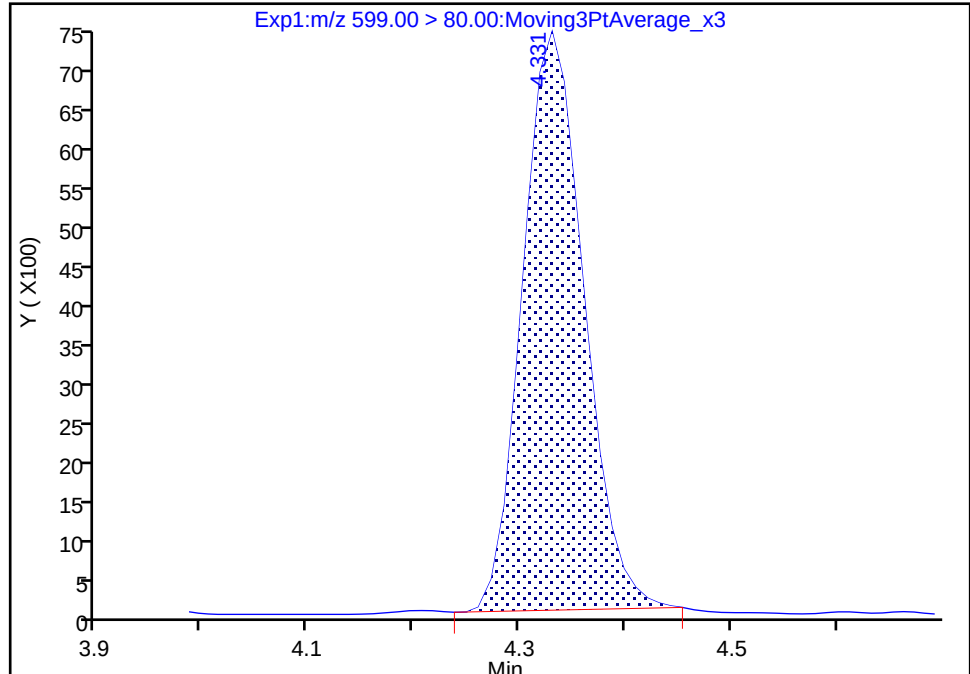
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

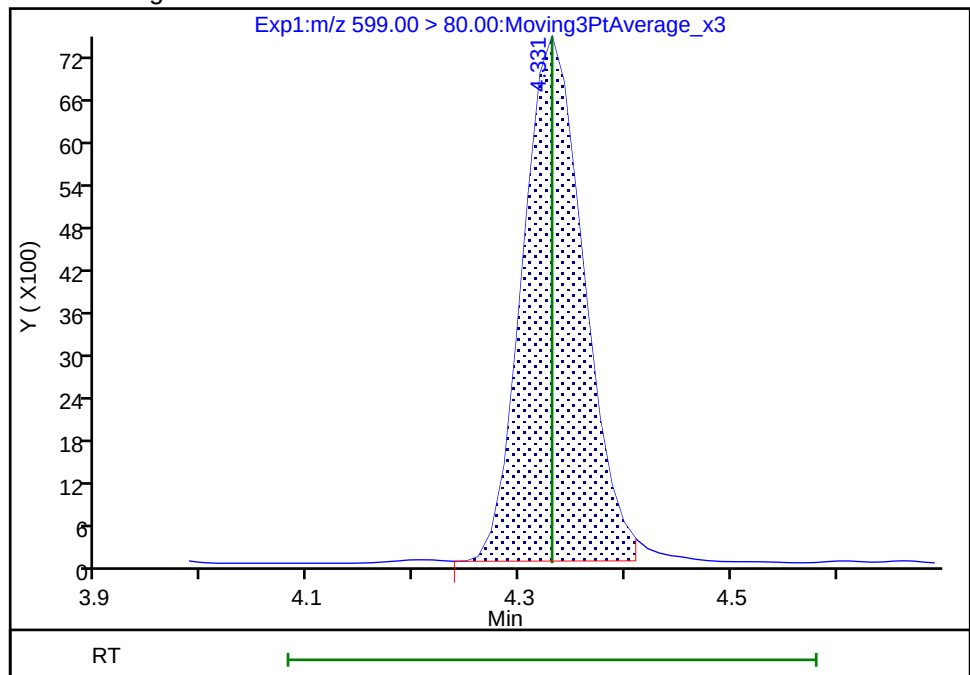
RT: 4.33
Area: 29832
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 29817
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

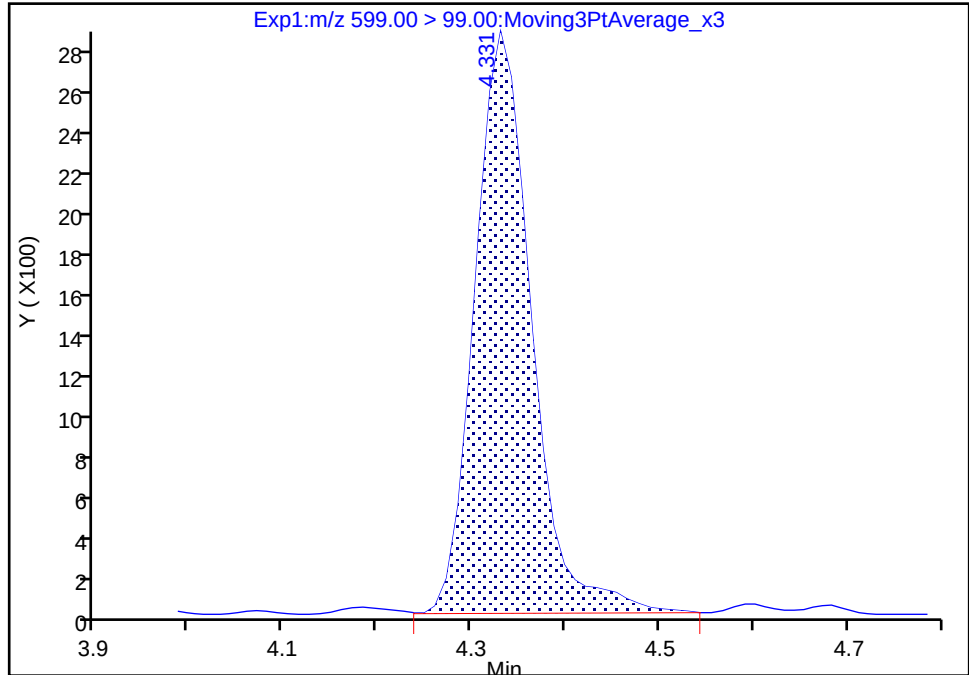
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

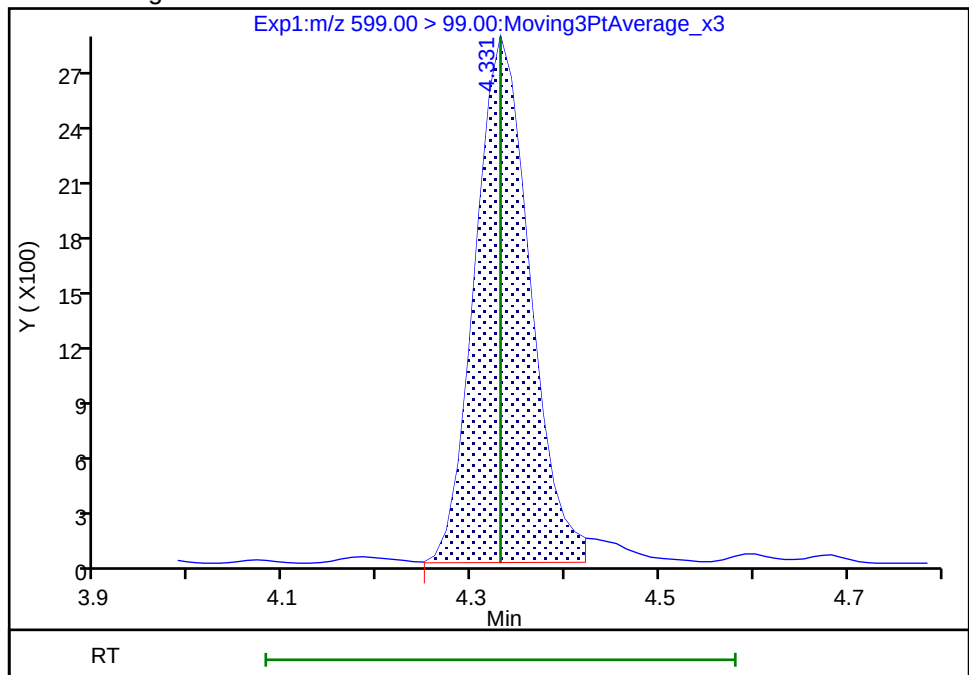
RT: 4.33
Area: 11882
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 11494
Amount: 0.049707
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 279 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

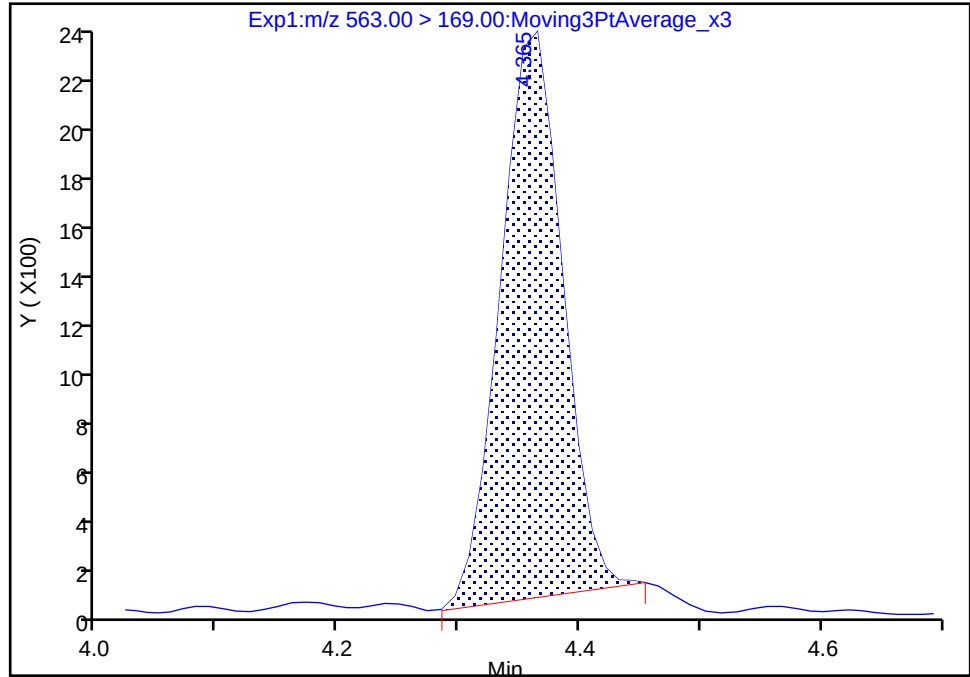
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

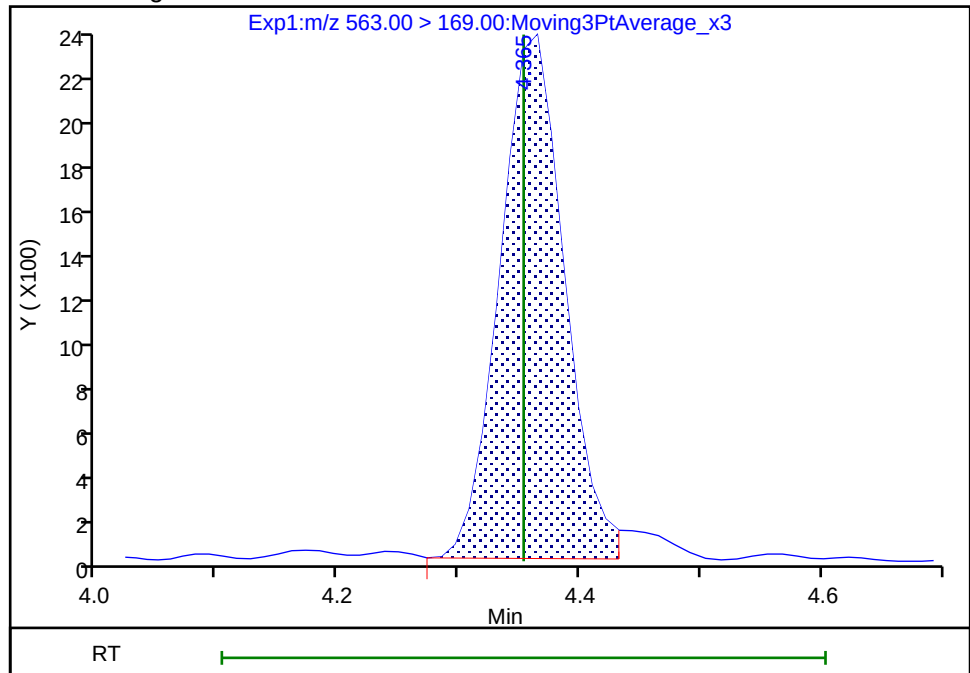
RT: 4.36
Area: 8199
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 8638
Amount: 0.051917
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:47:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

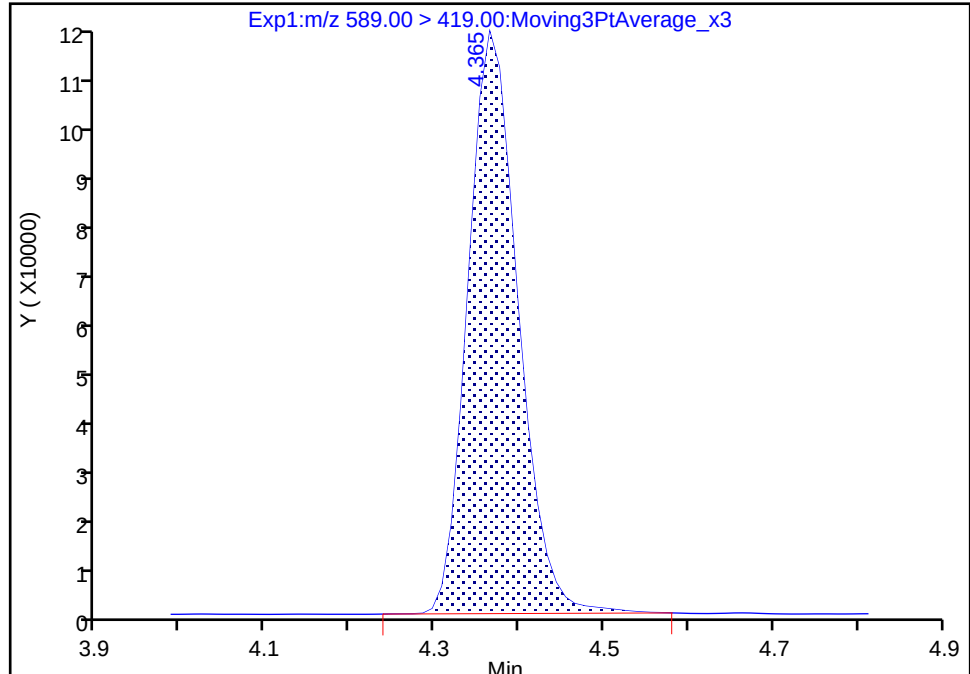
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

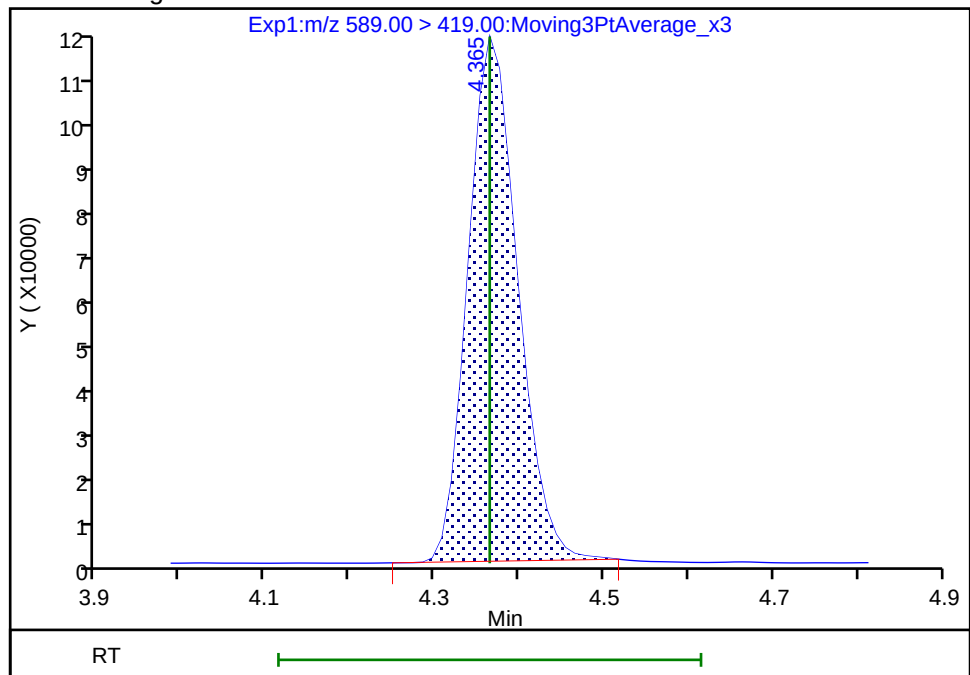
RT: 4.36
Area: 459600
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 453643
Amount: 1.226647
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

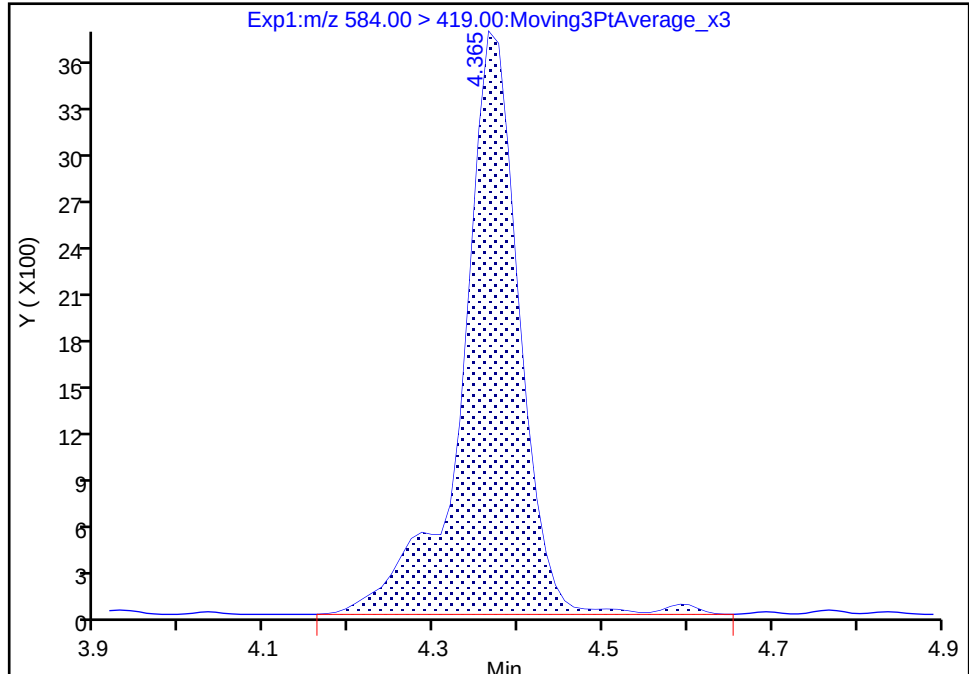
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

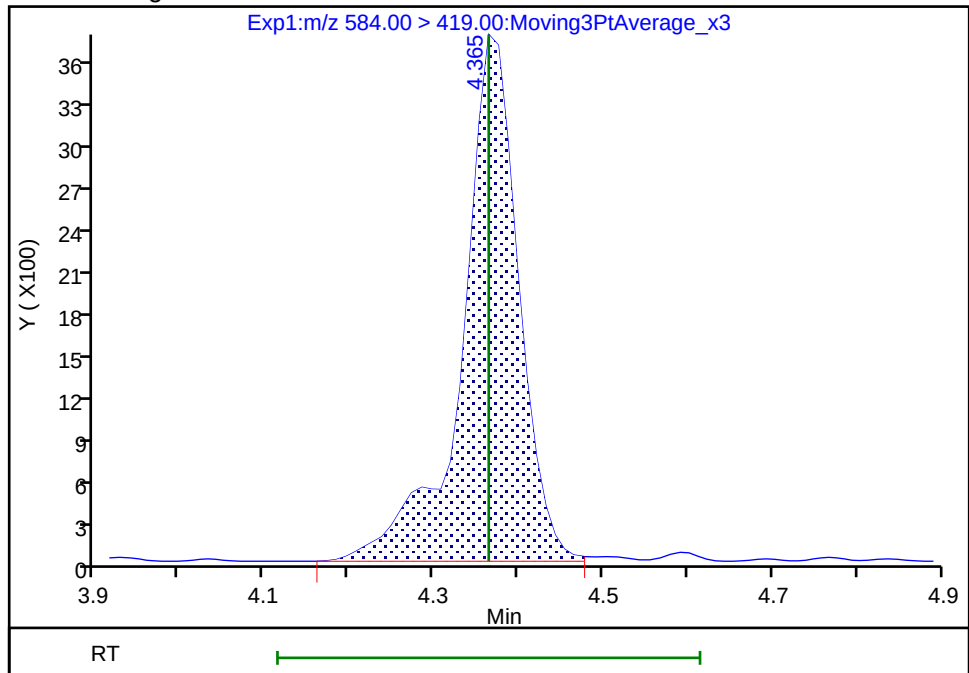
RT: 4.36
Area: 17811
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 17526
Amount: 0.053943
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

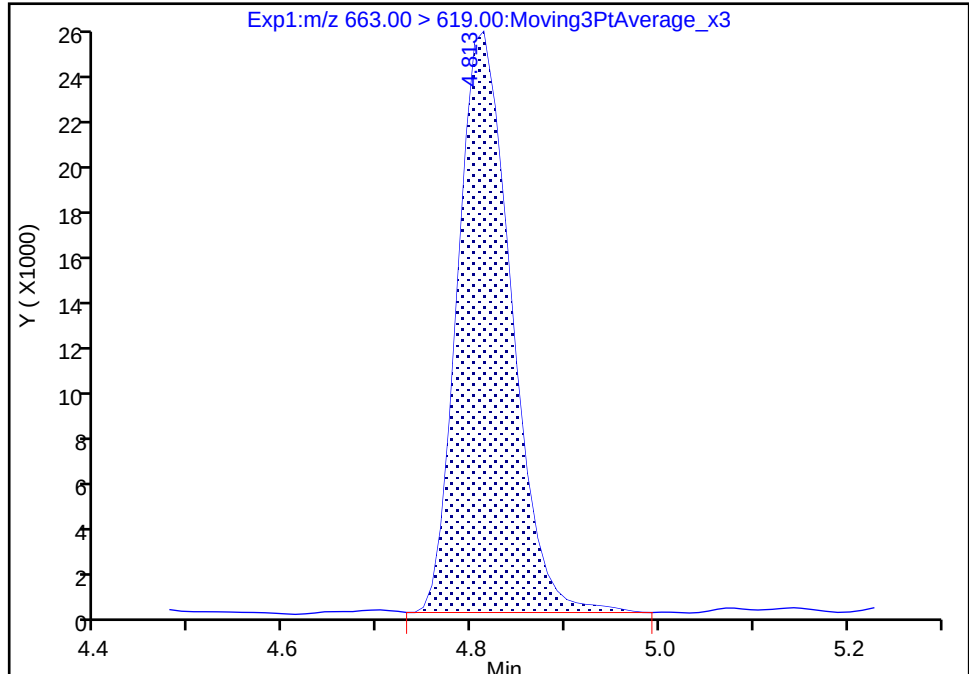
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

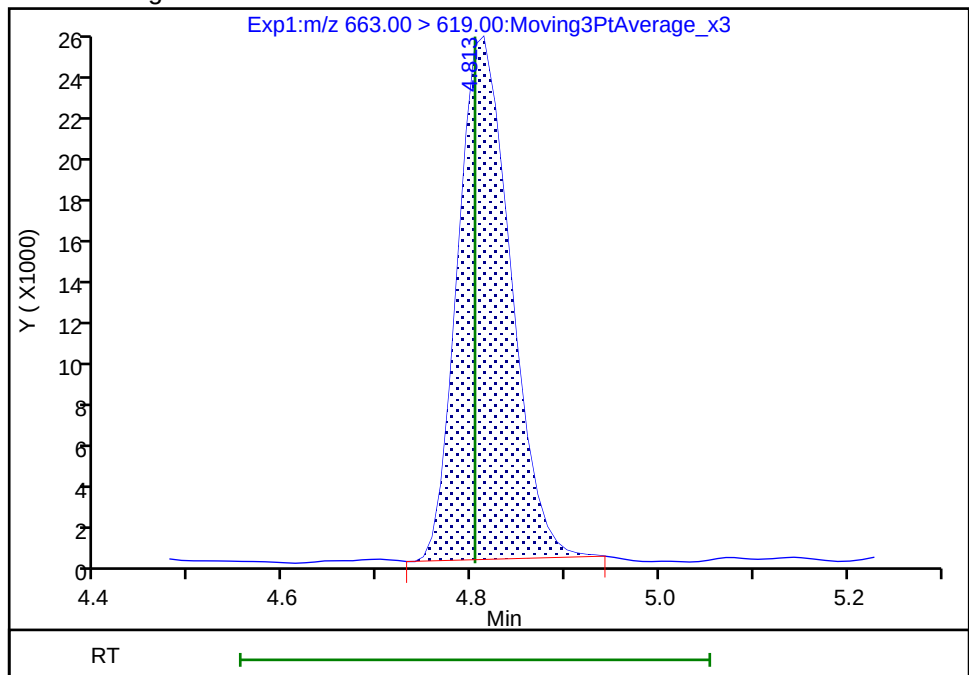
RT: 4.81
Area: 96503
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 94610
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

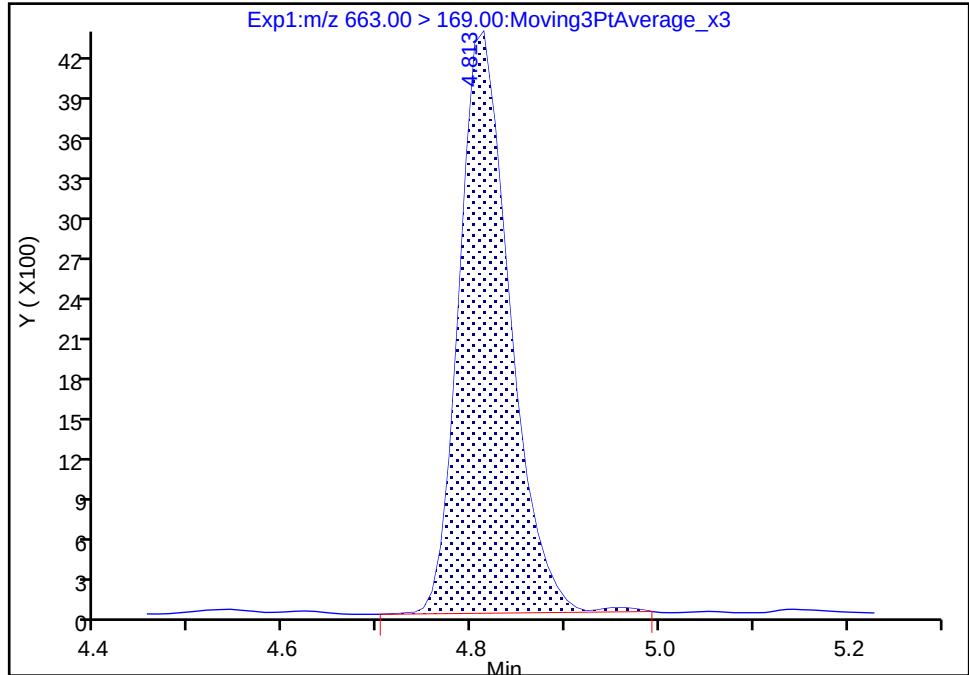
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

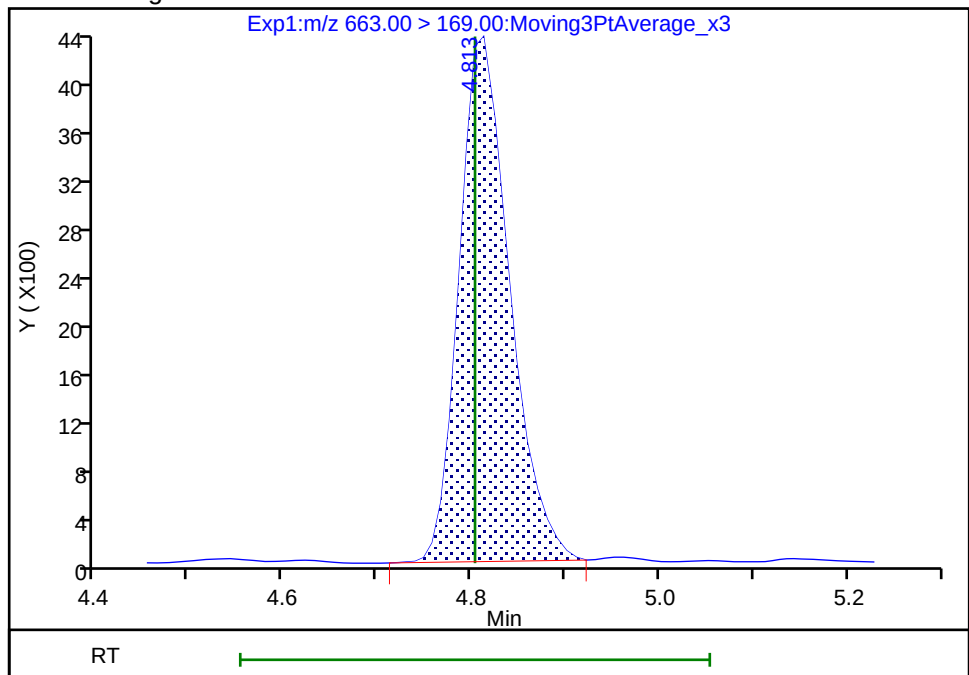
RT: 4.81
Area: 16454
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 16297
Amount: 0.053532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 284 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

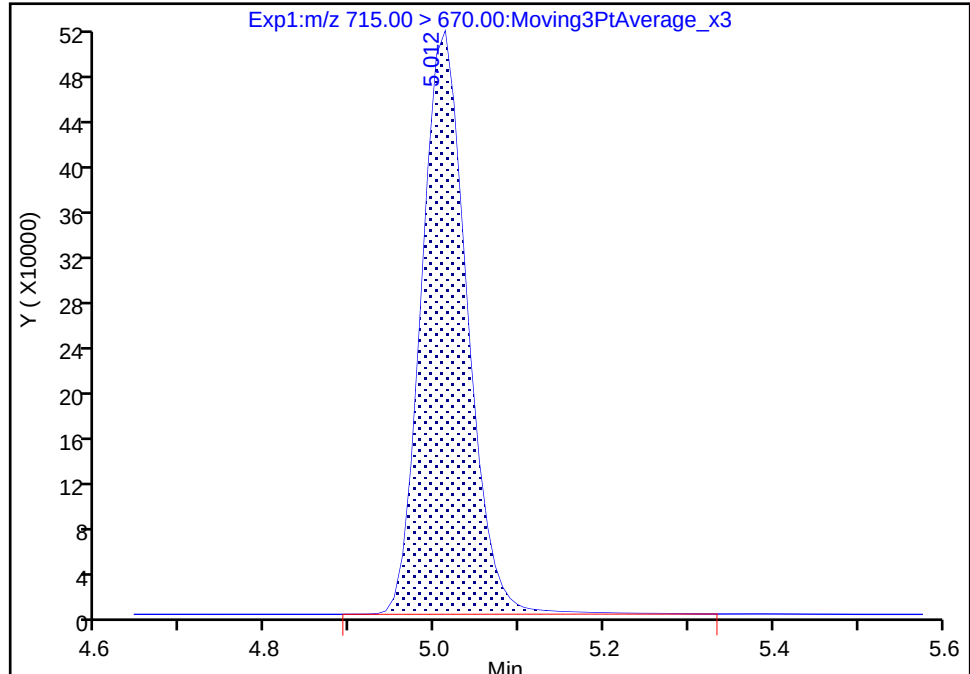
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

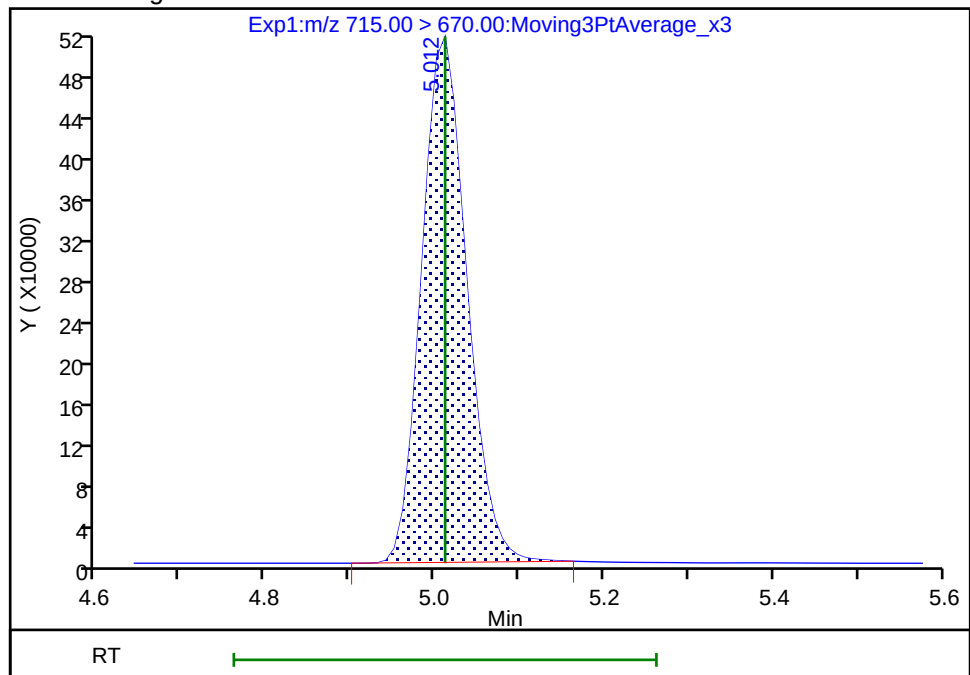
RT: 5.01
Area: 1903053
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1883348
Amount: 1.265294
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

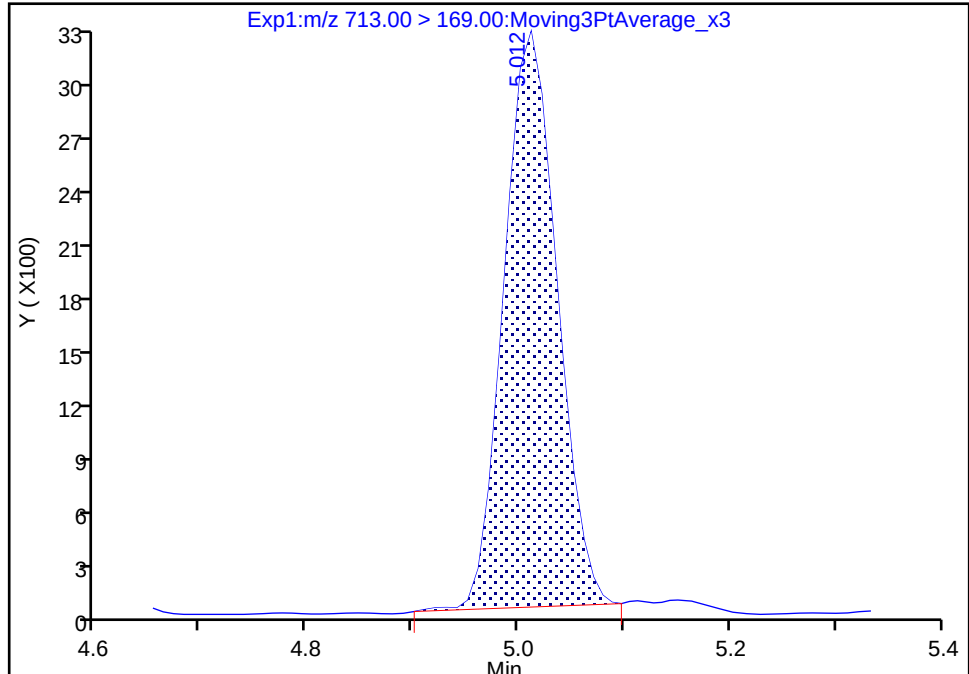
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL05.d
Injection Date: 18-Nov-2022 14:29:54 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

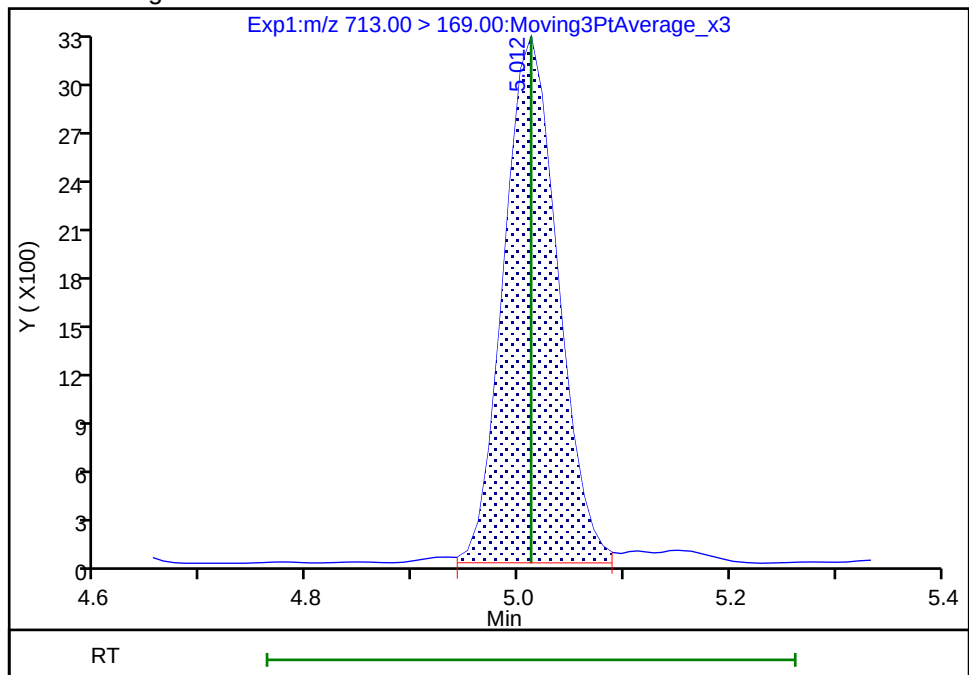
RT: 5.01
Area: 11187
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 11500
Amount: 0.055753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:48:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Nov-2022 14:38:04 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:28 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 14:58:14

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 2.076 2.076 0.0 0.602 2583086 1.21 96.9 9408

2 Perfluorobutanoic acid

212.90 > 169.00 2.076 2.076 0.0 1.000 236091 0.1108 111 21.0 M

D 3 13C5 PFPeA

267.90 > 223.00 2.386 2.387 -0.001 0.692 1926794 1.19 94.9 3850

4 Perfluoropentanoic acid

262.90 > 219.00 2.386 2.387 -0.001 1.000 187282 0.1115 111 4.9 M

D 47 13C3 PFBS

301.90 > 80.00 2.400 2.400 0.0 0.696 1974243 1.12 96.2 328948

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.400 2.400 0.0 1.000 183390 0.0944 Target=2.14 107 309

298.90 > 99.00 2.400 2.400 0.0 1.000 85972 2.13(1.07-3.21) 107 70.2

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.689 2.689 0.0 1.000 45908 0.0984 105 573

D 60 M2-4:2 FTS

329.00 > 81.00 2.689 2.689 0.0 0.780 176875 1.13 97.1 179

D 7 13C2 PFHxA

315.00 > 270.00 2.725 2.725 0.0 0.791 2057289 1.21 96.7 7228

6 Perfluorohexanoic acid

313.00 > 269.00 2.725 2.725 0.0 1.000 191103 0.1066 Target=13.44 107 38.9 M

313.00 > 119.00 2.737 2.725 0.012 1.004 15417 12.40(6.72-20.15) 107 31.5

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.737 2.737 0.0 0.887 163879 0.0962 Target=2.98 103 479

349.00 > 99.00 2.737 2.737 0.0 0.887 57172 2.87(1.49-4.47) 103 155

D 64 13C3 HFPO-DA

287.00 > 169.00 2.835 2.835 0.0 0.822 352715 1.17 93.9 2364

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	32429	0.1088		109	149	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1507942	1.17		99.2	4316	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.000	130263	0.0905	Target=3.57	99.5	182	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	38491		3.38(1.78-5.35)	99.5	56.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.099	-0.001	0.899	2087570	1.19		95.4	3803	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.000	194803	0.1071	Target=3.93	107	42.8	
363.00 > 169.00	3.098	3.099	-0.001	1.000	47936		4.06(1.96-5.89)	107	94.2	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	483450	0.1038	Target=3.08	110	566	
377.00 > 85.00	3.132	3.132	0.0	0.832	147632		3.27(1.54-4.62)	110	242	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	254748	1.18		99.5	767	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	45963	0.0896		94.5	167	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.438	3.439	-0.001	0.914	121399	0.1028	Target=5.16	108	441	M
449.00 > 99.00	3.438	3.439	-0.001	0.914	23934		5.07(2.58-7.74)	108	110	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2369406	1.20		96.3	3967	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2377284	1.25			4122	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.446	3.448	-0.002	1.000	206480	0.1019	Target=2.82	102	15.9	
413.00 > 169.00	3.446	3.448	-0.002	1.000	71984		2.87(1.41-4.23)	102	117	M
D 18 13C4 PFOS										
503.00 > 80.00	3.762	3.764	-0.002	1.092	1010315	1.16		96.9	3177	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.762	3.764	-0.002	1.000	105528	0.1026	Target=5.01	111	19.8	M
499.00 > 99.00	3.762	3.764	-0.002	1.000	20524		5.14(2.50-7.51)	111	18.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.781	3.783	-0.002	1.097	2362013	1.23		98.8	5871	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.781	3.783	-0.002	1.000	201460	0.1028	Target=8.49	103	42.2	M
463.00 > 169.00	3.781	3.783	-0.002	1.000	23149		8.70(4.25-12.74)	103	158	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	230911	0.0979		105	881	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	79193	0.1020	Target=2.60	106	665	
549.00 > 99.00	4.060	4.050	0.010	1.079	30661		2.58(1.30-3.90)	106	228	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2439344	1.25		100	2392	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	4.081	4.081	0.0	1.000	217999	0.1030	Target=10.03	103	91.5	
513.00 > 169.00	4.081	4.081	0.0	1.000	22750		9.58(5.02-15.05)	103	49.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.187	307241	1.16		97.3	979	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	41049	0.0989		103	314	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	172977	0.1090		109	454	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1899612	1.19		95.1	1746	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	478399	1.21		96.4	1389	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	34156	0.0921		92.1	69.3	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	60768	0.0992	Target=2.58	103	528	
599.00 > 99.00	4.319	4.331	-0.012	1.148	26777		2.27(1.29-3.86)	103	451	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	176444	0.1033	Target=10.10	103	79.0	M
563.00 > 169.00	4.353	4.353	0.0	1.000	17359		10.16(5.05-15.15)	103	193	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2119319	1.19		95.0	2896	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	-0.001	1.000	36650	0.1062		106	294	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	-0.001	1.266	481823	1.23		98.6	823	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.184	370183	0.1018		108	942	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	194829	0.1069	Target=7.41	107	14.3	M
613.00 > 169.00	4.591	4.591	0.0	1.000	26866		7.25(3.70-11.11)	107	229	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2150435	1.18		94.6	2247	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	24005	0.0963		99.9	288	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	26552	0.1024	Target=0.51	106	356	M
699.00 > 99.00	4.776	4.776	0.0	1.269	51408		0.52(0.25-0.76)	106	502	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.803	4.804	-0.001	1.046	189059	0.1085	Target=5.40	108	14.6	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	34380		5.50(2.70-8.10)	108	228	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	21567	0.1016	Target=0.90	102	213	
713.00 > 219.00	5.002	5.012	-0.010	0.998	23639		0.91(0.45-1.35)	102	321	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1938056	1.23		98.6	1755	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	5.366	5.367	-0.001	1.557	2401907	1.24		98.8	4376	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.366	5.367	-0.001	1.000	206119	0.0996	Target=5.85	99.6	19.0	
813.00 > 169.00	5.366	5.367	-0.001	1.000	34091		6.05(2.93-8.78)	99.6	238	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.066	159361	0.1007	Target=6.30	101	19.9	M
913.00 > 169.00	5.722	5.722	0.0	1.066	24213		6.58(3.15-9.46)	101	250	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d

Injection Date: 18-Nov-2022 14:38:04

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

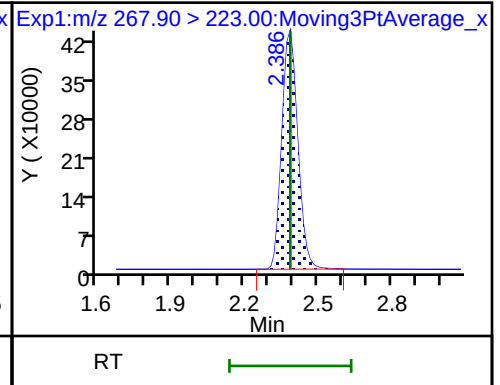
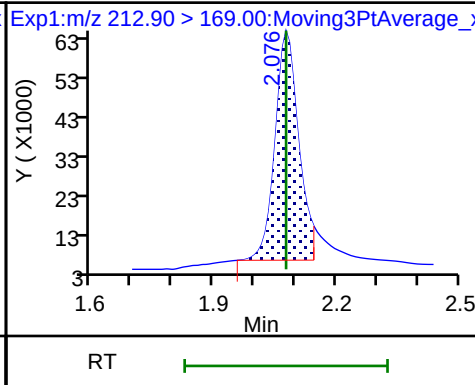
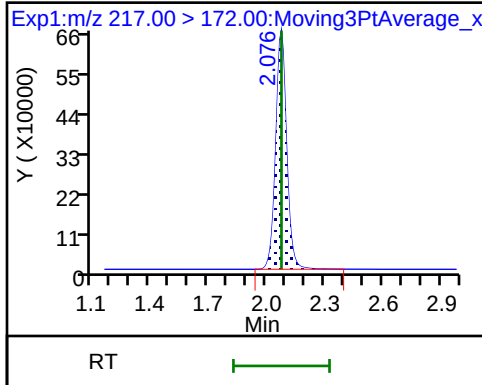
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

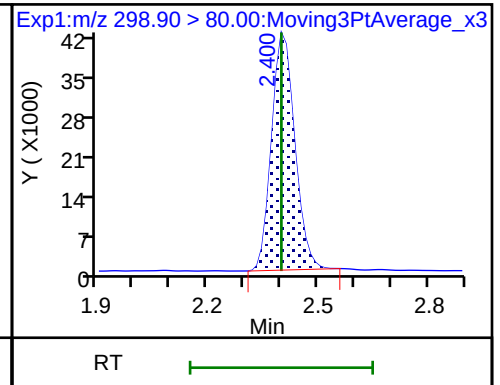
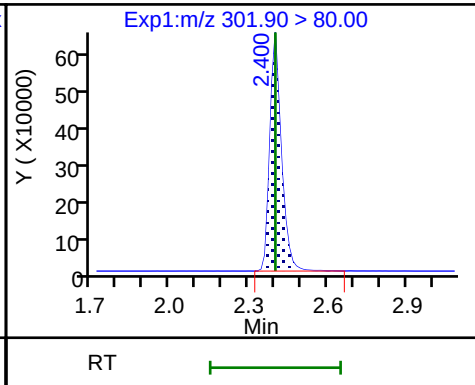
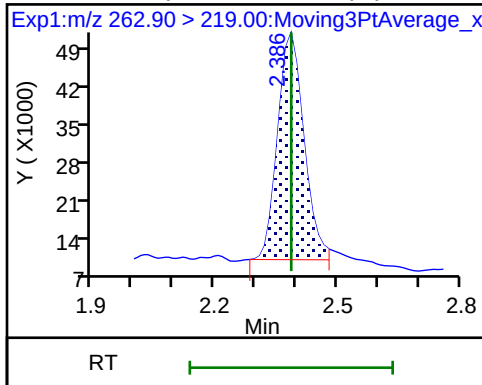
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

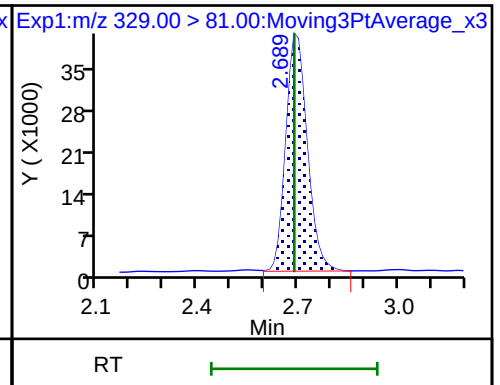
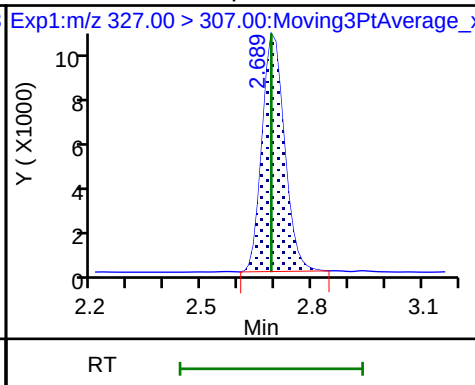
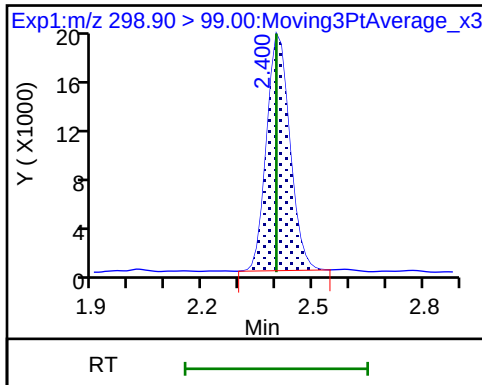
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

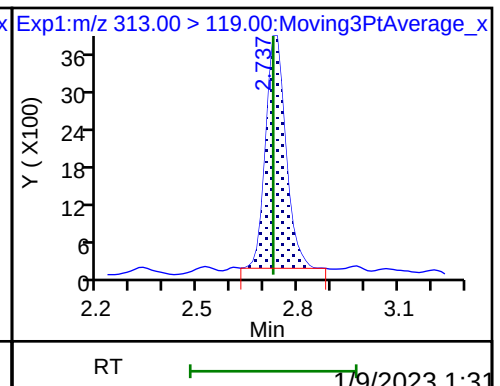
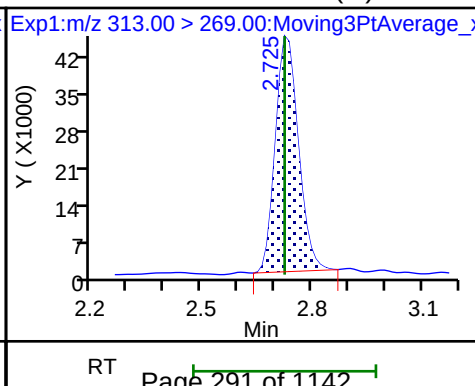
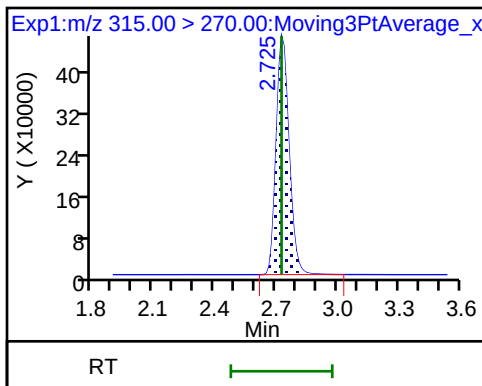
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

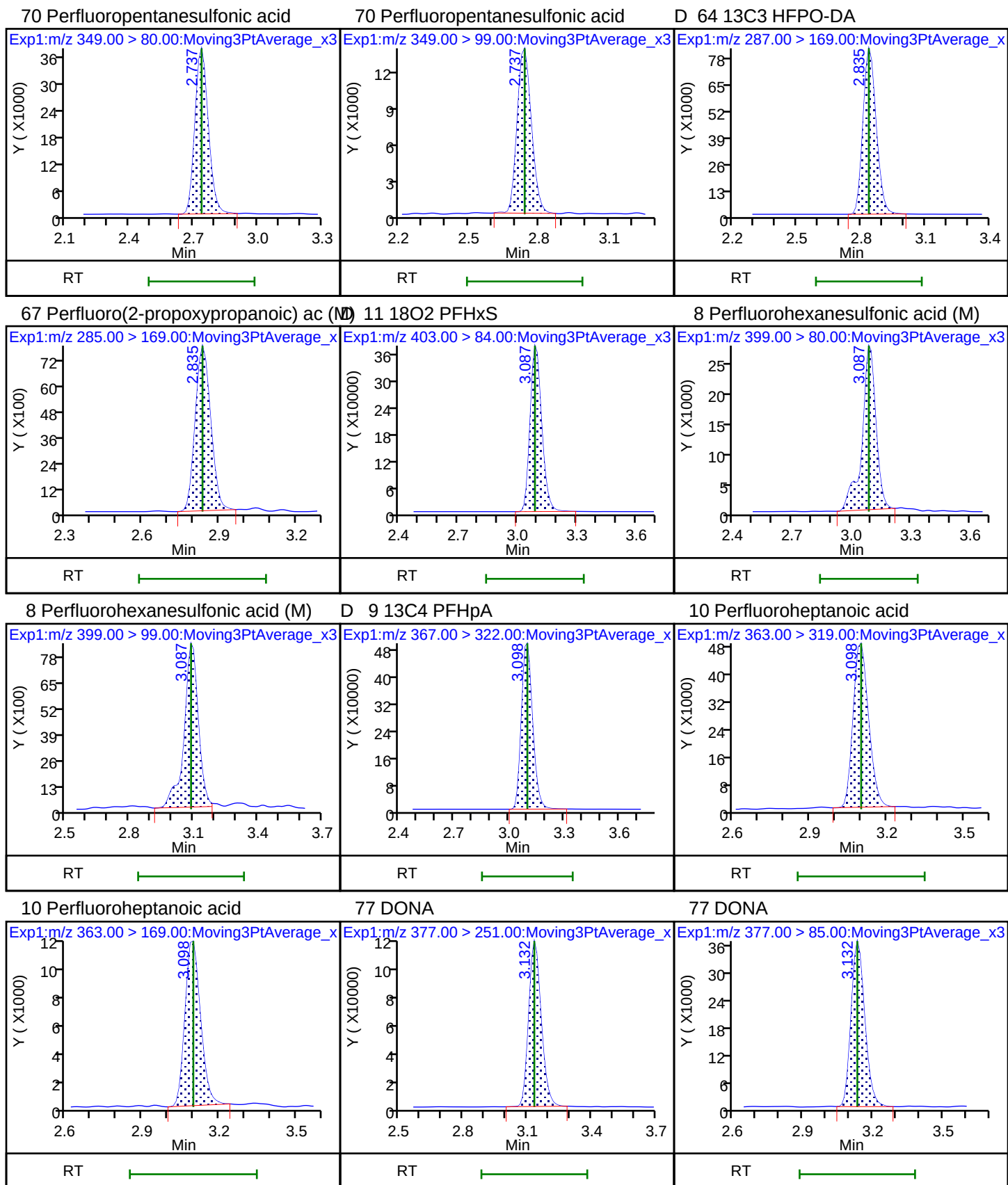


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

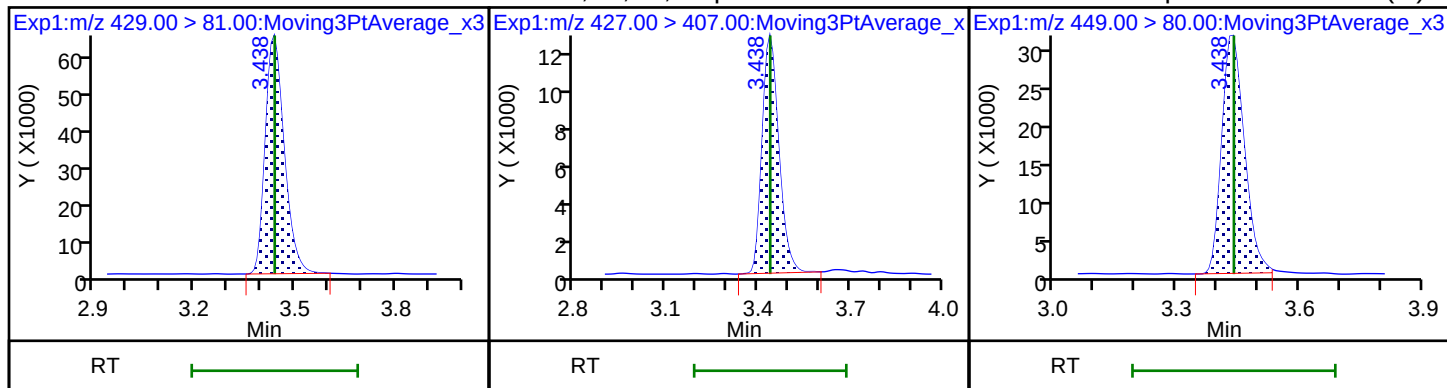




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

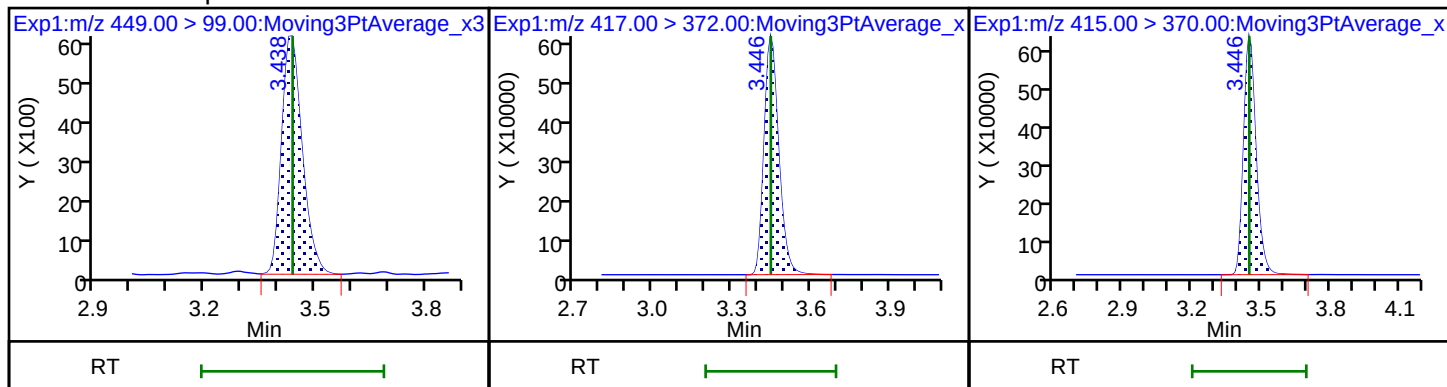
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

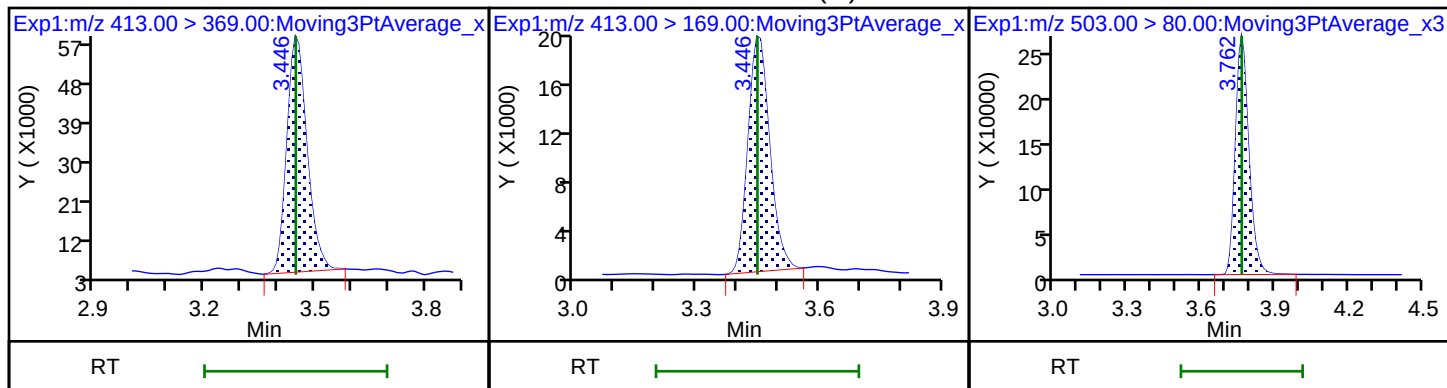
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

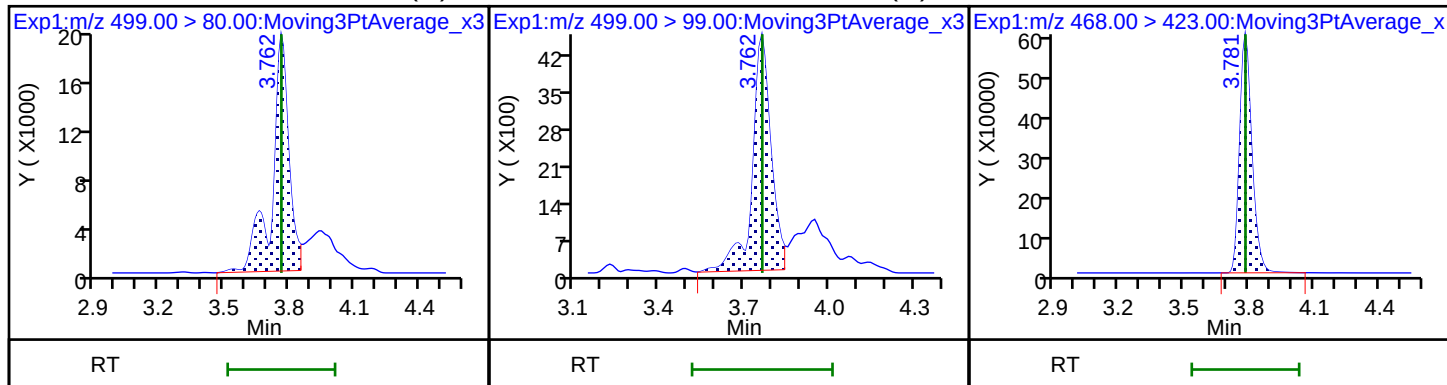
D 18 13C4 PFOS

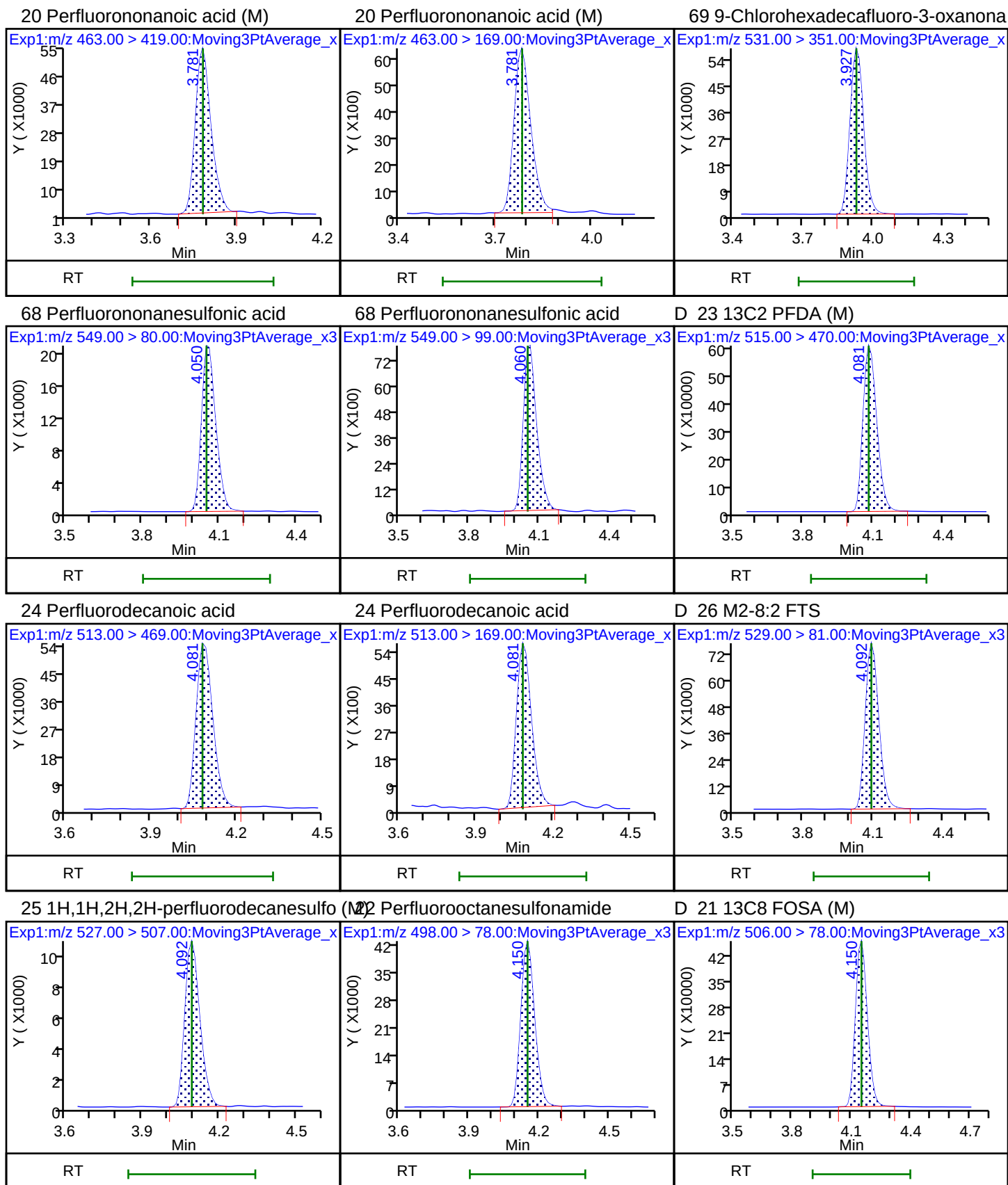


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

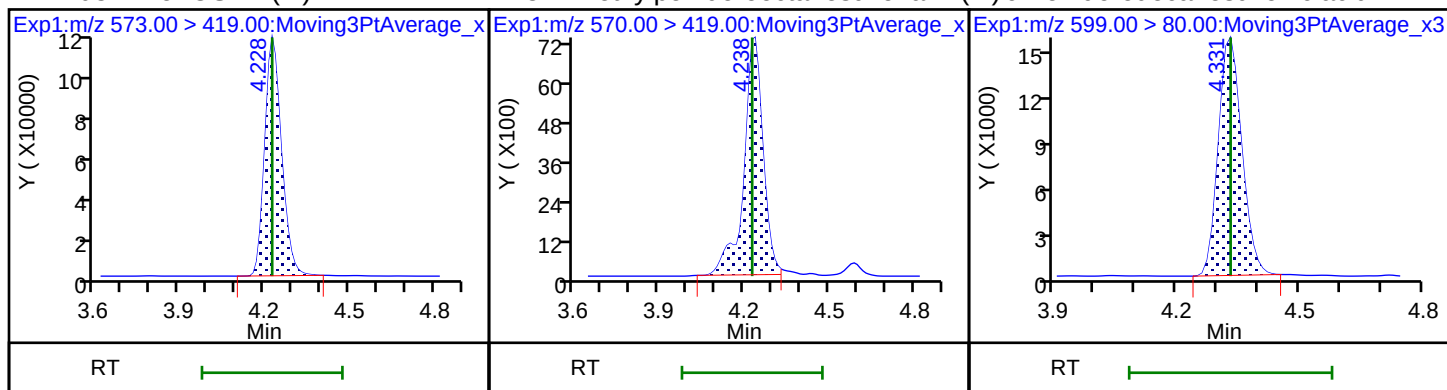




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

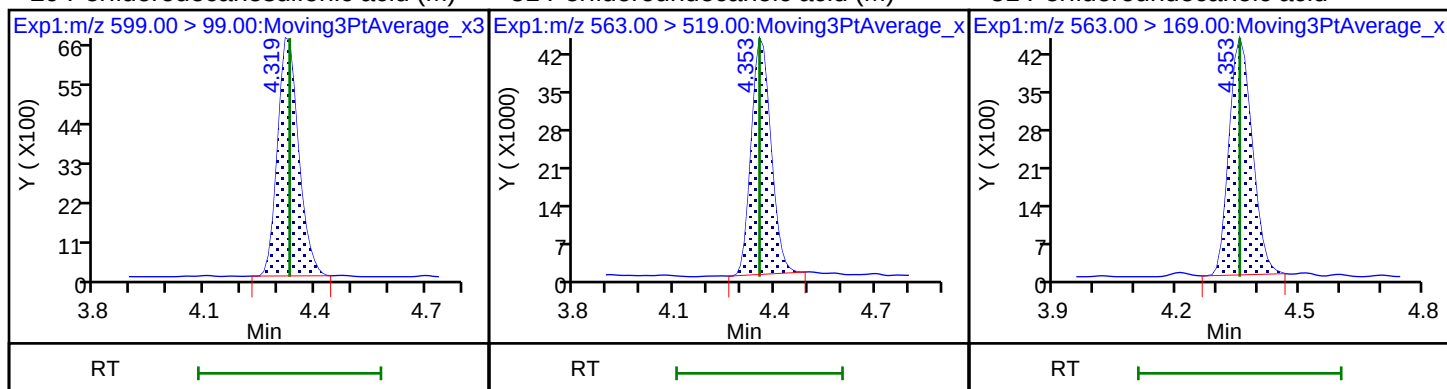
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

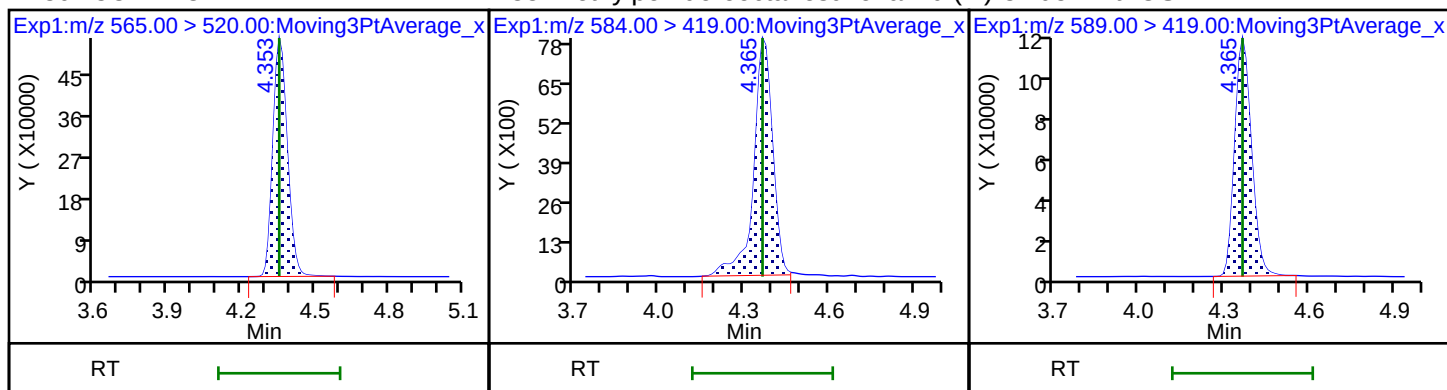
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)

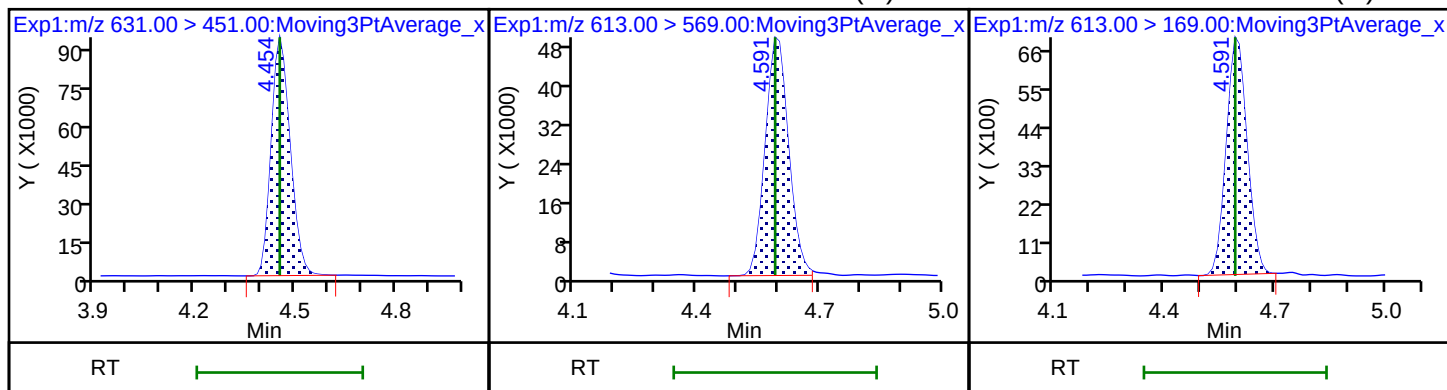
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

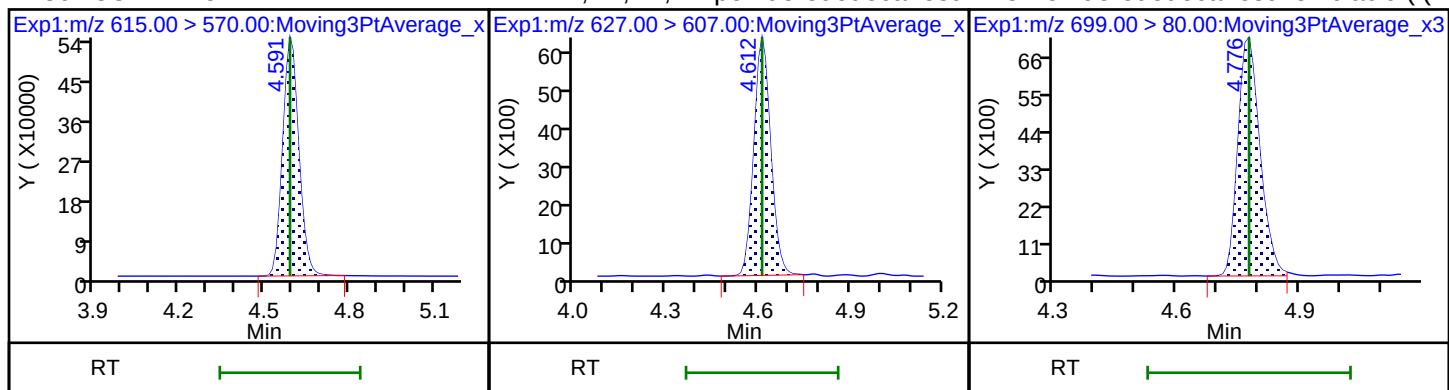
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



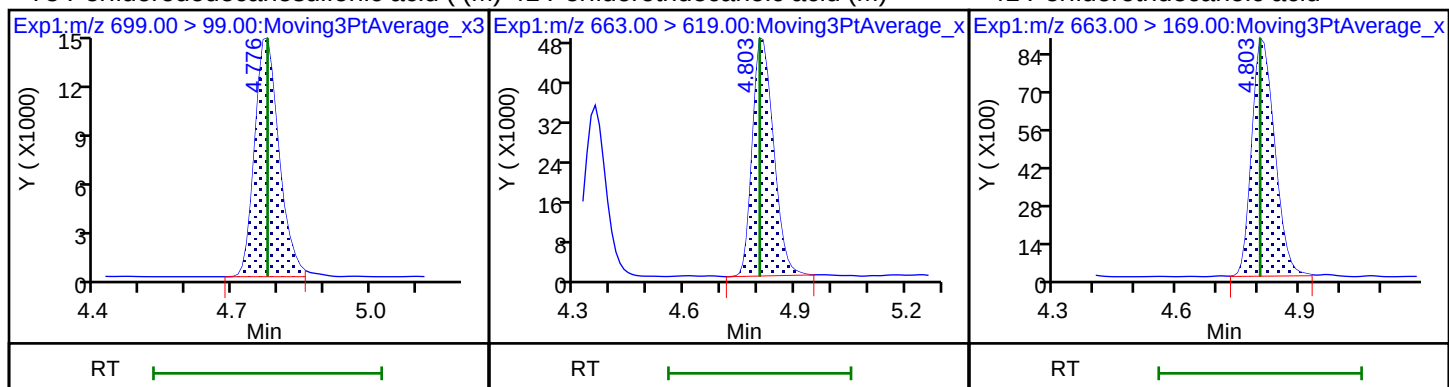
D 36 13C2 PFD0A

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

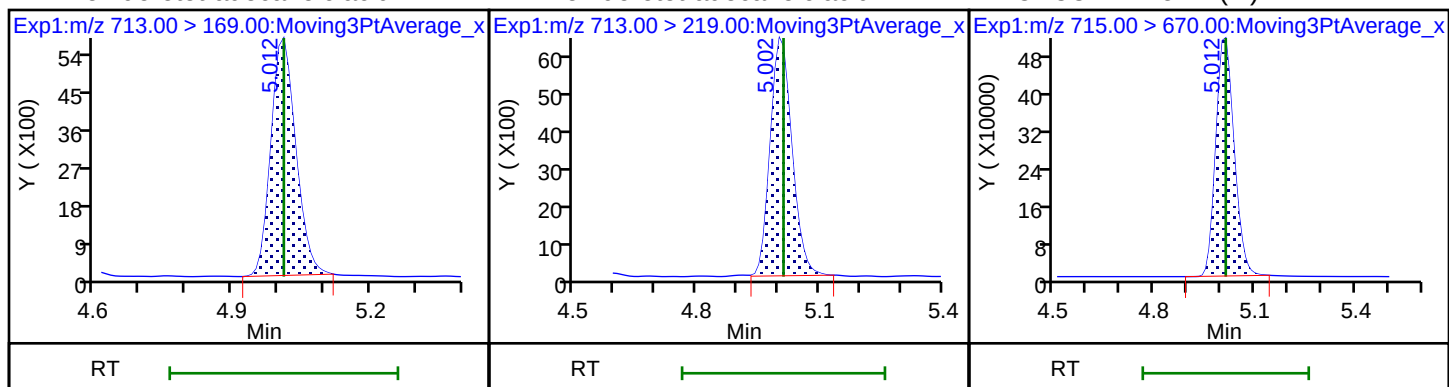
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

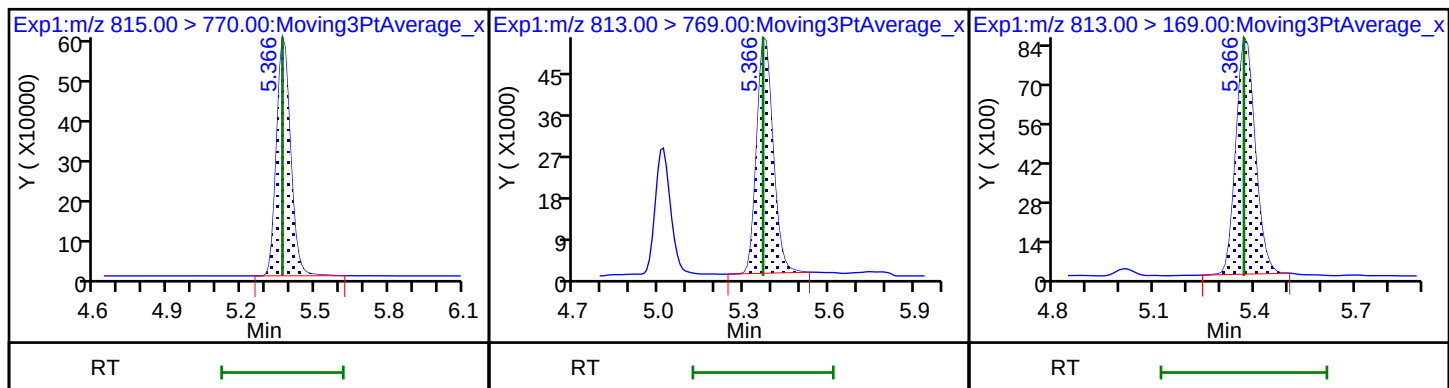
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

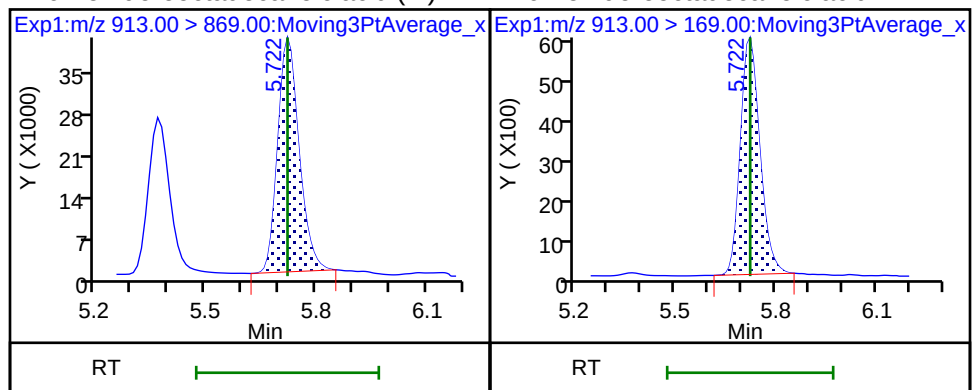
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

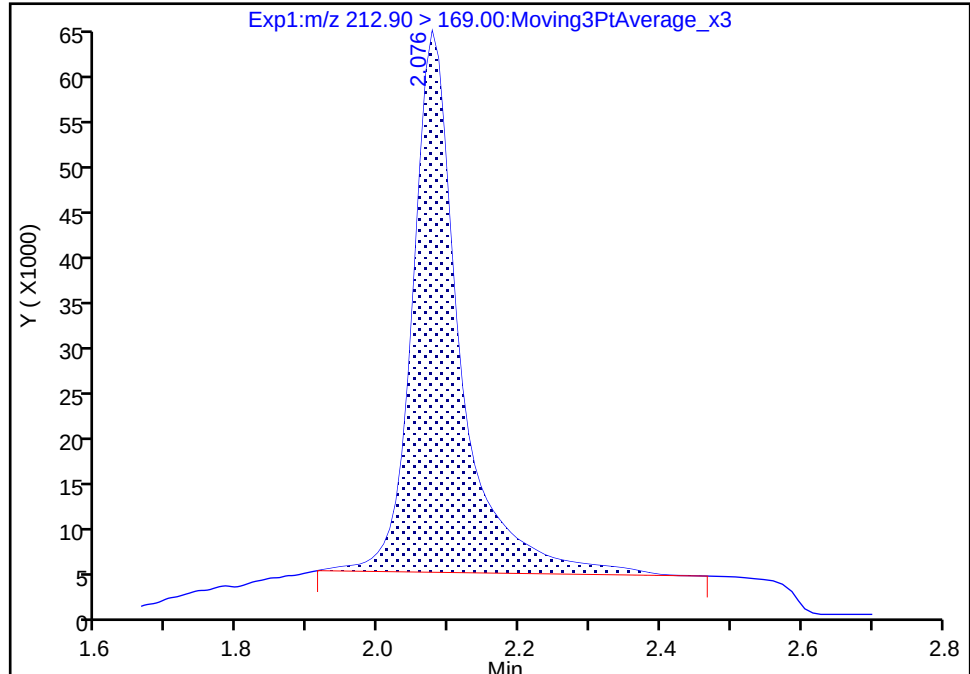
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

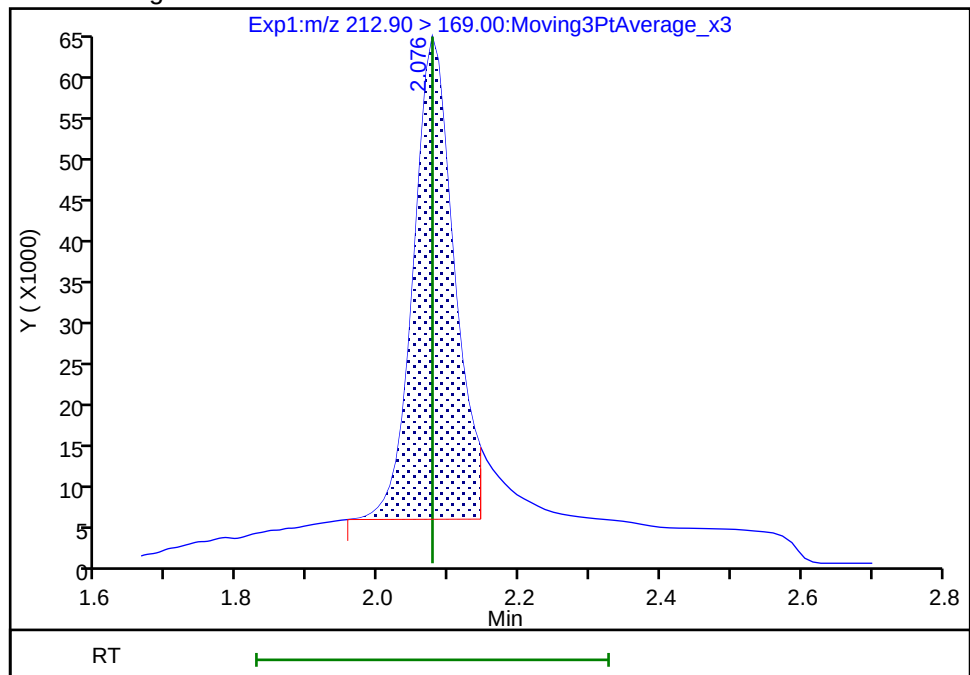
RT: 2.08
Area: 280853
Amount: 0.108572
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 236091
Amount: 0.110792
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

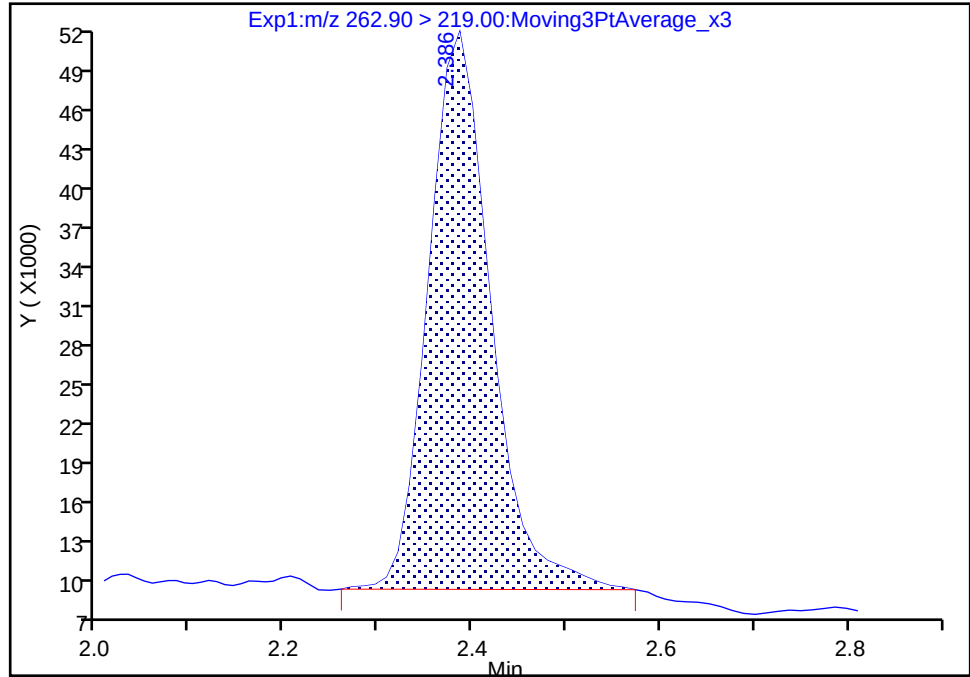
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

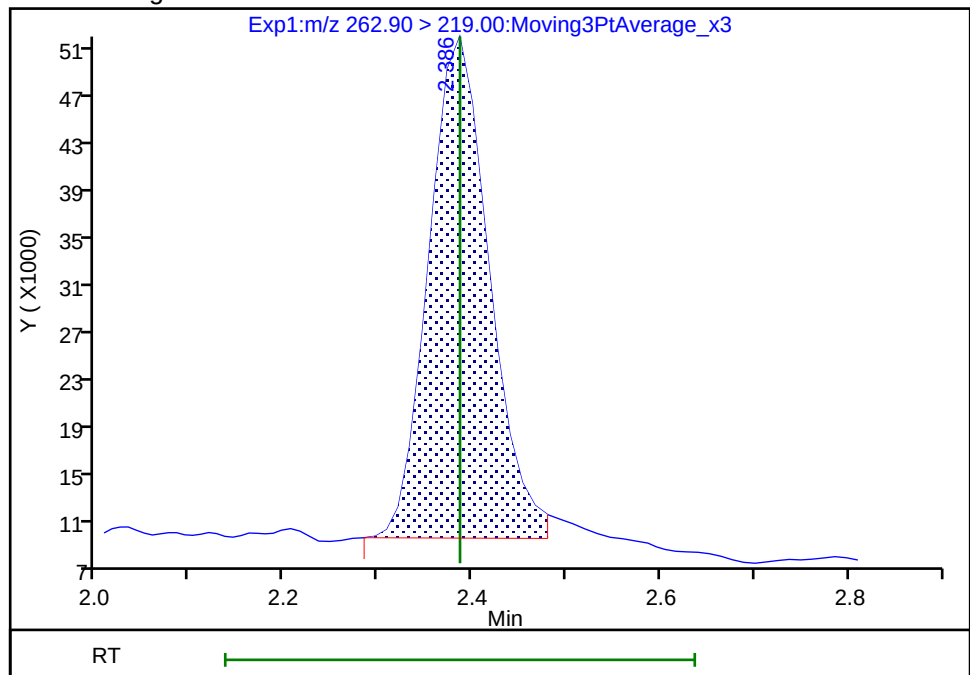
RT: 2.39
Area: 195135
Amount: 0.103655
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 187282
Amount: 0.111484
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

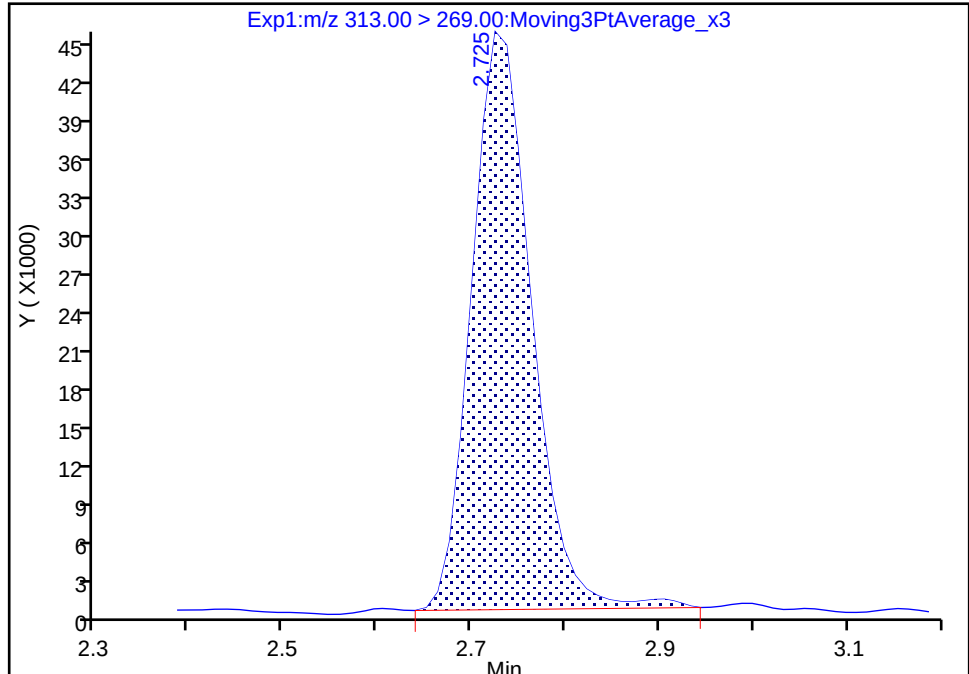
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

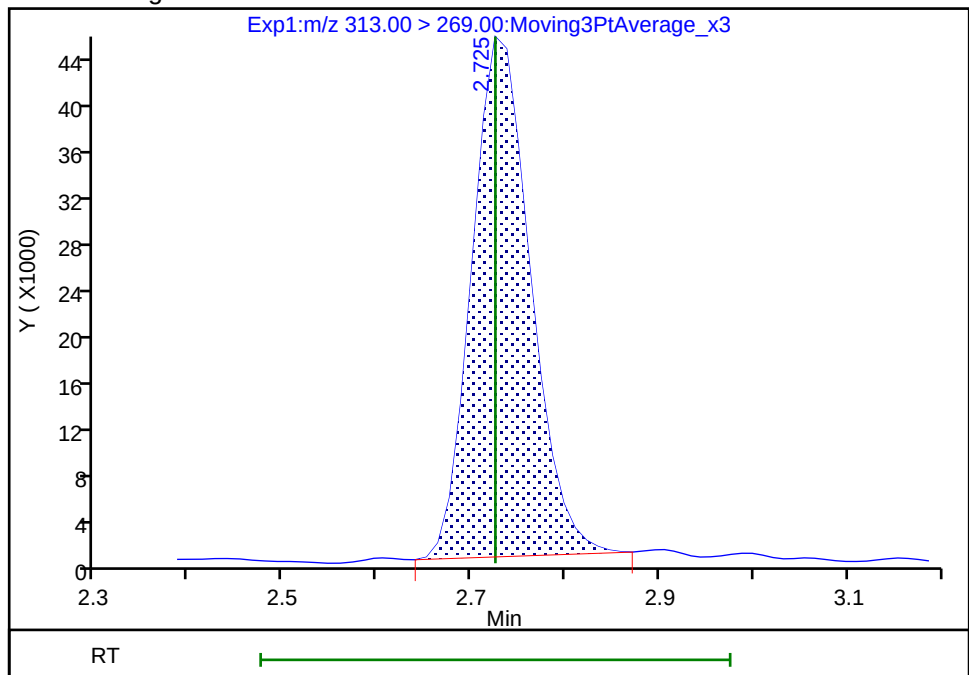
RT: 2.73
Area: 196336
Amount: 0.100921
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 191103
Amount: 0.106564
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:53:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

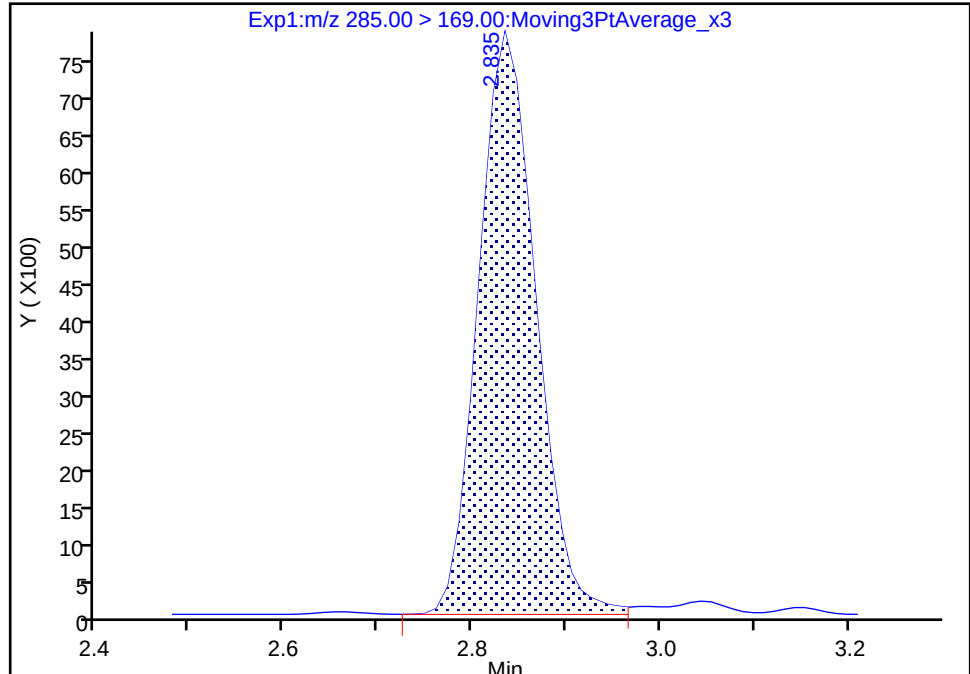
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

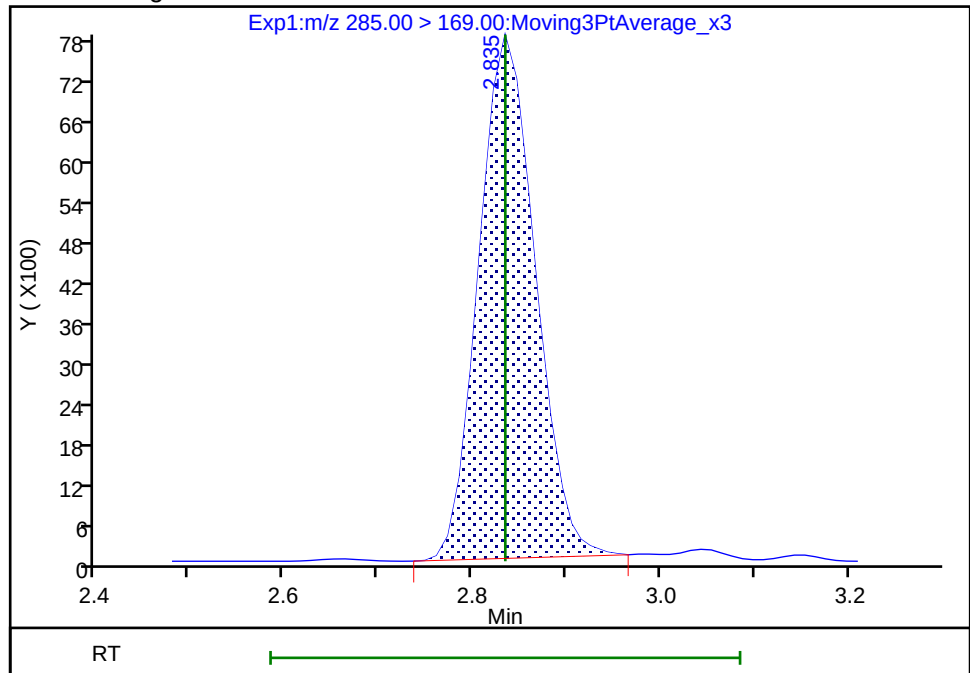
RT: 2.83
Area: 33101
Amount: 0.103414
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 32429
Amount: 0.108840
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

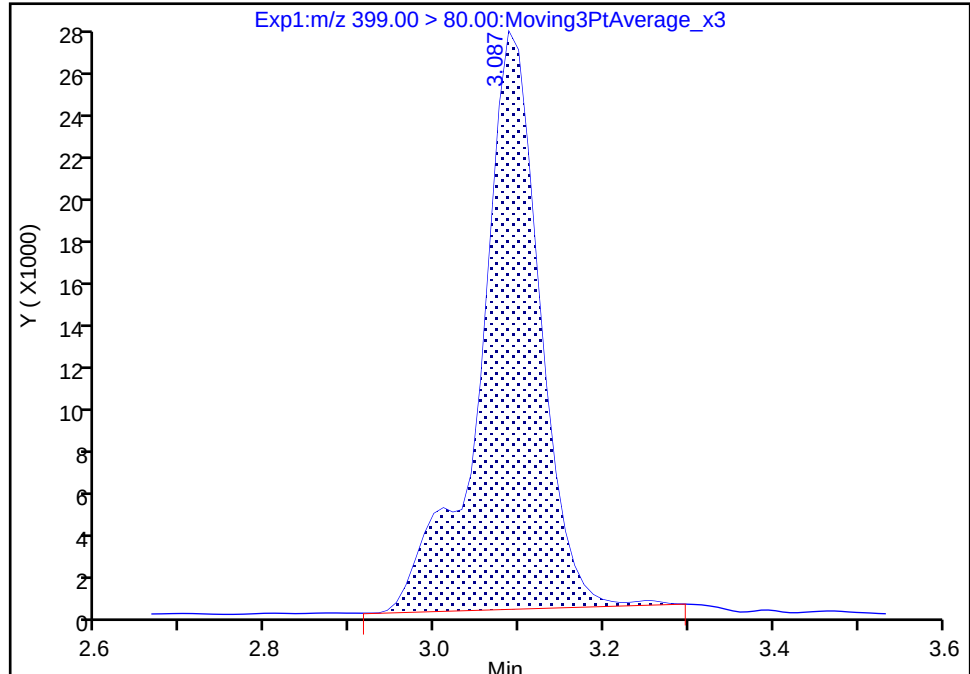
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

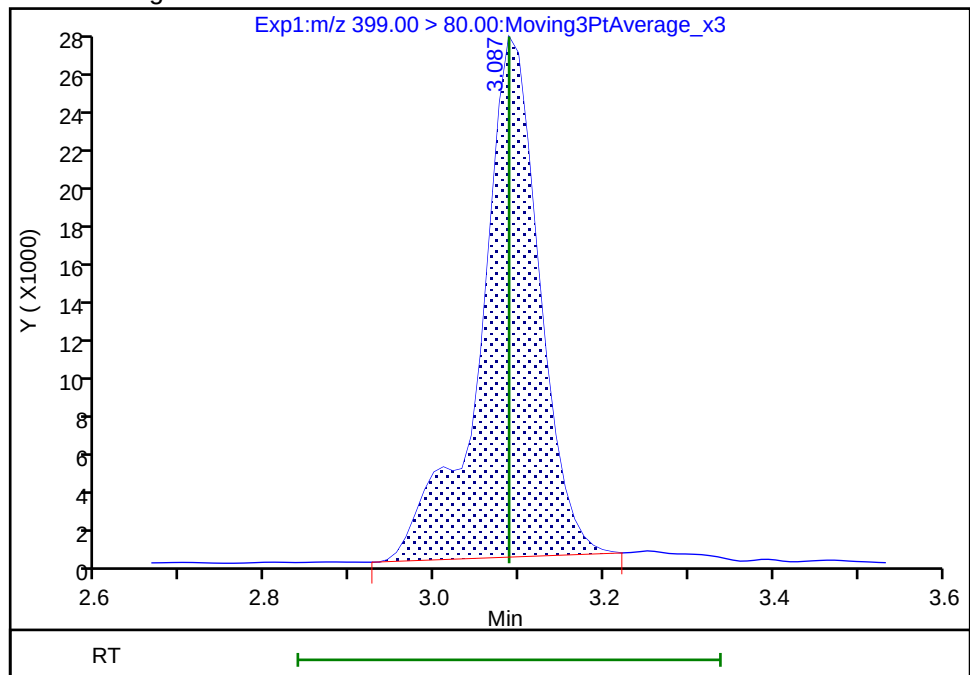
RT: 3.09
Area: 132173
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 130263
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

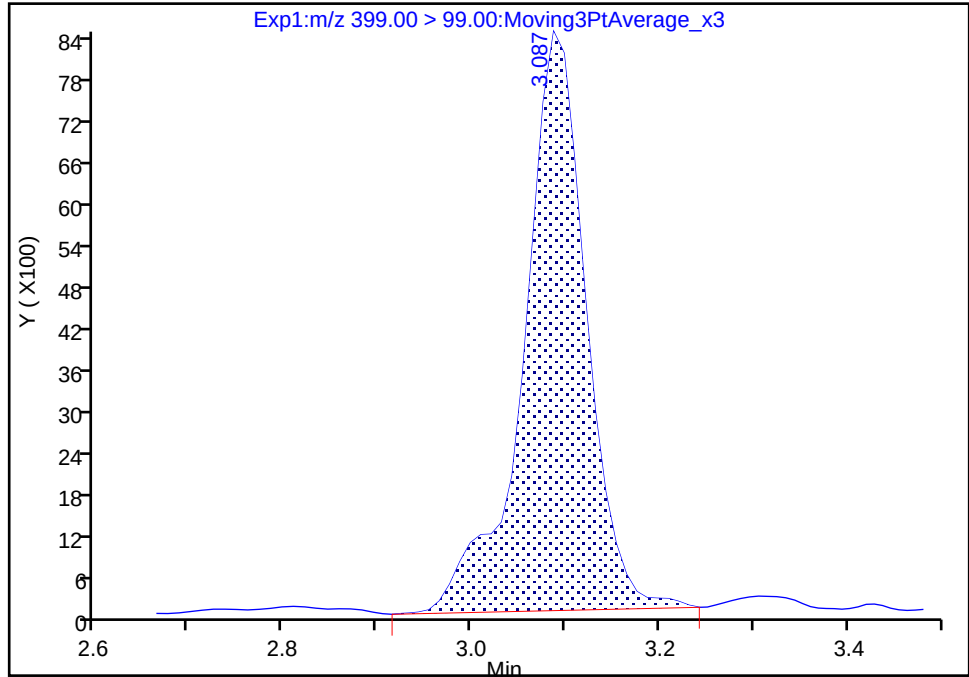
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

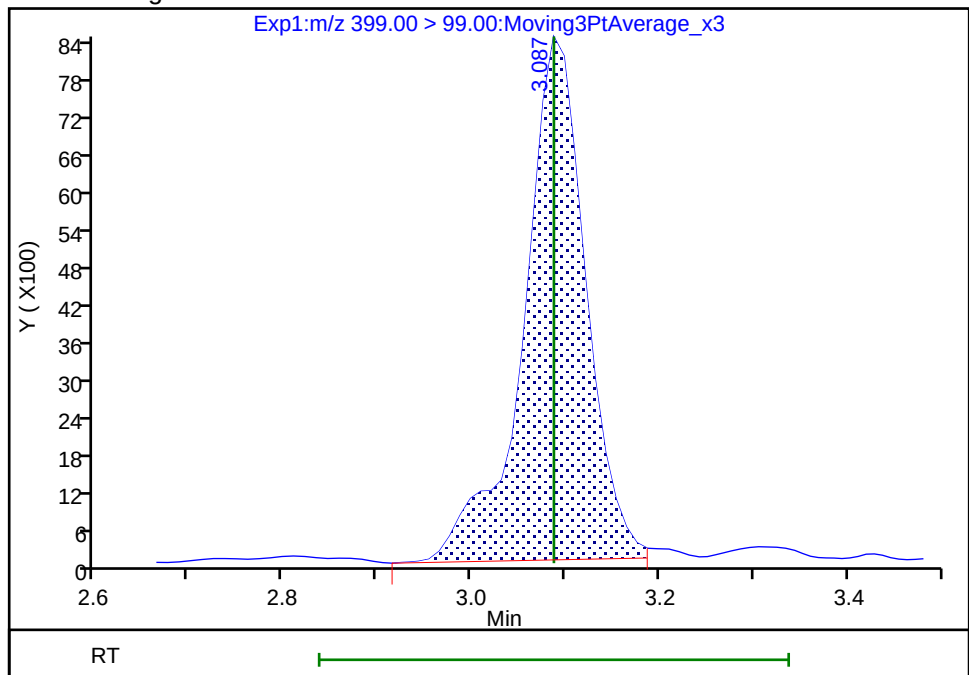
RT: 3.09
Area: 38807
Amount: 0.088001
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 38491
Amount: 0.090506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

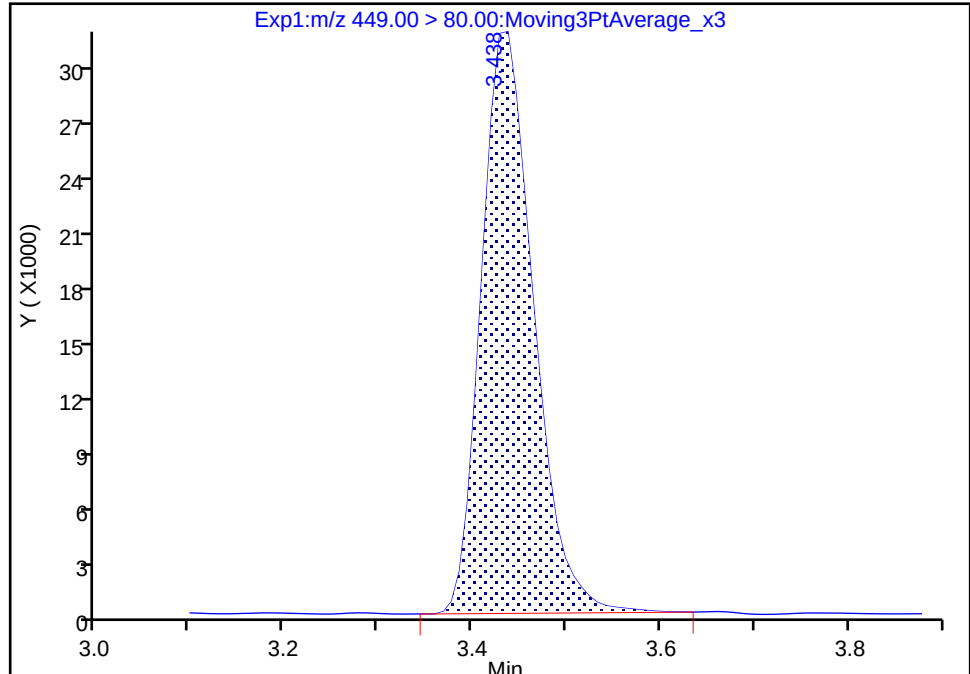
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d		
Injection Date:	18-Nov-2022 14:38:04	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	6

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

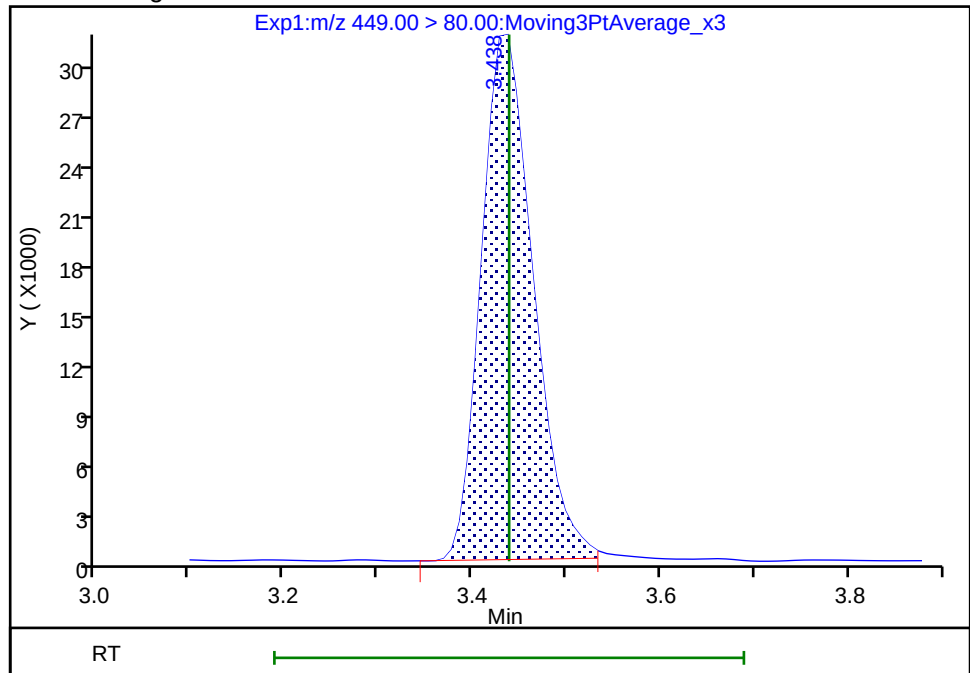
RT: 3.44
Area: 122929
Amount: 0.097560
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 121399
Amount: 0.102806
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

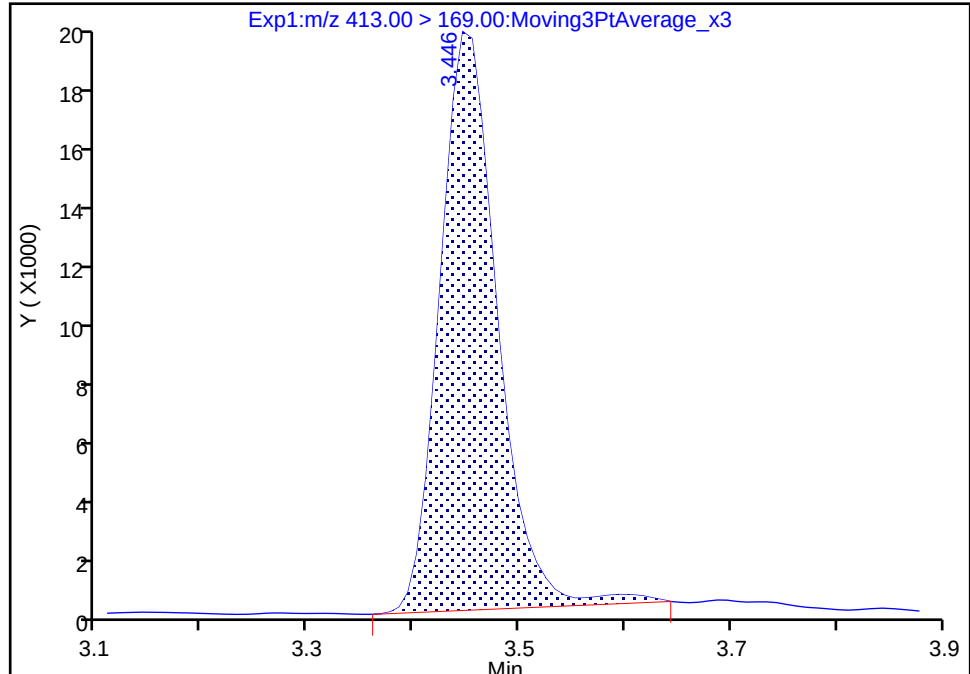
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

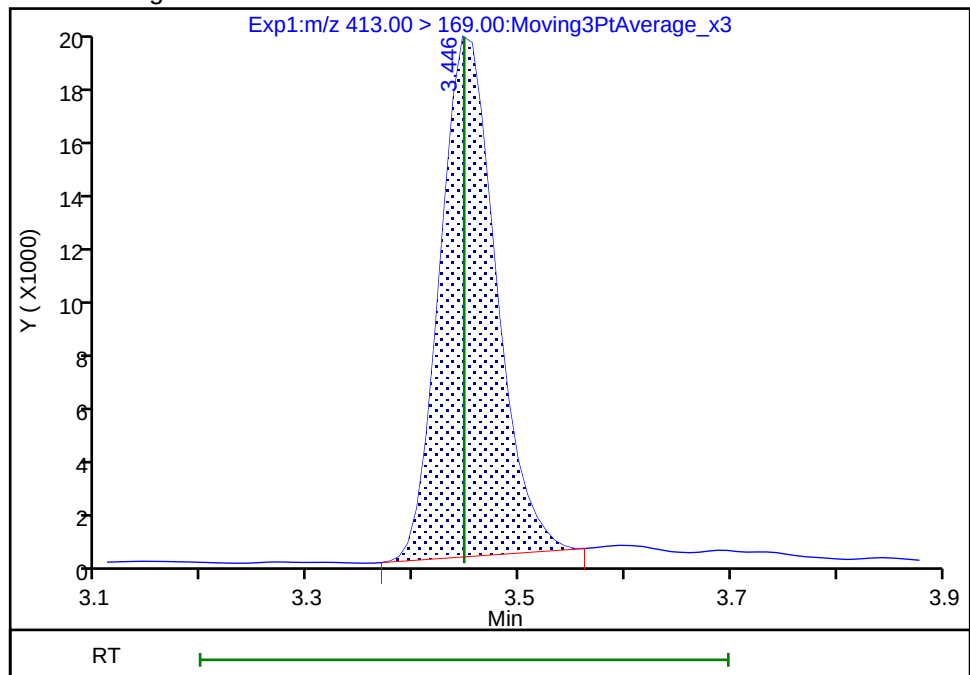
RT: 3.45
Area: 74541
Amount: 0.096919
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 71984
Amount: 0.101896
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:54:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

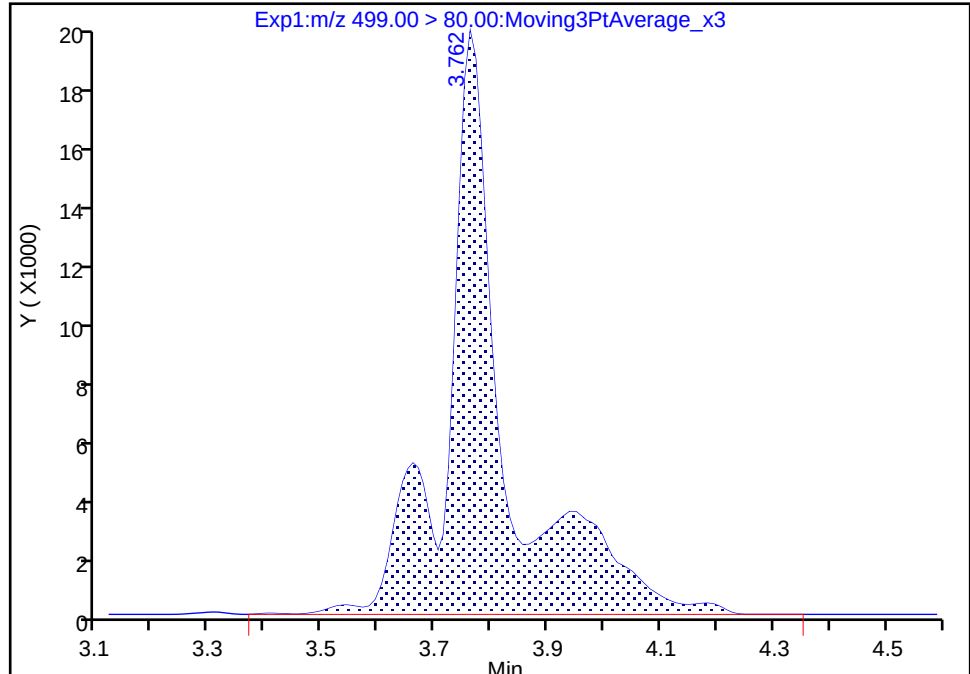
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

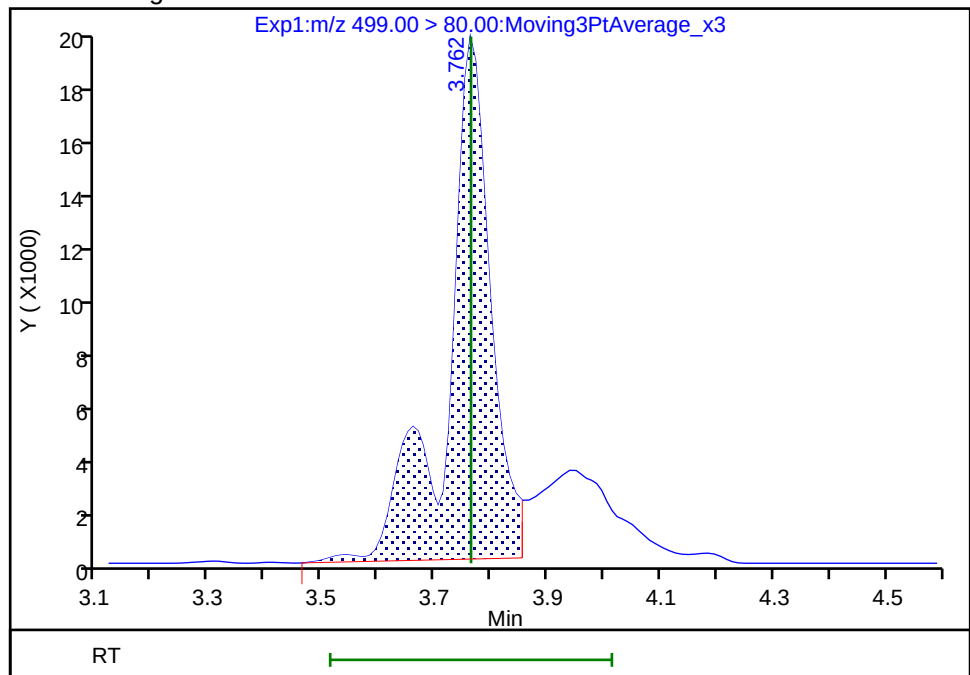
RT: 3.76
Area: 145194
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 105528
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

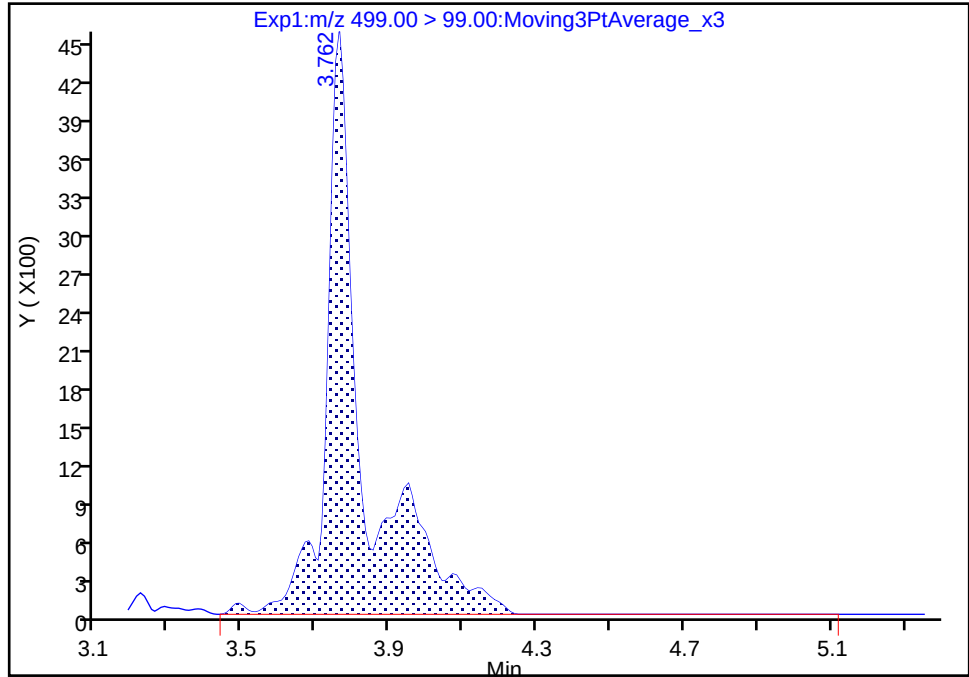
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

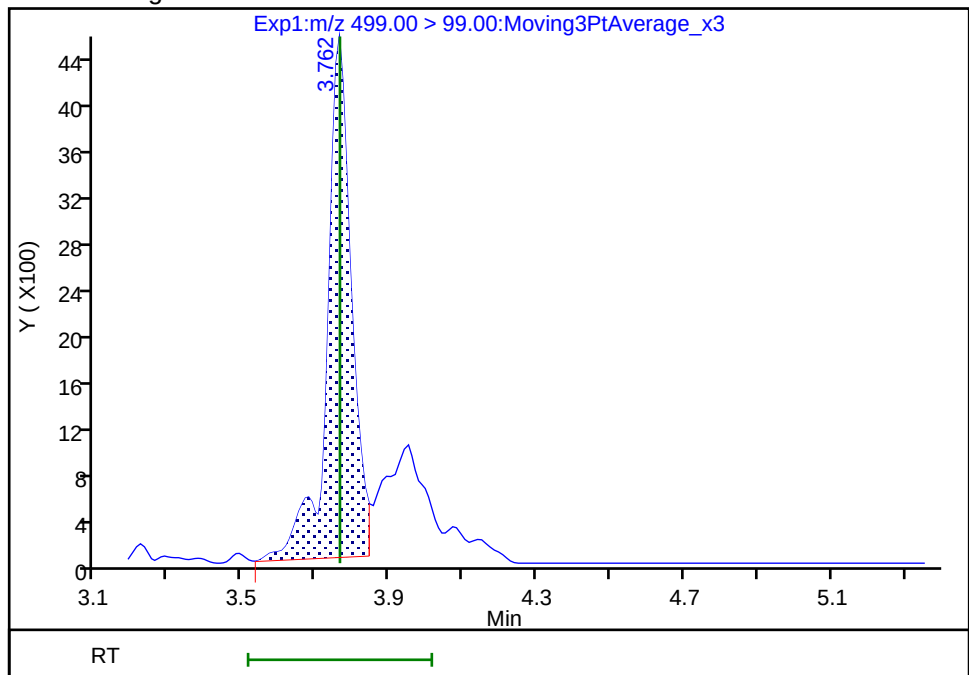
RT: 3.76
Area: 31586
Amount: 0.106140
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 20524
Amount: 0.102635
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 307 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

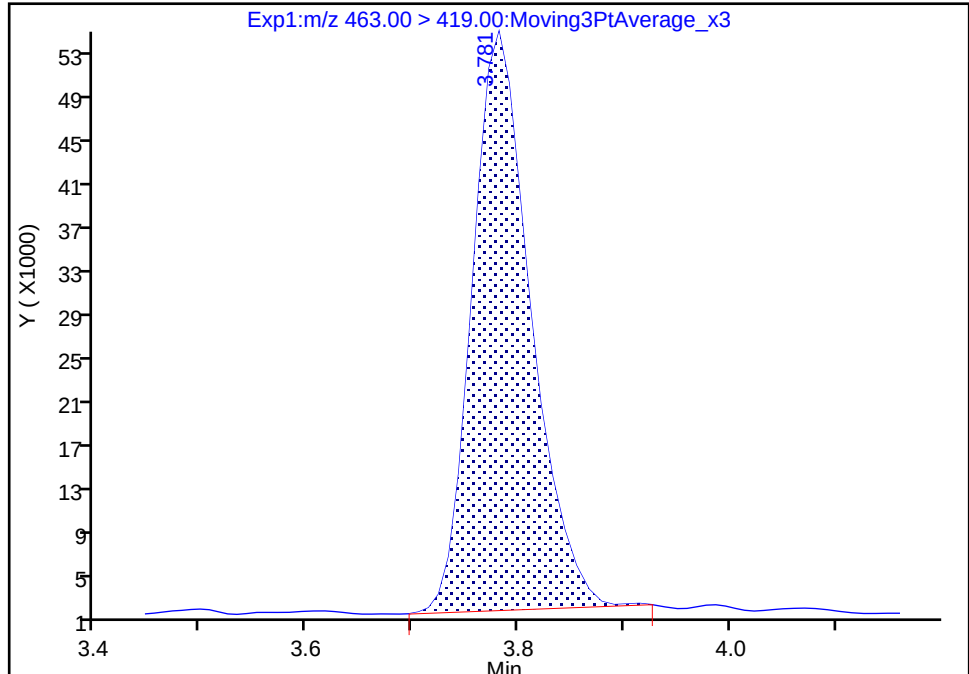
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

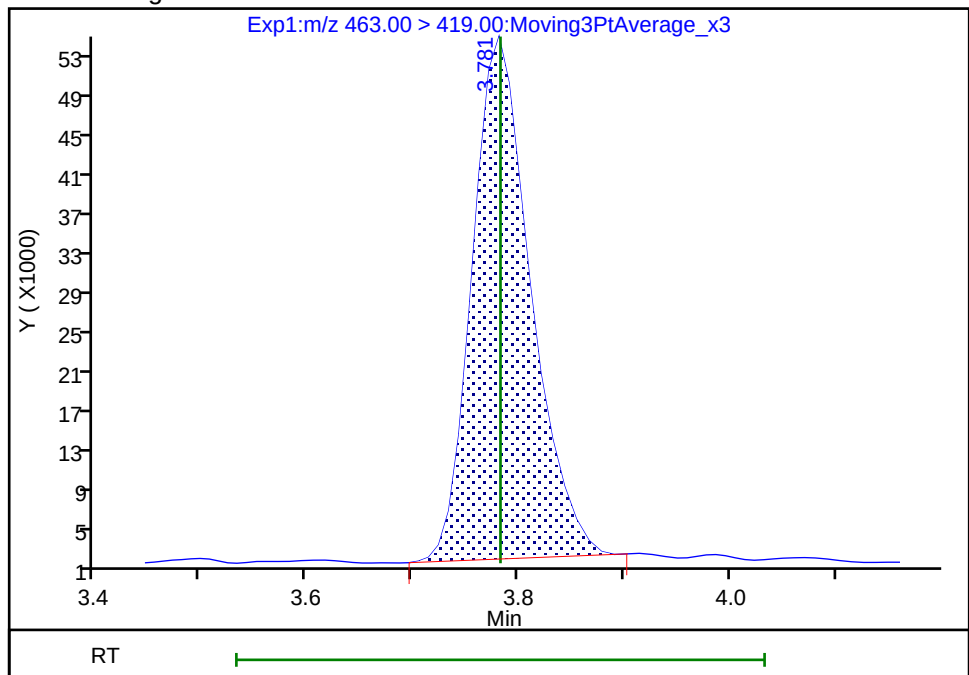
RT: 3.78
Area: 202724
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 201460
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

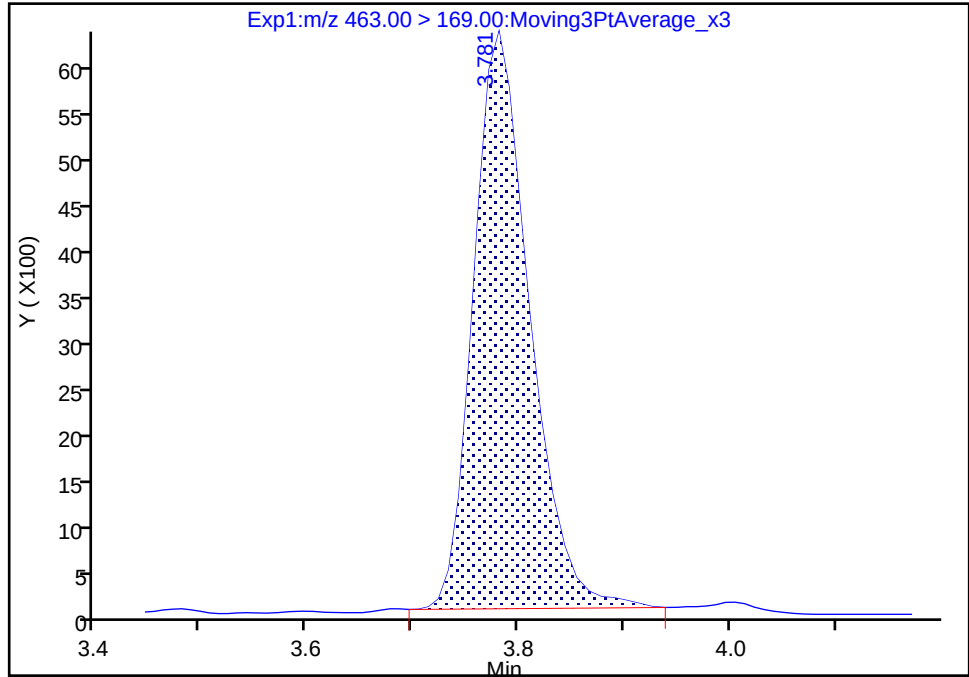
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

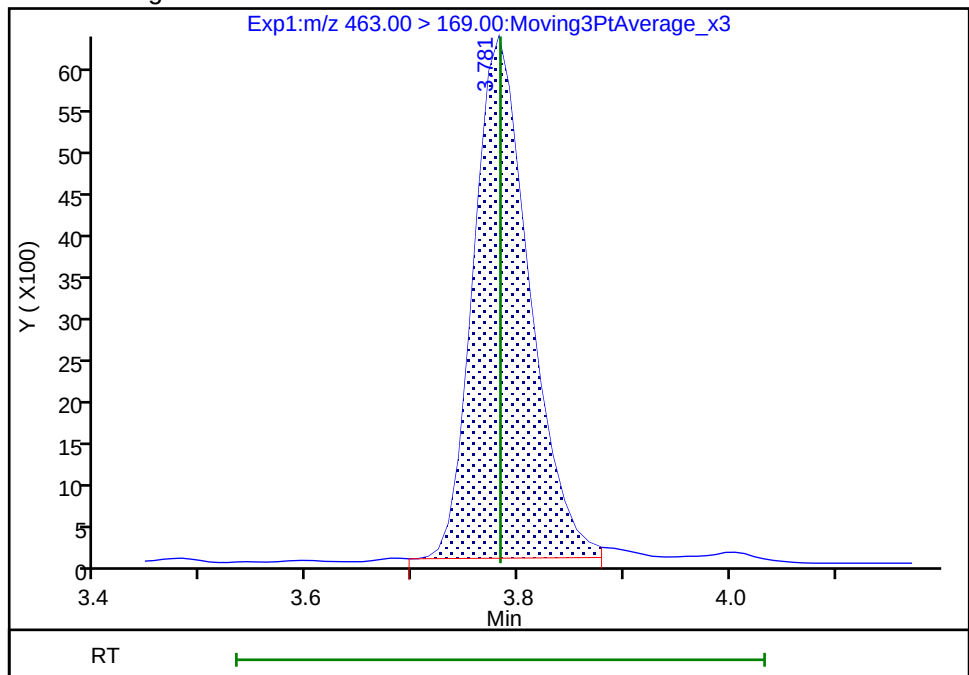
RT: 3.78
Area: 23367
Amount: 0.099917
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 23149
Amount: 0.102775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

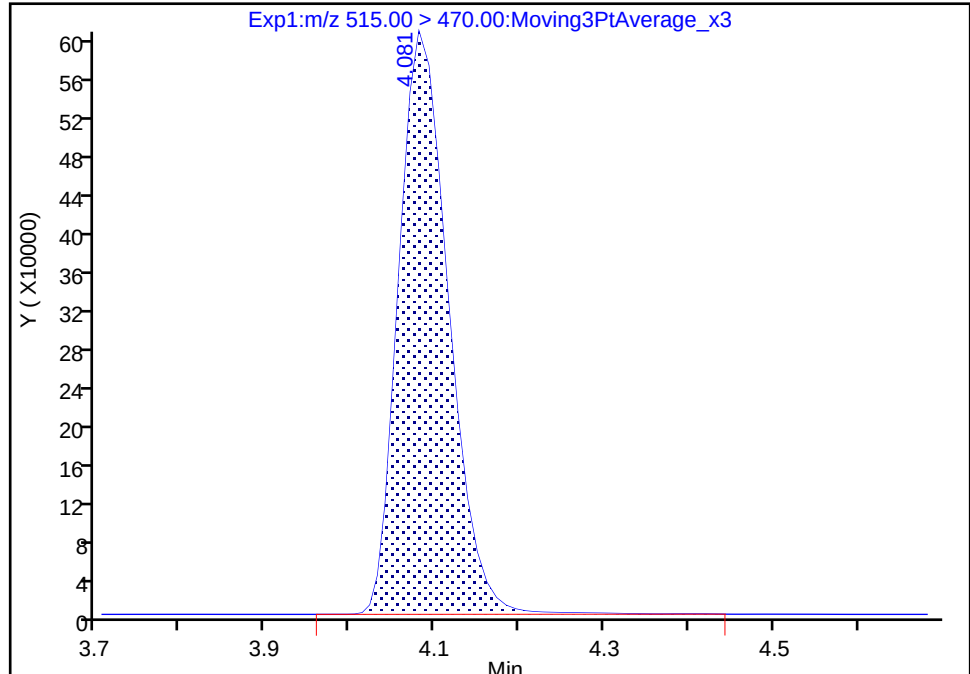
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

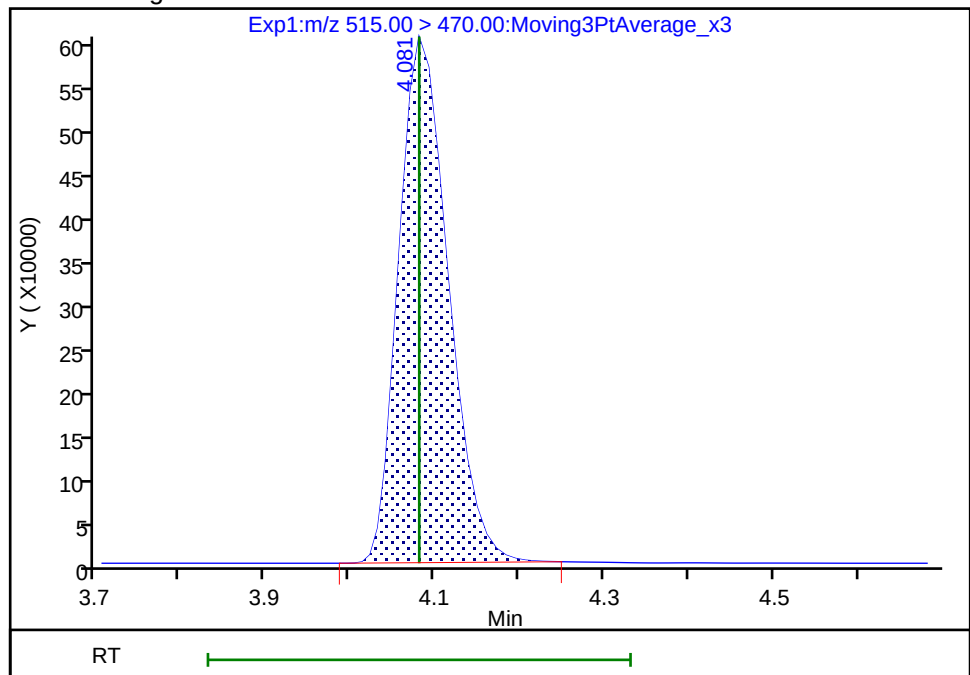
RT: 4.08
Area: 2458427
Amount: 1.268074
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2439344
Amount: 1.251415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:55:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

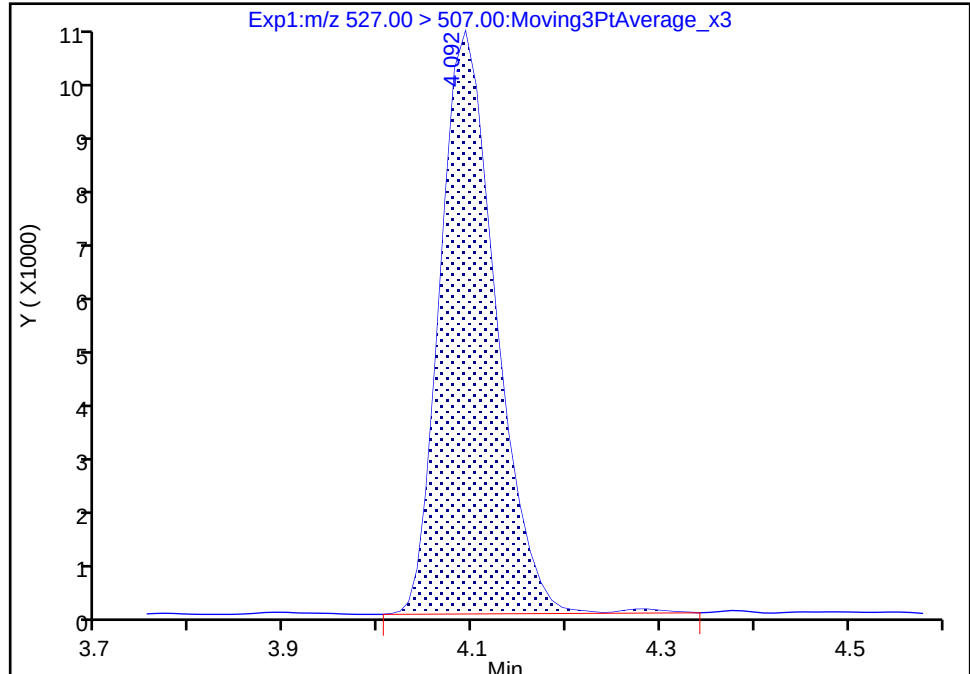
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

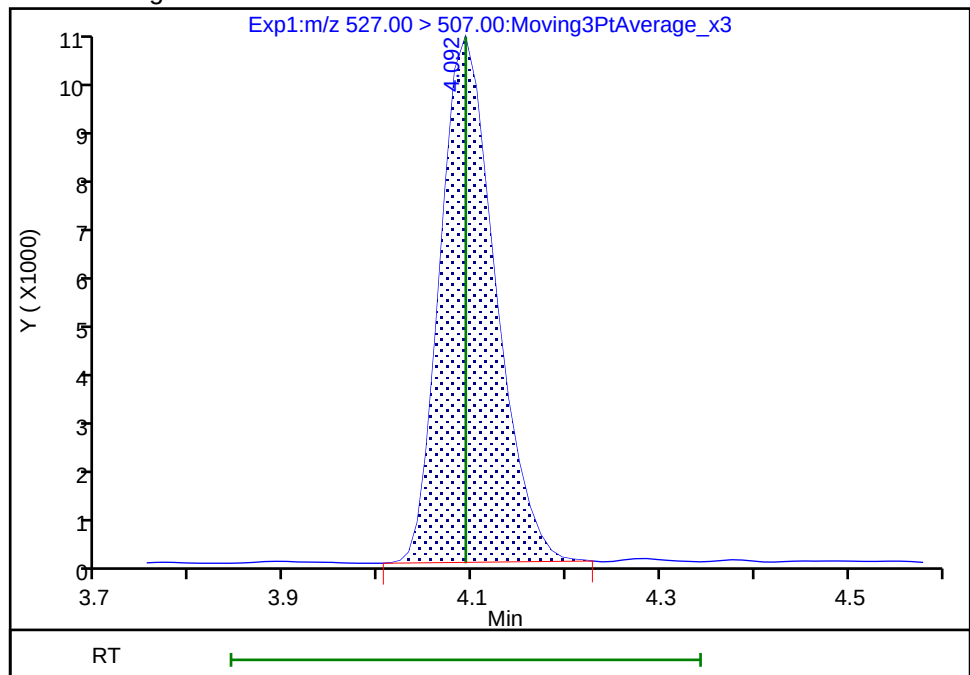
RT: 4.09
Area: 41439
Amount: 0.097438
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 41049
Amount: 0.098942
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

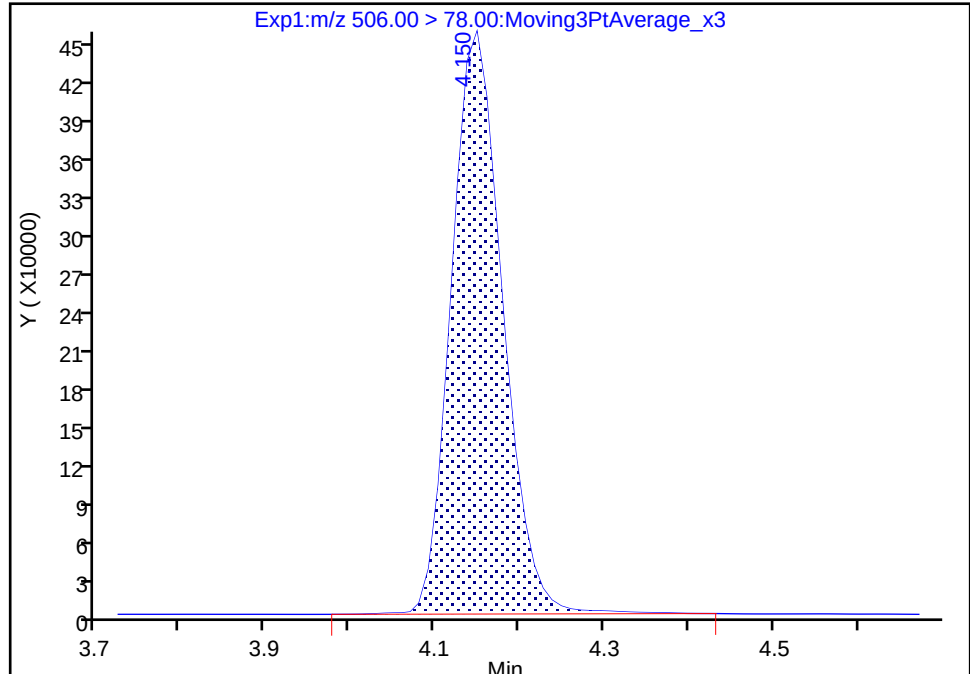
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

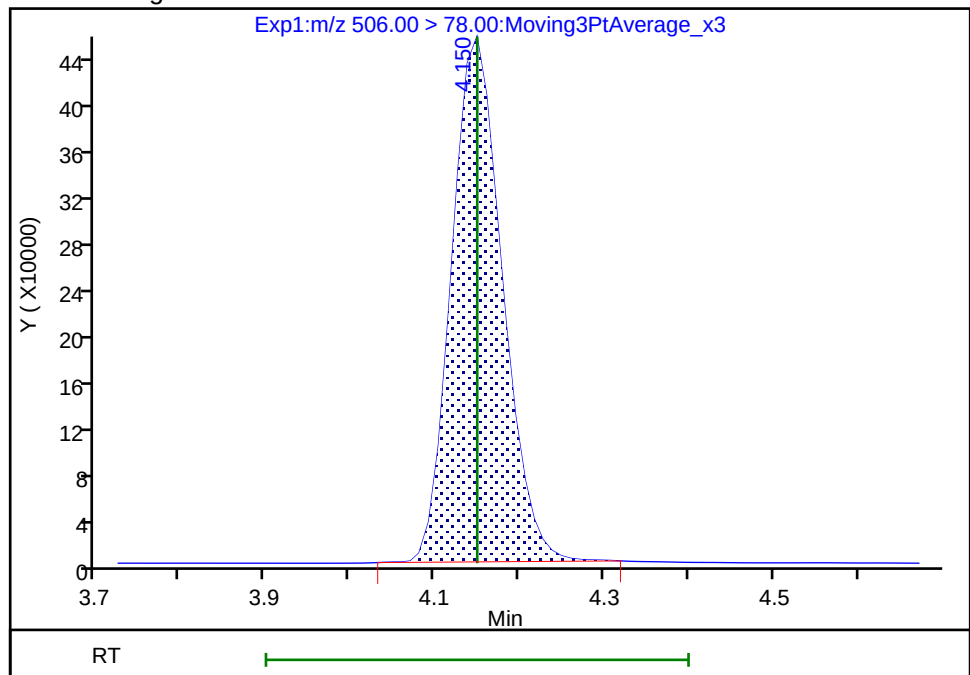
RT: 4.15
Area: 1921287
Amount: 1.214680
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1899612
Amount: 1.188681
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

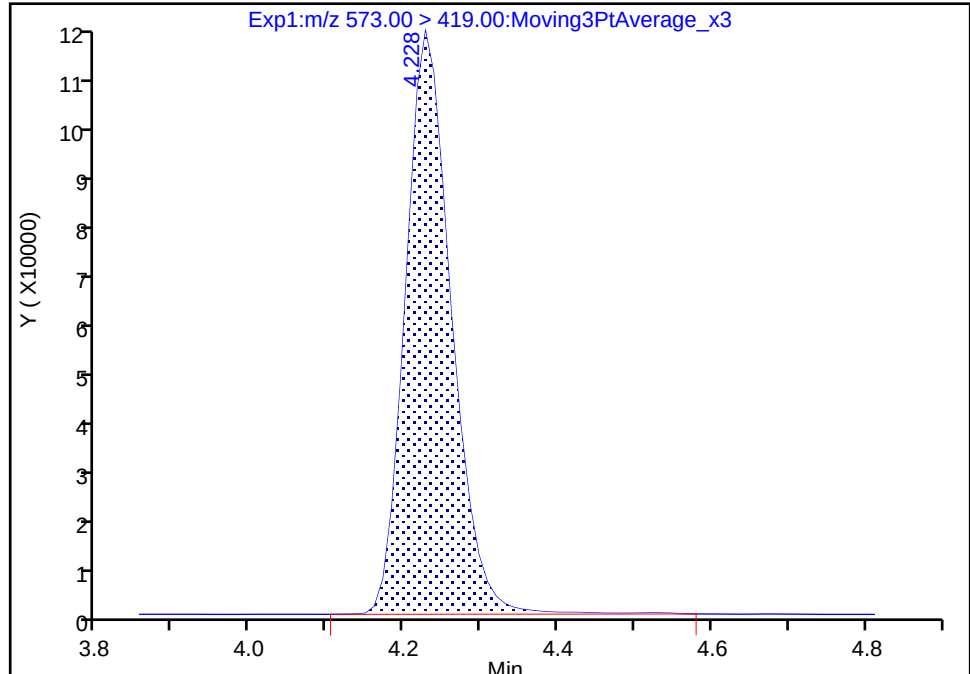
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

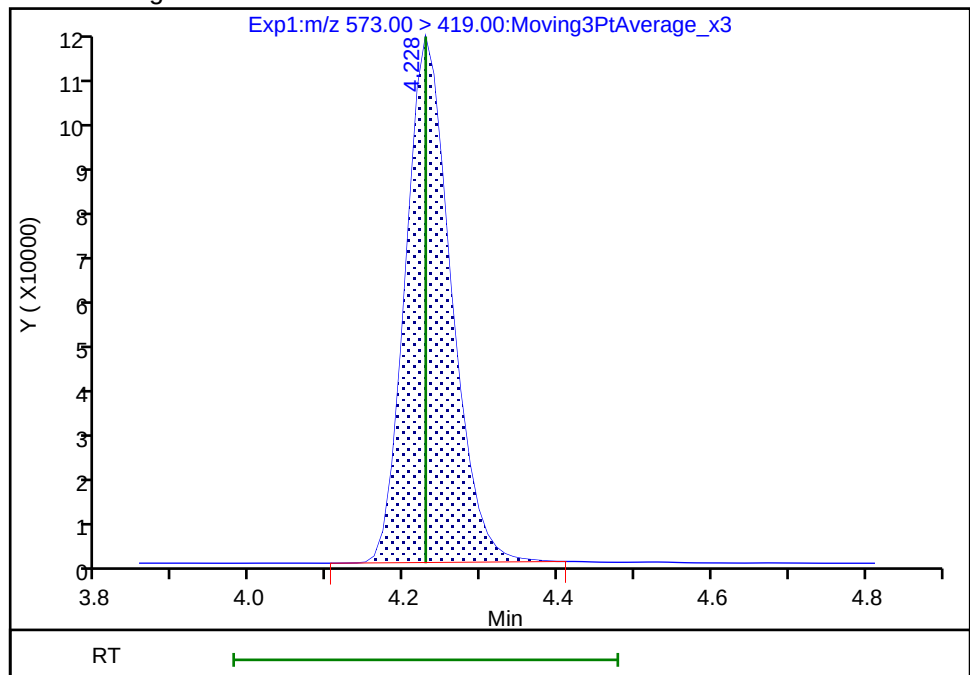
RT: 4.23
Area: 483256
Amount: 1.235603
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478399
Amount: 1.205370
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

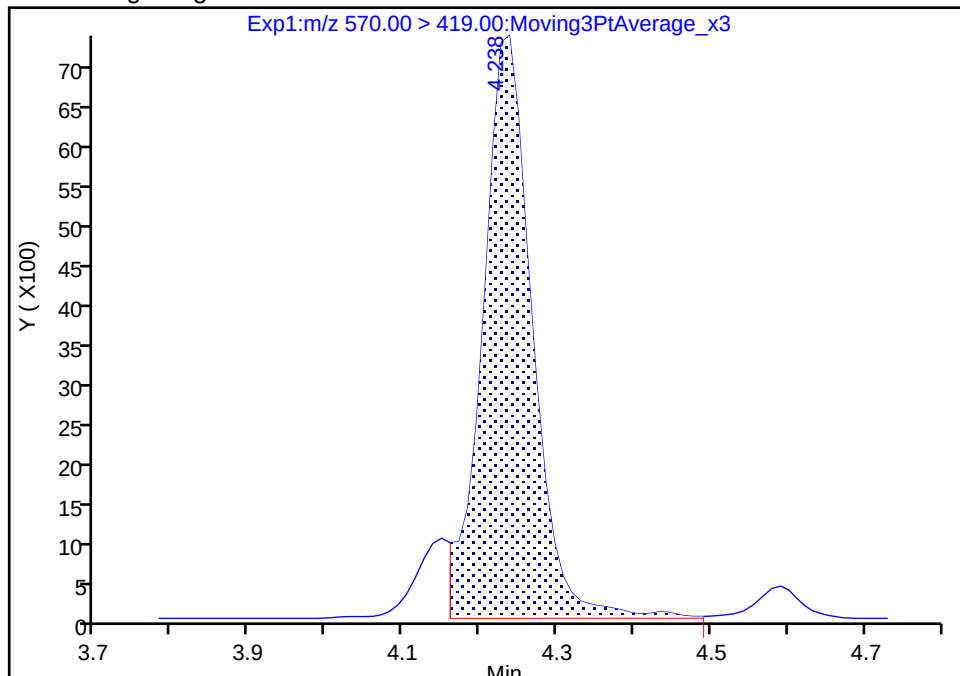
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

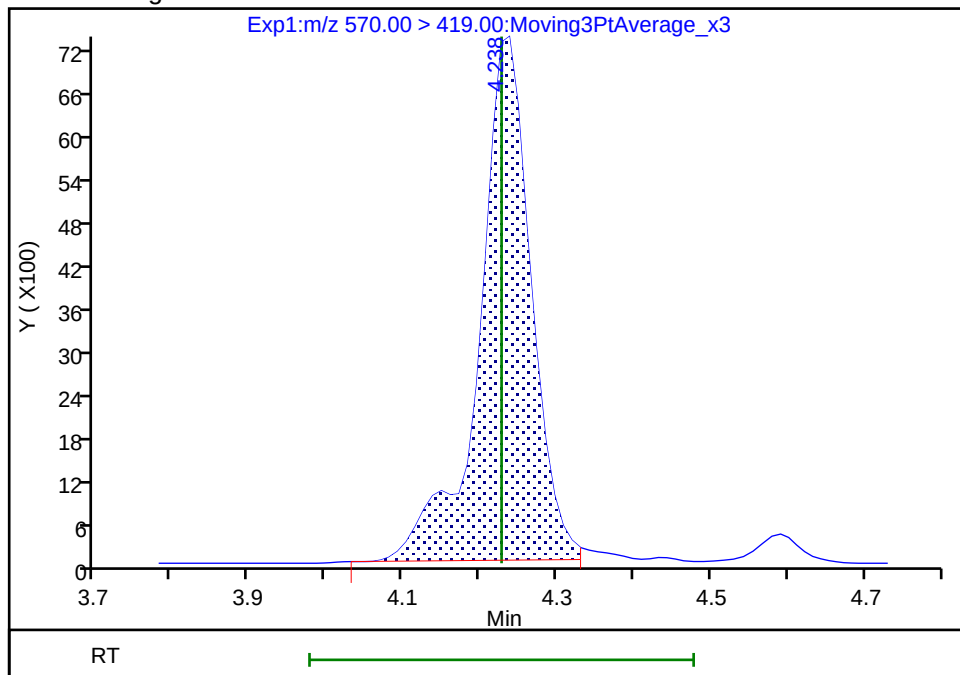
RT: 4.24
Area: 32710
Amount: 0.089959
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 34156
Amount: 0.092118
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

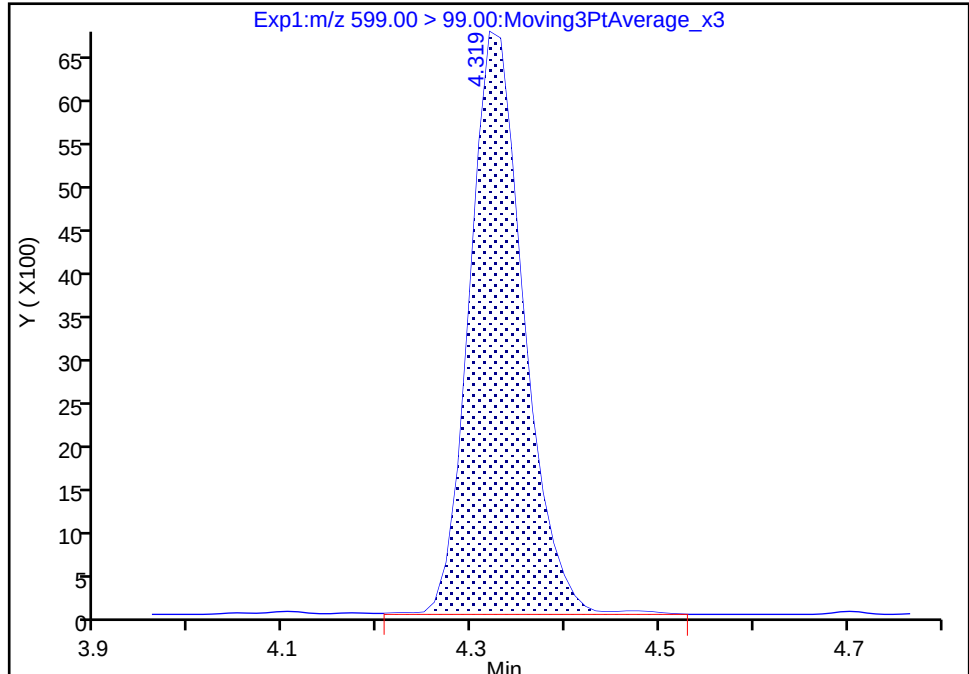
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

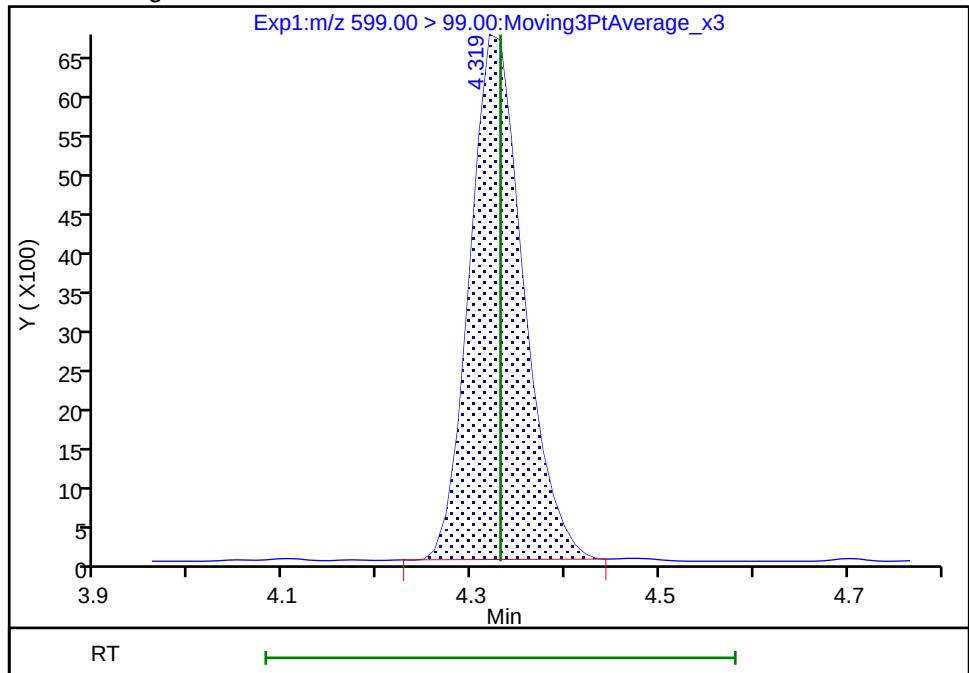
RT: 4.32
Area: 27216
Amount: 0.096282
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 26777
Amount: 0.099171
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

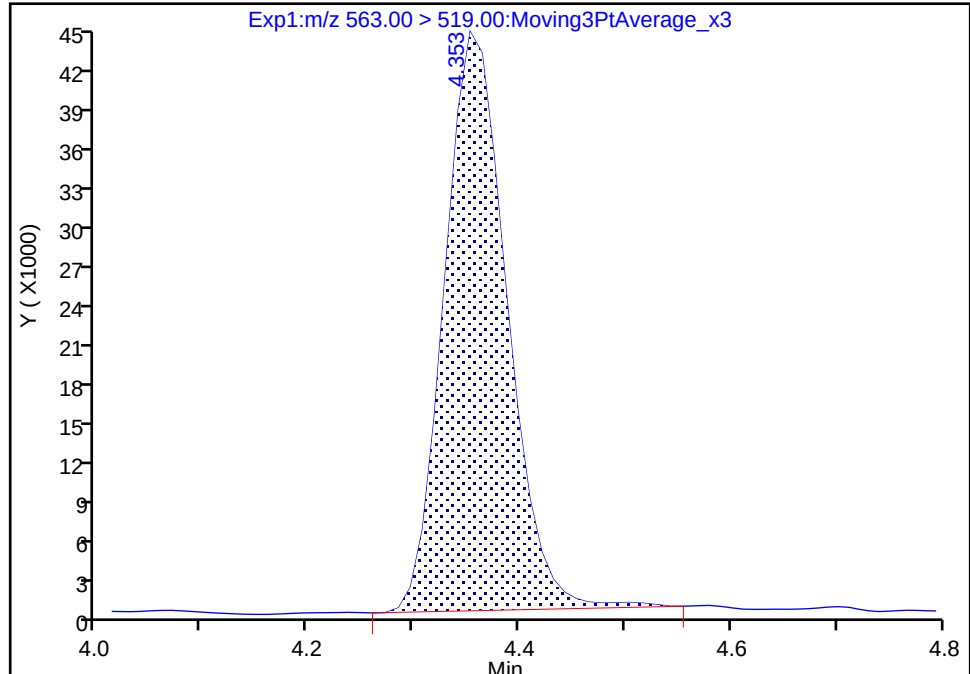
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

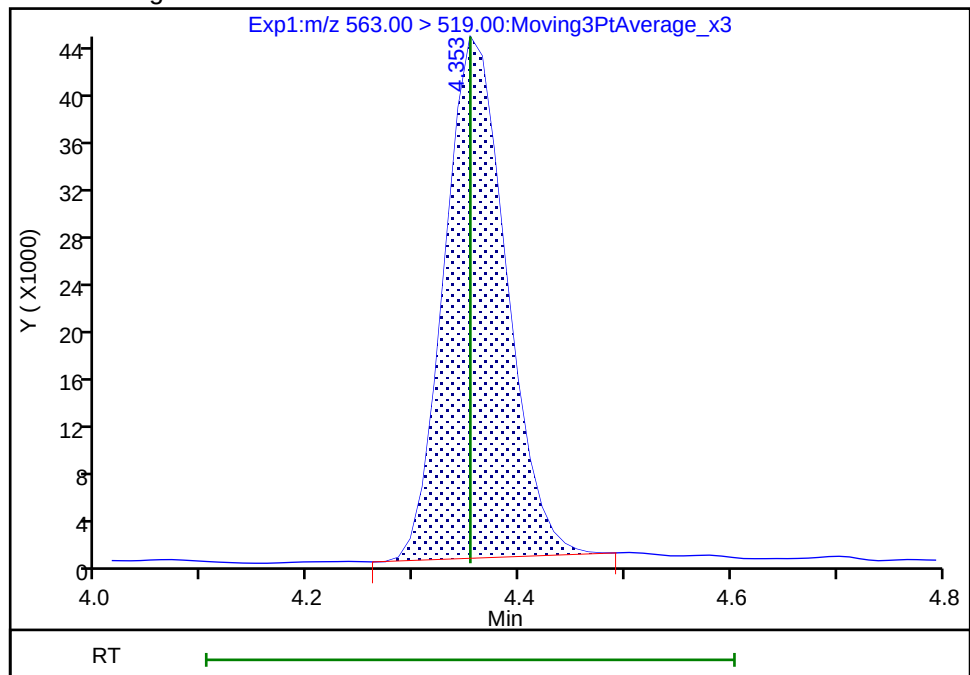
RT: 4.35
Area: 179706
Amount: 0.100640
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 176444
Amount: 0.103263
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:56:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

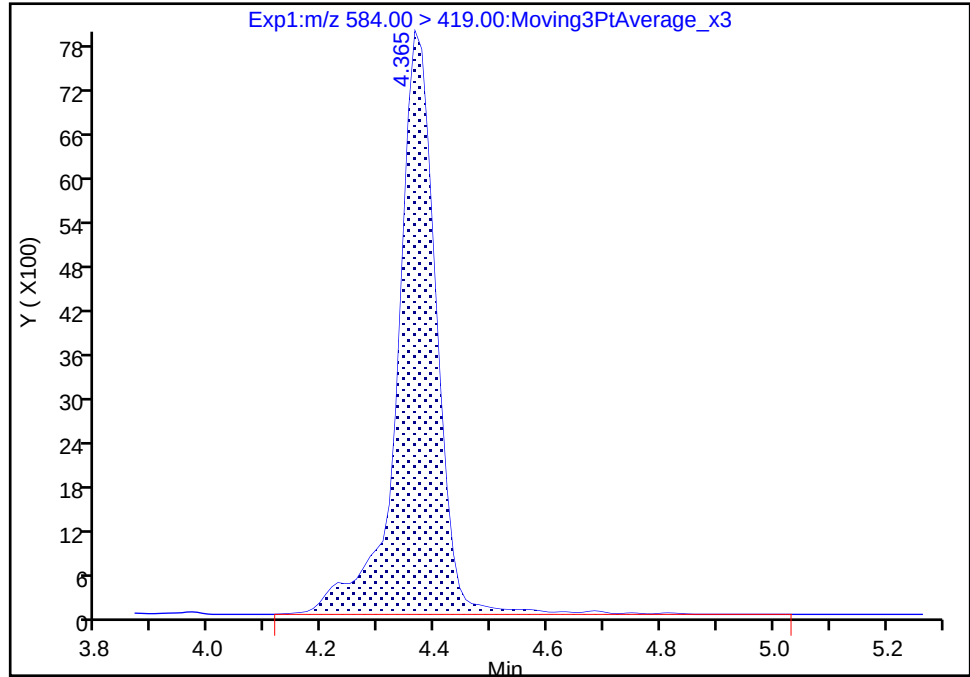
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

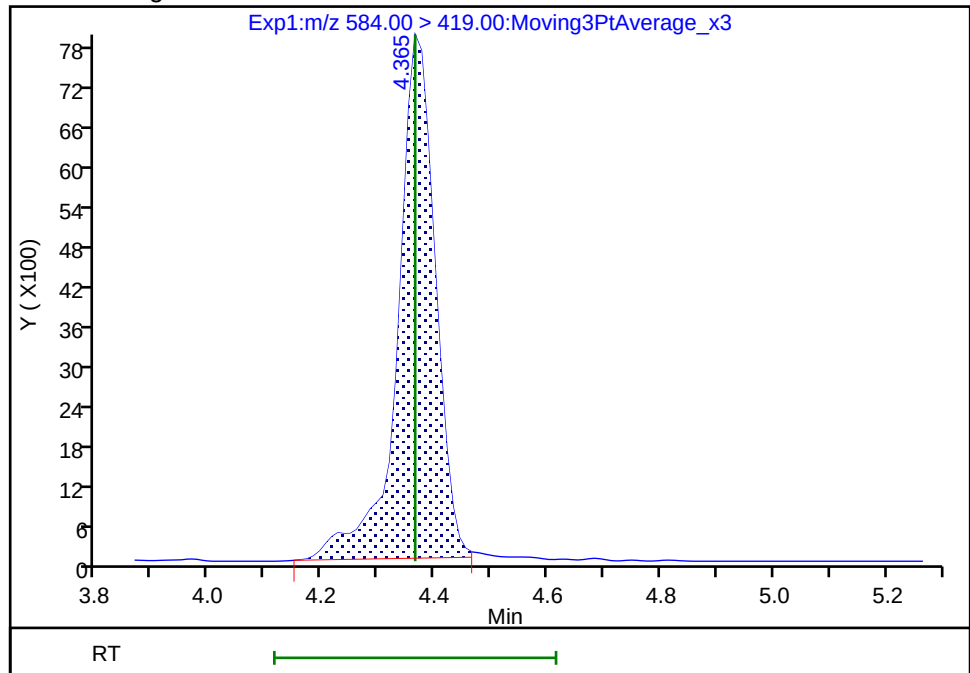
RT: 4.36
Area: 38260
Amount: 0.101365
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 36650
Amount: 0.106207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

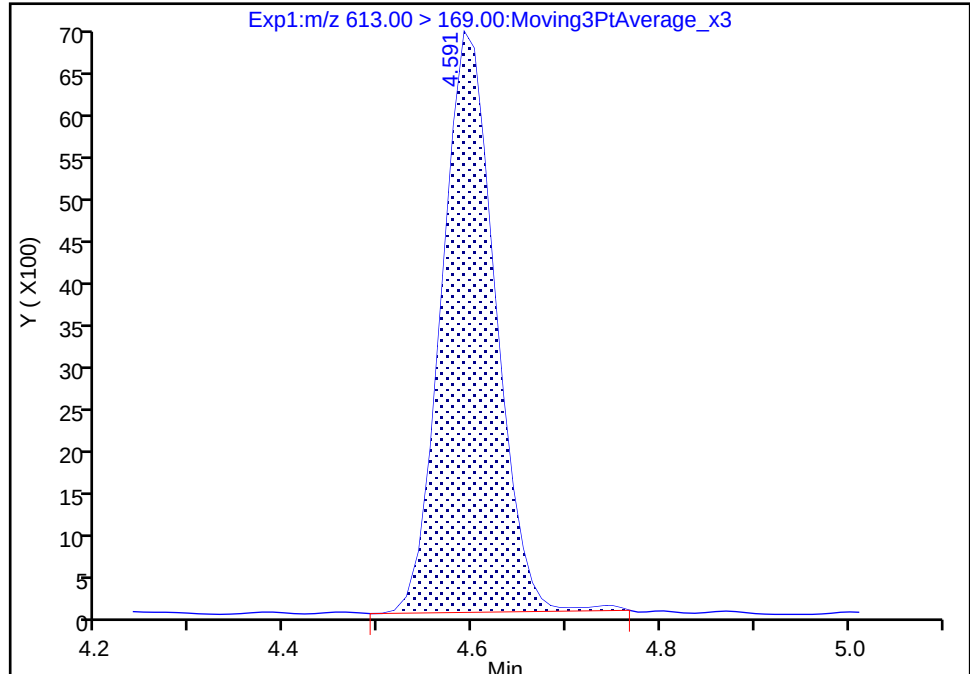
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

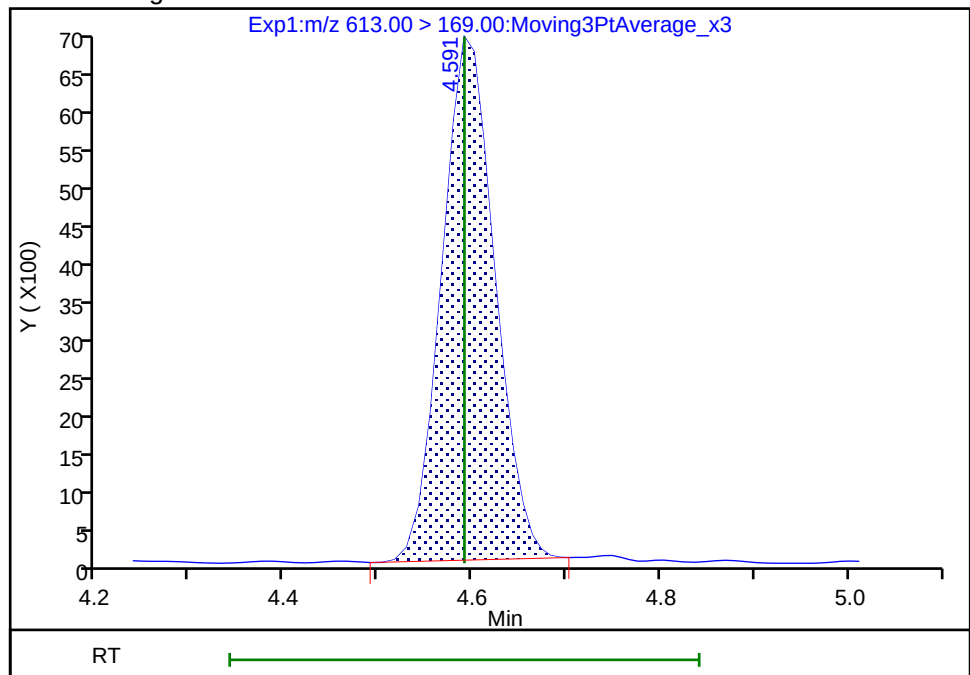
RT: 4.59
Area: 27250
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 26866
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

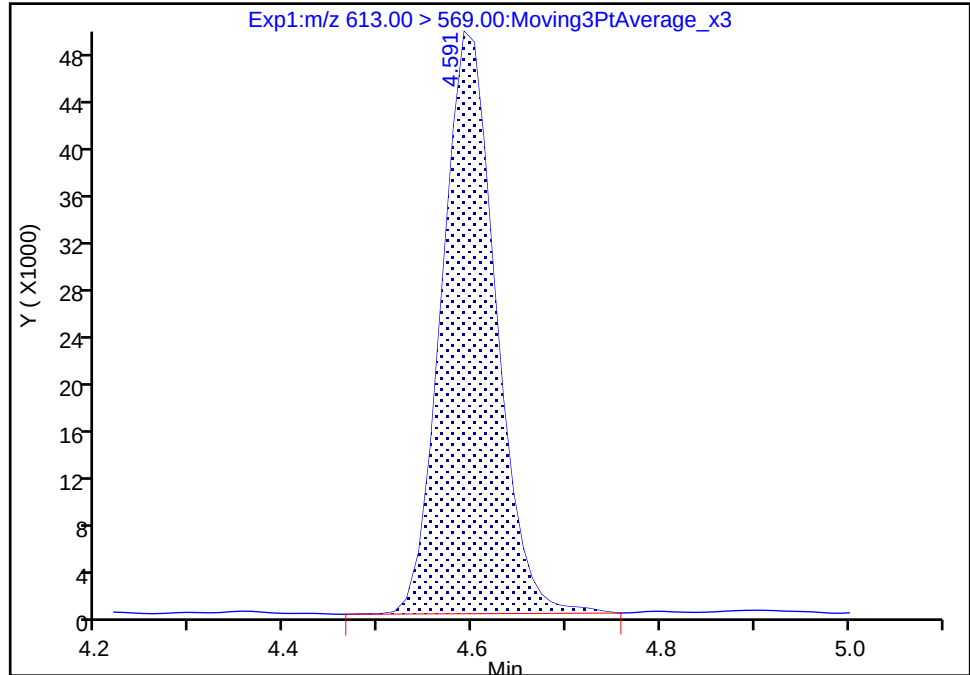
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

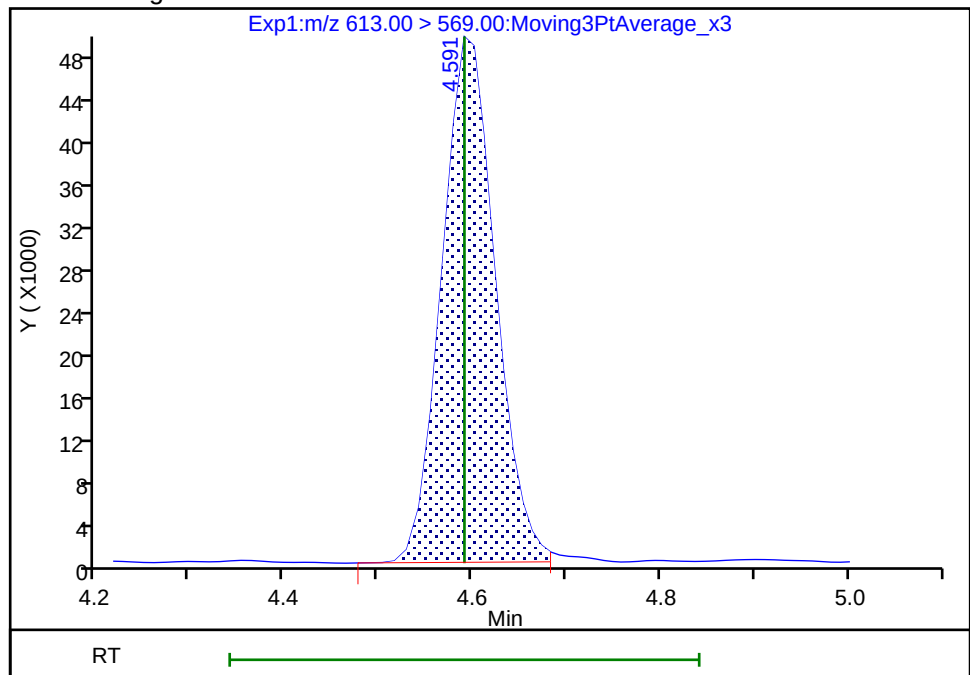
RT: 4.59
Area: 197049
Amount: 0.099538
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 194829
Amount: 0.106894
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

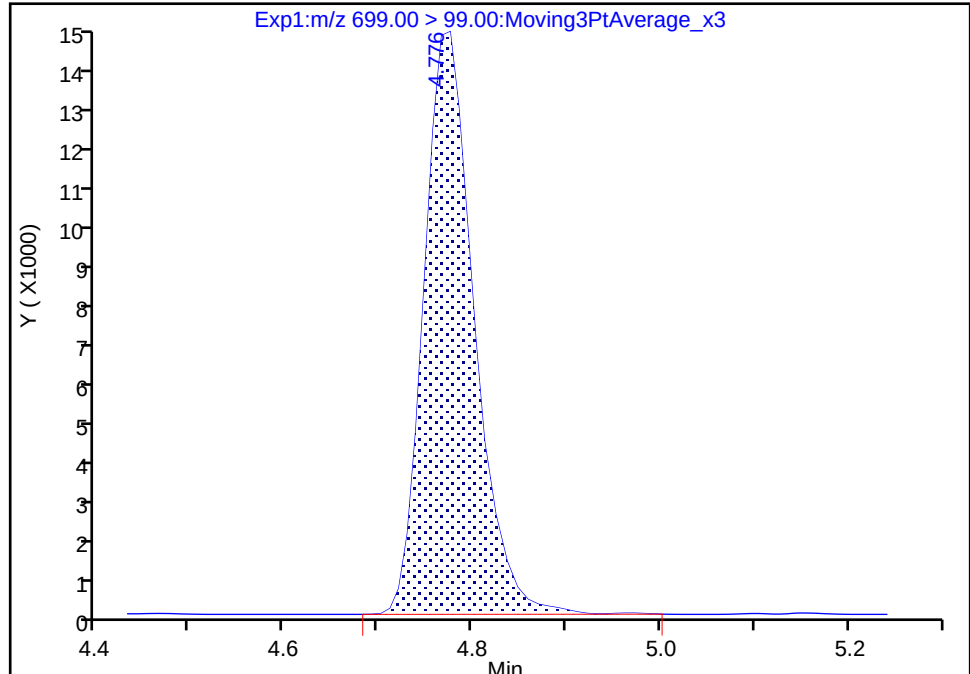
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

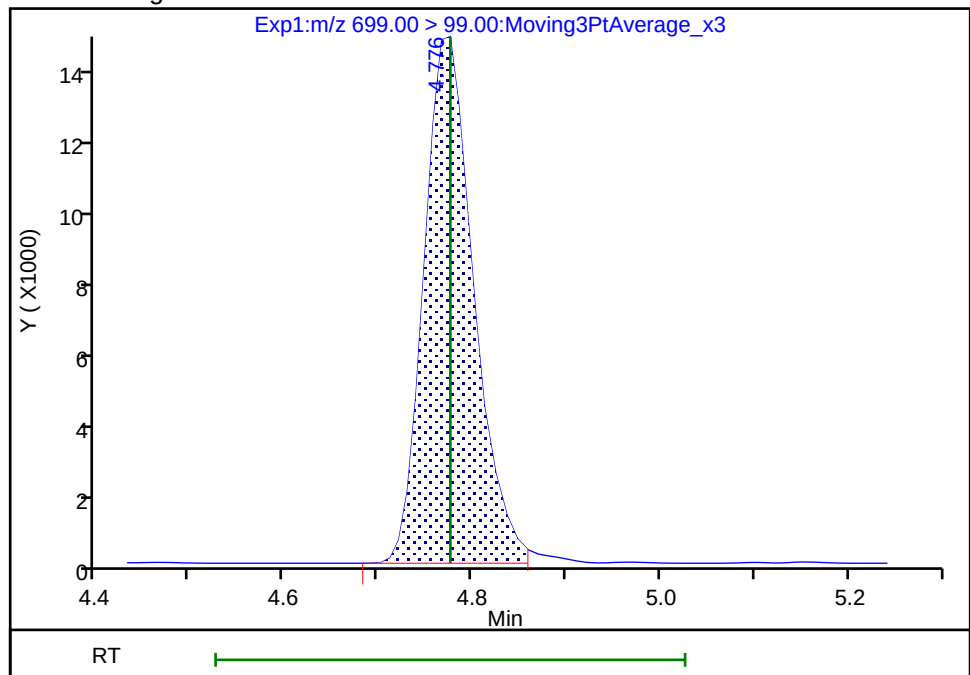
RT: 4.78
Area: 52070
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 51408
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

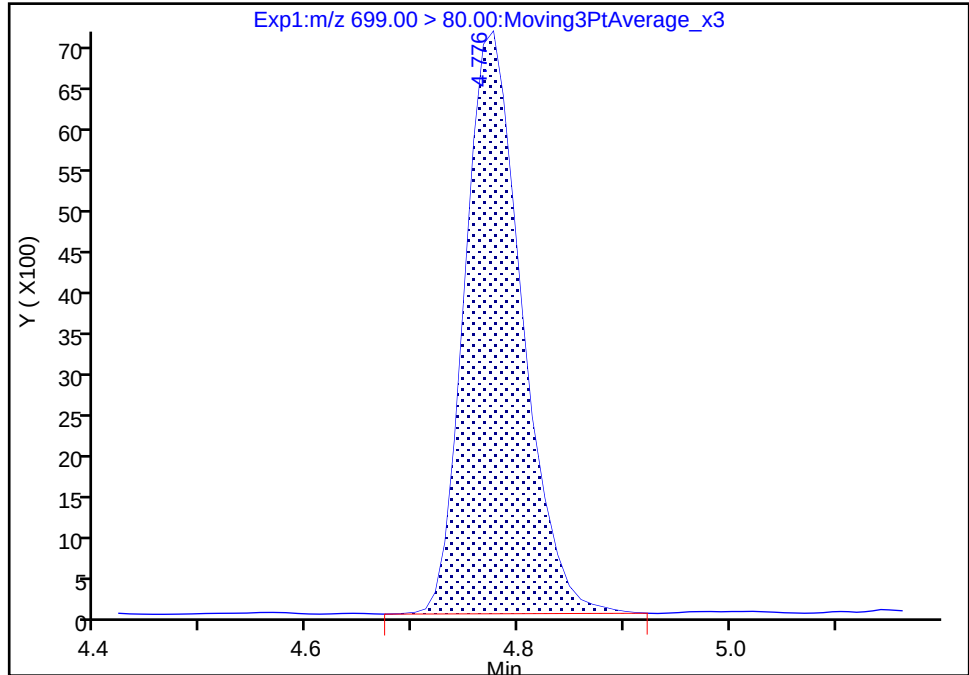
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

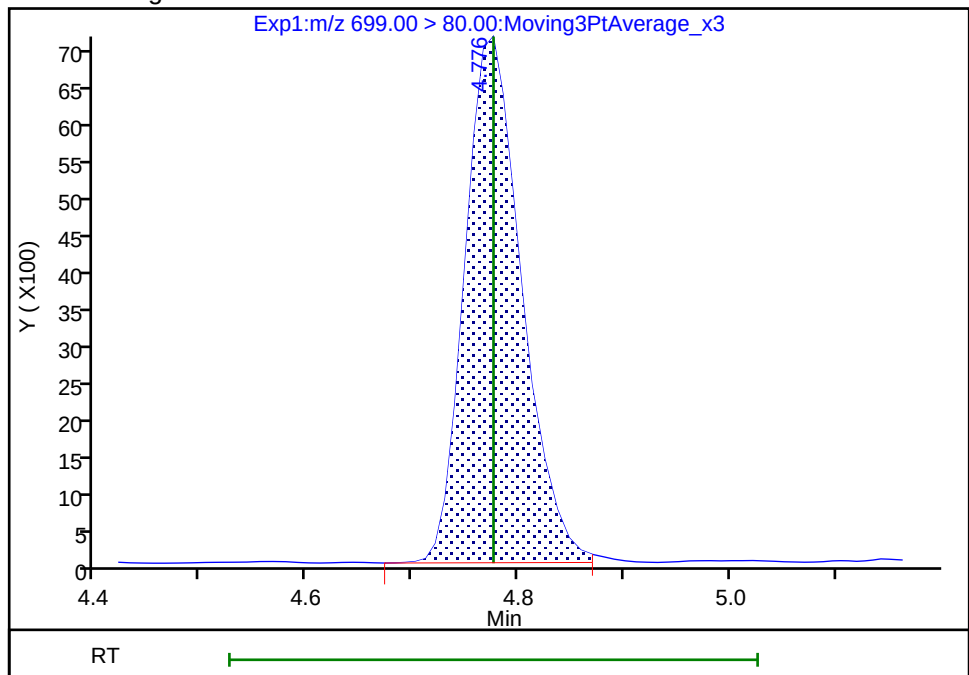
RT: 4.78
Area: 26672
Amount: 0.097278
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 26552
Amount: 0.102415
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

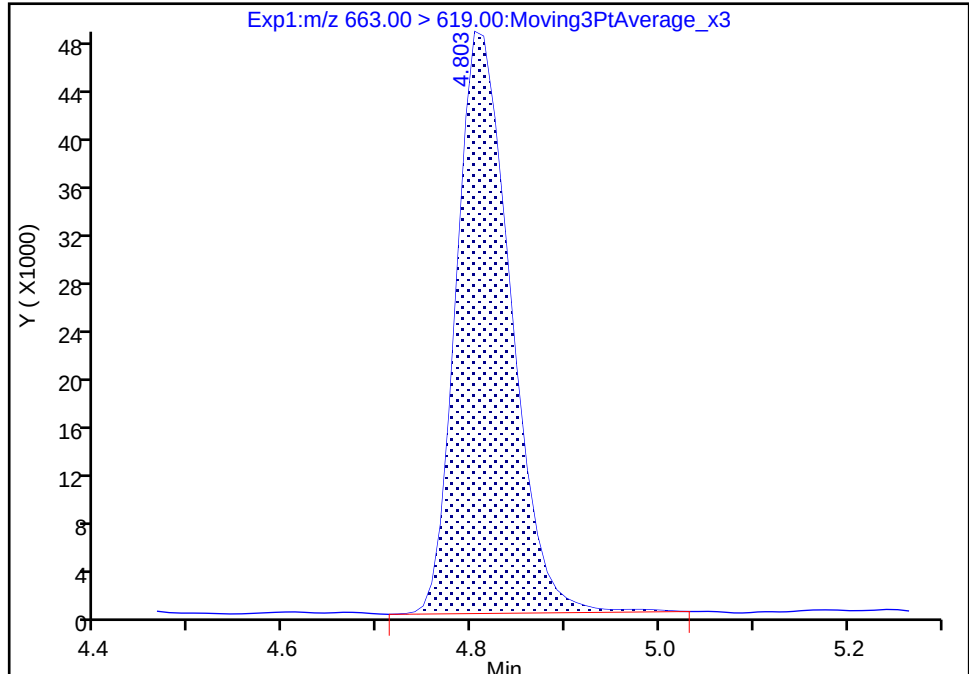
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

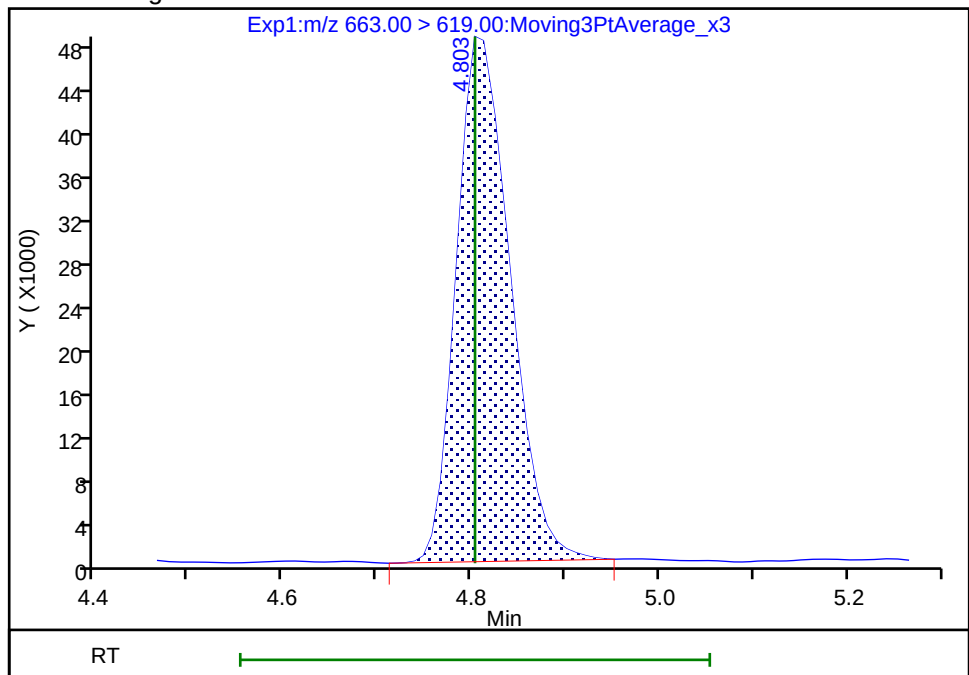
RT: 4.80
Area: 191046
Amount: 0.101171
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 189059
Amount: 0.108461
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

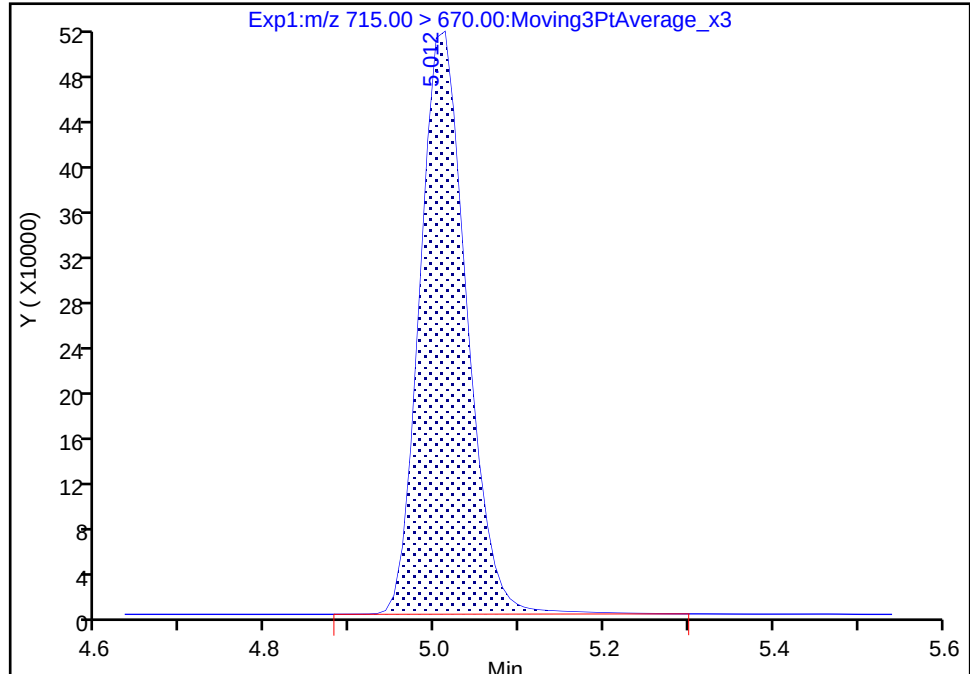
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

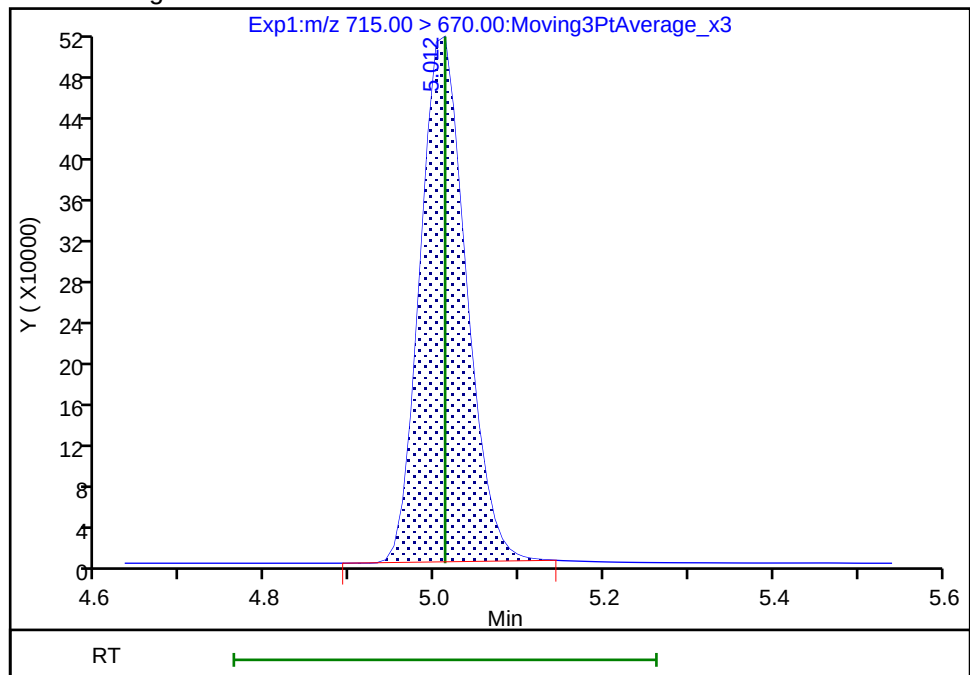
RT: 5.01
Area: 1965548
Amount: 1.242220
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1938056
Amount: 1.232163
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:57:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

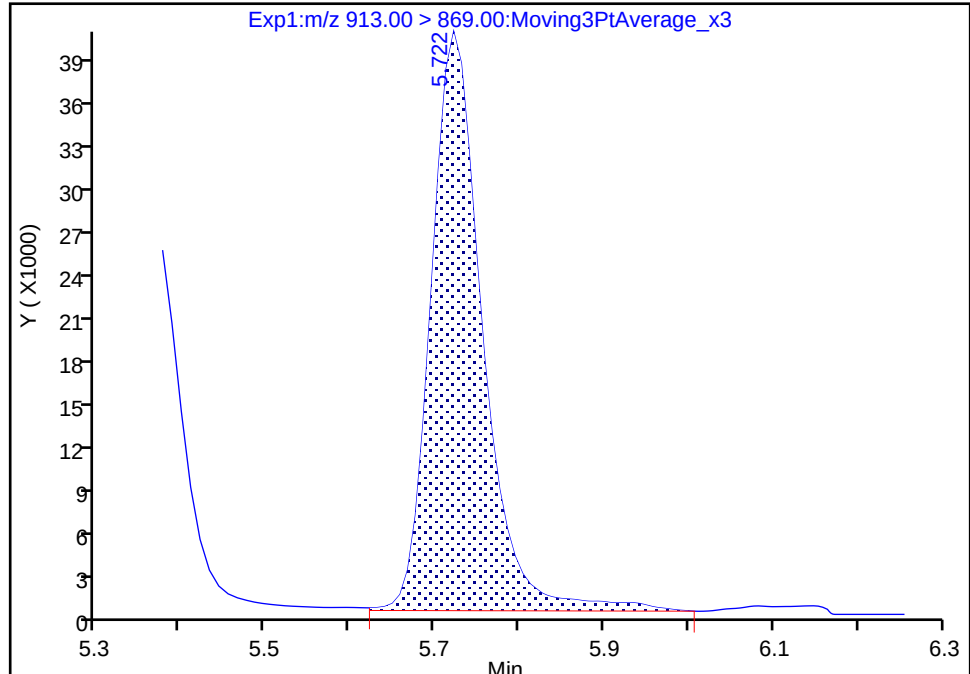
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL06.d
Injection Date: 18-Nov-2022 14:38:04 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

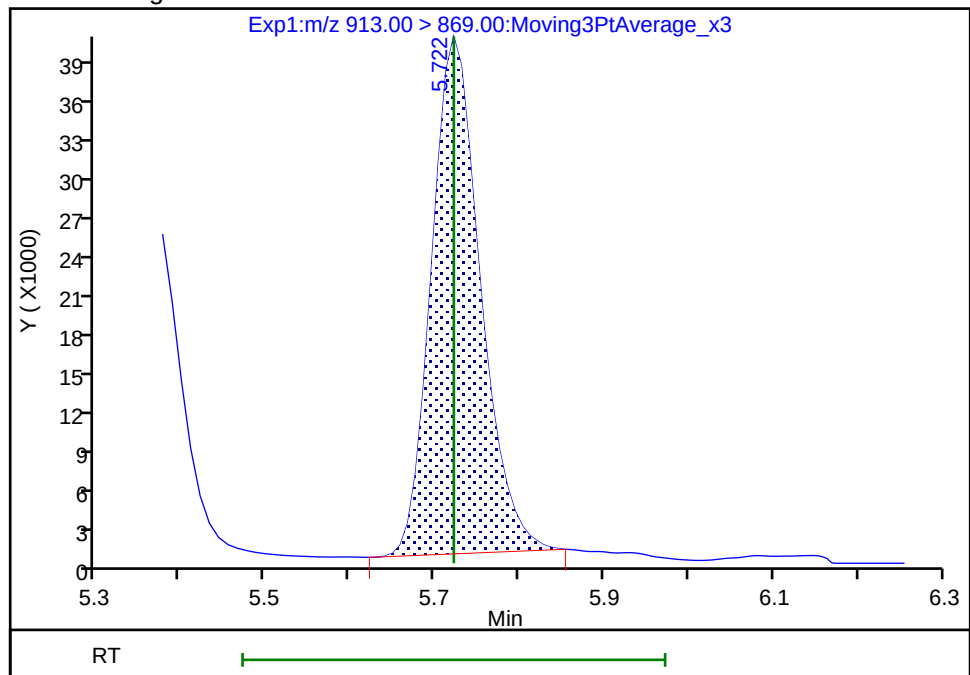
RT: 5.72
Area: 170572
Amount: 0.102523
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 159361
Amount: 0.100699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Nov-2022 14:46:15 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:34 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:05:27

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	2.077	2.076	0.001	0.601	2637410	1.23		98.3	11854	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	1137760	0.5229		105	108	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.691	2052396	1.26		100	3508	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	929016	0.5192		104	24.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.694	2040575	1.15		98.8	334958	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.414	2.400	0.014	1.006	899900	0.4481	Target=2.14	101	1321	
298.90 > 99.00	2.414	2.400	0.014	1.006	430748		2.09(1.07-3.21)	101	317	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	229433	0.4862		104	2008	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.701	2.689	0.012	0.781	178810	1.14		97.6	203	
D 7 13C2 PFHxA										
315.00 > 270.00	2.738	2.725	0.013	0.792	2177304	1.27		102	5404	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.000	992048	0.5227	Target=13.44	105	212	M
313.00 > 119.00	2.738	2.725	0.013	1.000	70446		14.08(6.72-20.15)	105	109	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.738	2.737	0.001	0.883	837304	0.5028	Target=2.98	107	1270	M
349.00 > 99.00	2.738	2.737	0.001	0.883	277034		3.02(1.49-4.47)	107	689	

D 64 13C3 HFPO-DA

287.00 > 169.00 2.847 2.835 0.012 0.824 378942 1.25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.000	174879	0.5463		109	738	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.897	1474490	1.14		96.4	2992	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.099	3.088	0.011	1.000	680406	0.4835	Target=3.57	106	613	M
399.00 > 99.00	3.099	3.088	0.011	1.000	185398		3.67(1.78-5.35)	106	227	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.099	3.099	0.0	0.897	2150118	1.22		97.6	2578	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1003322	0.5357	Target=3.93	107	220	
363.00 > 169.00	3.099	3.099	0.0	1.000	251672		3.99(1.96-5.89)	107	546	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	2408962	0.5050	Target=3.08	107	2523	M
377.00 > 85.00	3.132	3.132	0.0	0.832	760123		3.17(1.54-4.62)	107	909	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.995	247623	1.14		96.1	604	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	235479	0.5227		110	570	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	616490	0.5096	Target=5.16	107	2611	
449.00 > 99.00	3.439	3.439	0.0	0.914	120467		5.12(2.58-7.74)	107	616	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	0.997	2474245	1.25		99.9	3212	
* 62 13C2 PFOA										
415.00 > 370.00	3.457	3.448	0.009		2392397	1.25			3521	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.457	3.448	0.009	1.003	1110144	0.5246	Target=2.82	105	82.7	
413.00 > 169.00	3.457	3.448	0.009	1.003	391263		2.84(1.41-4.23)	105	806	
D 18 13C4 PFOS										M
503.00 > 80.00	3.764	3.764	0.0	1.089	1035061	1.18		98.6	2361	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.774	3.764	0.010	1.003	471879	0.4480	Target=5.01	96.5	102	M
499.00 > 99.00	3.764	3.764	0.0	1.000	103252		4.57(2.50-7.51)	96.5	102	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.094	2379680	1.24		98.9	2665	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	1050495	0.5319	Target=8.49	106	218	
463.00 > 169.00	3.783	3.783	0.0	1.000	118713		8.85(4.25-12.74)	106	803	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	1190983	0.4926		106	2626	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	390435	0.4911	Target=2.60	102	2933	
549.00 > 99.00	4.061	4.050	0.011	1.079	149046		2.62(1.30-3.90)	102	1506	
D 23 13C2 PFDA										M
515.00 > 470.00	4.082	4.081	0.001	1.181	2334094	1.19		95.2	2867	M

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	4.093	4.081	0.012	1.003	1184639	0.5850	Target=10.03	117	511	
513.00 > 169.00	4.093	4.081	0.012	1.003	108172		10.95(5.02-15.05)	117	172	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.184	321045	1.21		101	876	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	222425	0.5131		107	1417	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	835408	0.5081		102	1225	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.201	1967036	1.22		97.8	2140	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.223	466044	1.17		93.3	922	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.239	4.228	0.011	1.003	183478	0.5604		112	288	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.332	4.331	0.001	1.151	325384	0.5183	Target=2.58	108	1654	
599.00 > 99.00	4.332	4.331	0.001	1.151	120718		2.70(1.29-3.86)	108	963	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.353	0.002	1.000	1004863	0.5589	Target=10.10	112	429	M
563.00 > 169.00	4.355	4.353	0.002	1.000	95565		10.51(5.05-15.15)	112	1035	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.355	4.353	0.002	1.260	2230172	1.24		99.3	2329	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.377	4.365	0.012	1.003	182262	0.5108		102	737	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.365	0.001	1.263	498173	1.27		101	956	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.455	4.454	0.001	1.184	1834007	0.4921		104	3964	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.591	0.011	1.000	1027352	0.5397	Target=7.41	108	64.0	
613.00 > 169.00	4.591	4.591	0.0	0.998	134691		7.63(3.70-11.11)	108	843	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.591	0.011	1.331	2245926	1.23		98.2	3386	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	125547	0.4819		100.0	653	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	135657	0.5107	Target=0.51	106	1367	M
699.00 > 99.00	4.776	4.776	0.0	1.269	264160		0.51(0.25-0.76)	106	1629	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.046	987678	0.5425	Target=5.40	109	72.4	M
663.00 > 169.00	4.813	4.804	0.009	1.046	186073		5.31(2.70-8.10)	109	641	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.012	0.0	1.000	113607	0.5327	Target=0.90	107	875	
713.00 > 219.00	5.002	5.012	-0.010	0.998	120383		0.94(0.45-1.35)	107	1031	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.450	1947280	1.23		98.4	2530	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.378	5.367	0.011	1.556	2348434	1.20		96.0	2289	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.000	978907	0.5496	Target=5.85	110	82.4	M
813.00 > 169.00	5.378	5.367	0.011	1.000	169718		5.77(2.93-8.78)	110	842	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.064	852104	0.5507	Target=6.30	110	86.6	M
913.00 > 169.00	5.722	5.722	0.0	1.064	133969		6.36(3.15-9.46)	110	557	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00015

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d

Injection Date: 18-Nov-2022 14:46:15

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

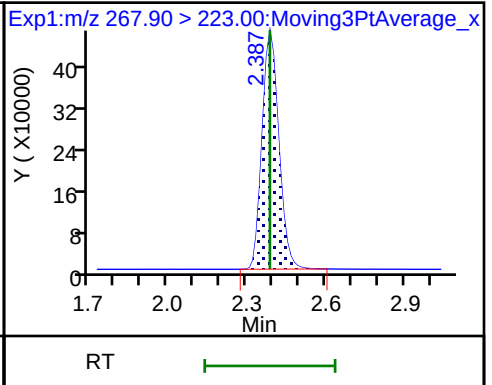
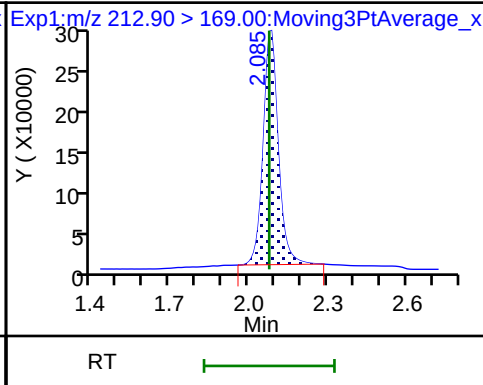
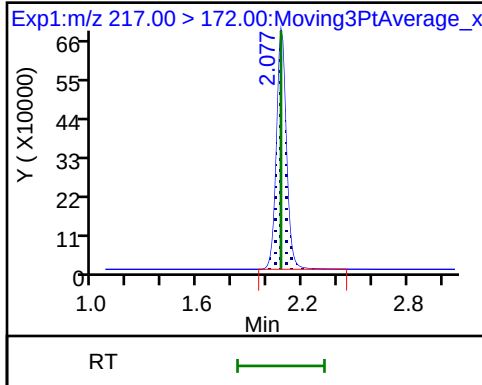
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

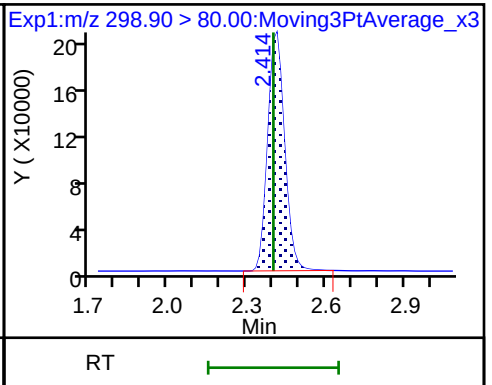
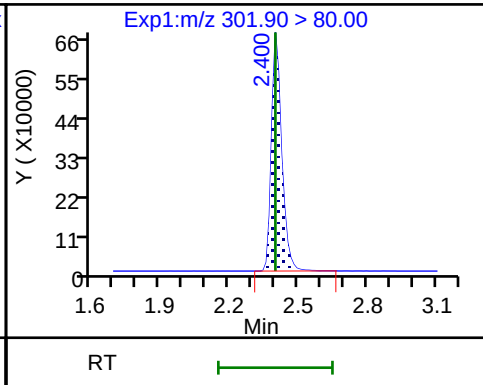
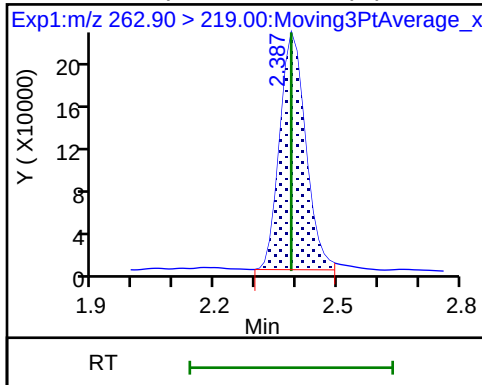
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

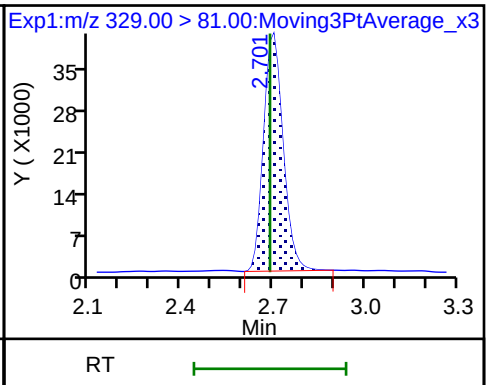
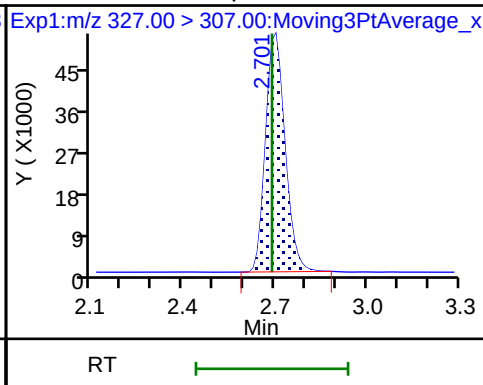
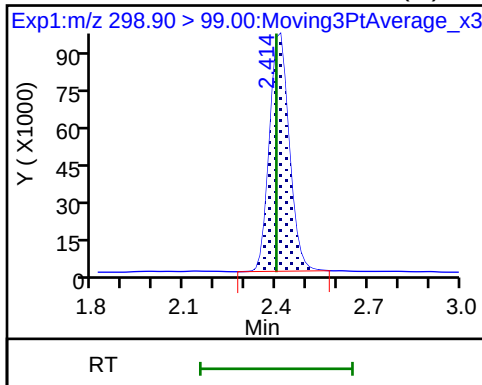
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

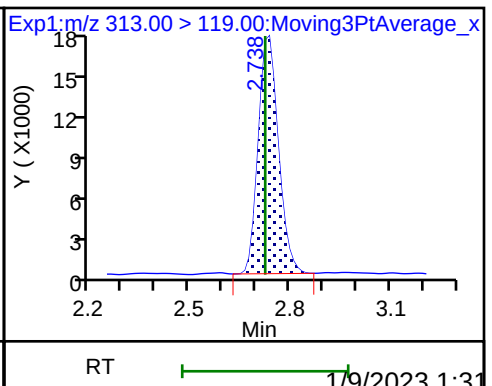
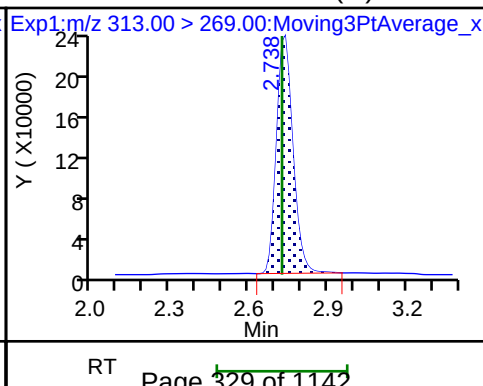
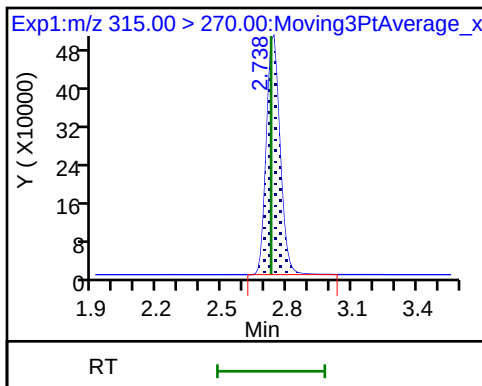
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

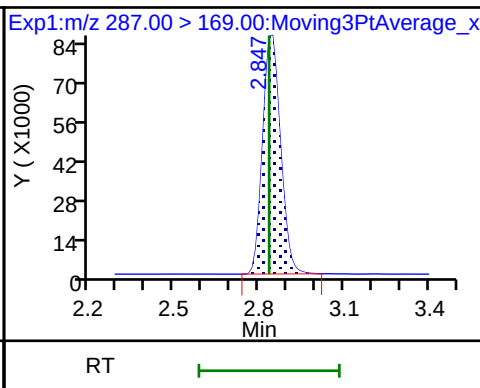
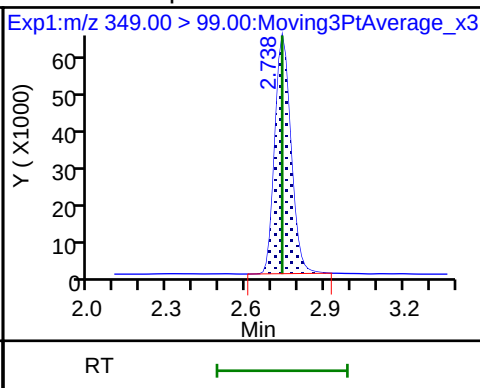
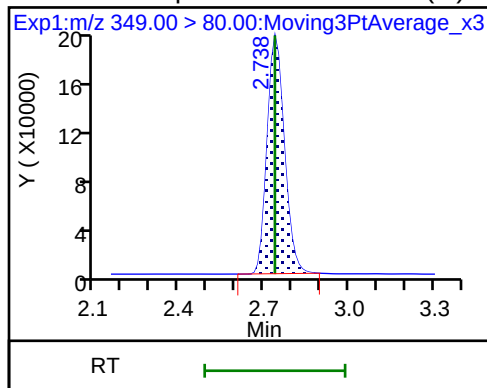
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

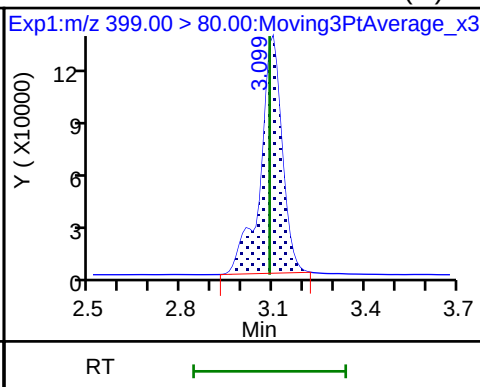
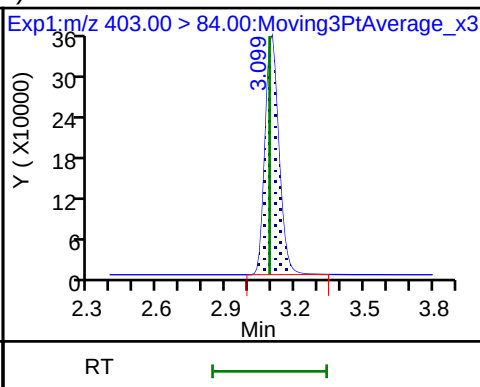
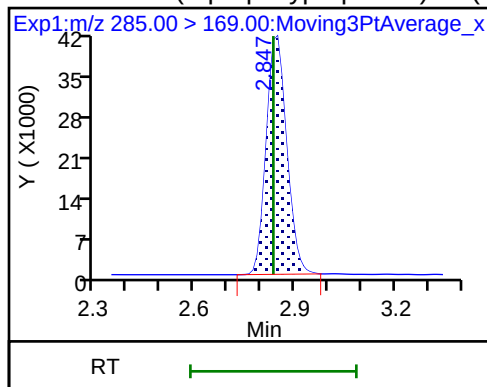
70 Perfluoropentanesulfonic acid

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS

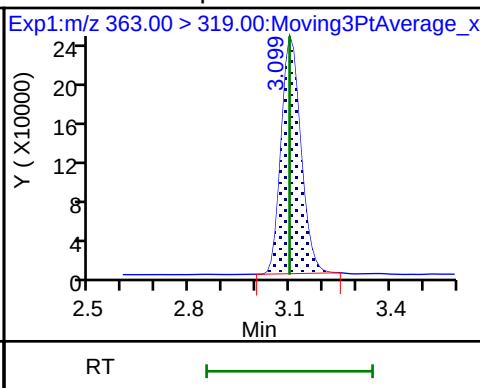
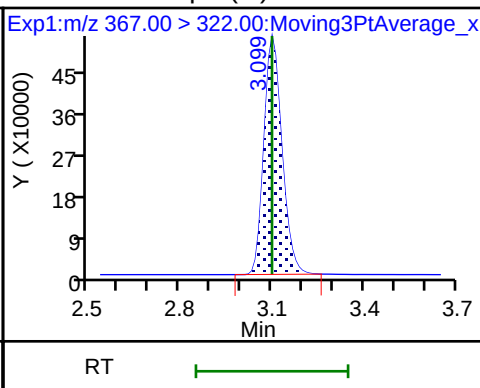
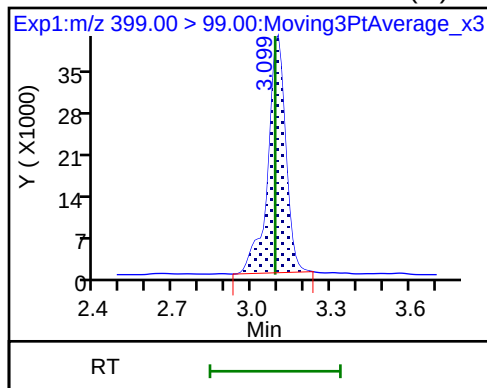
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA (M)

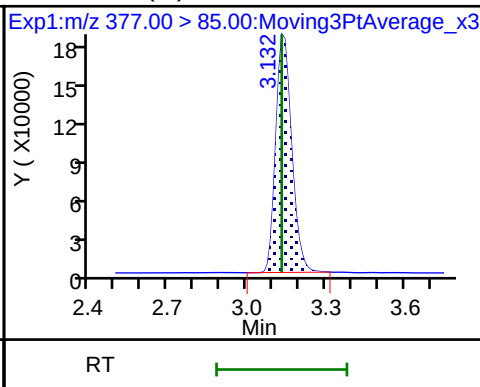
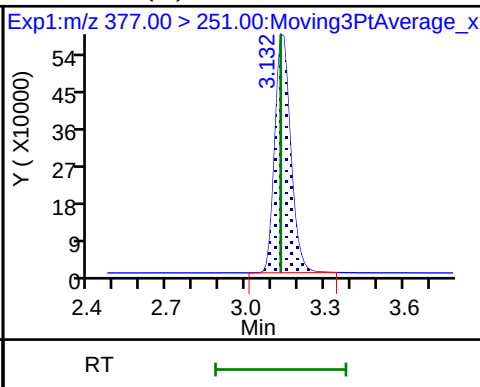
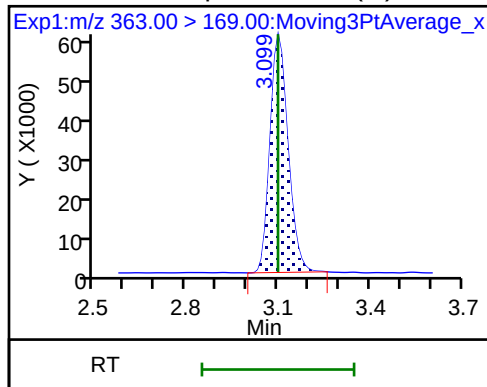
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

77 DONA (M)

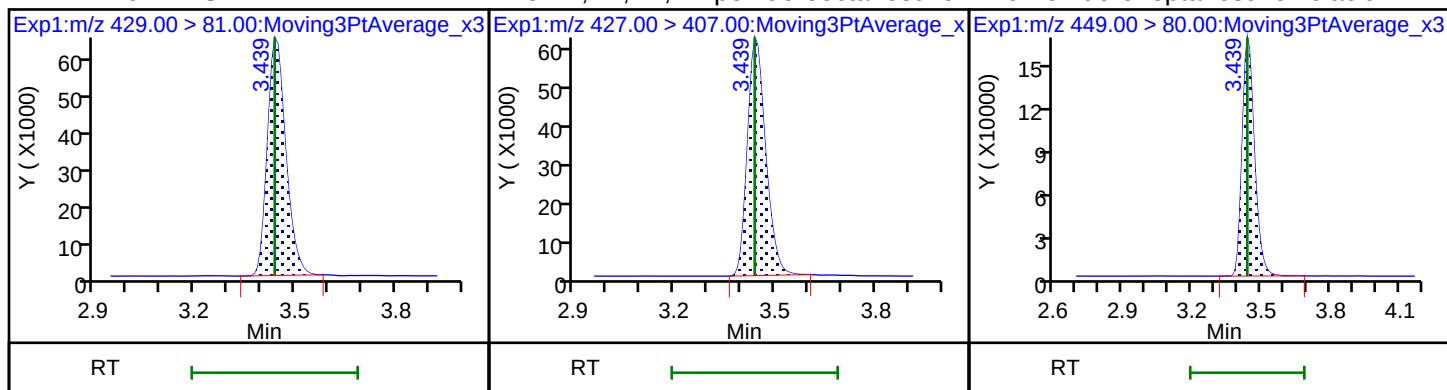
77 DONA (M)



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

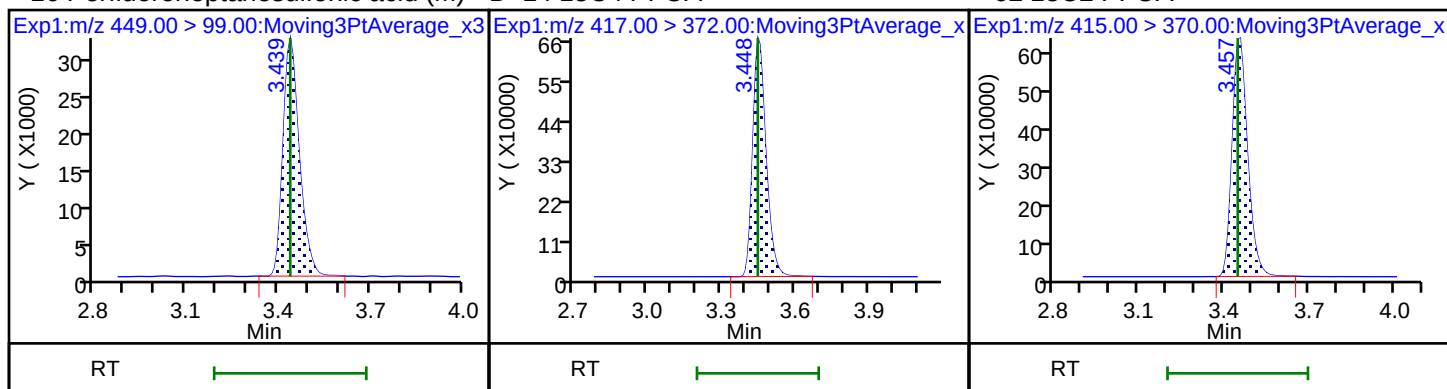
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

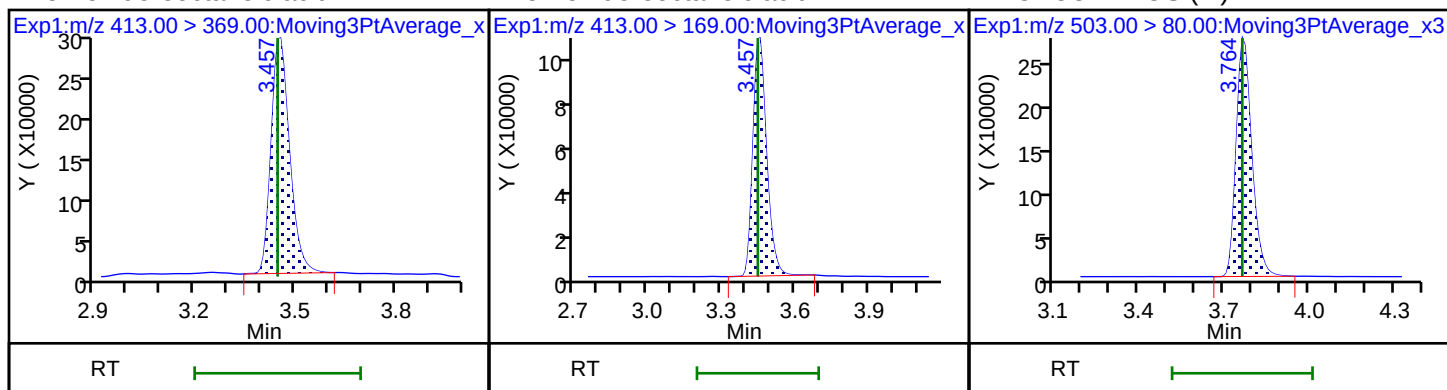
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

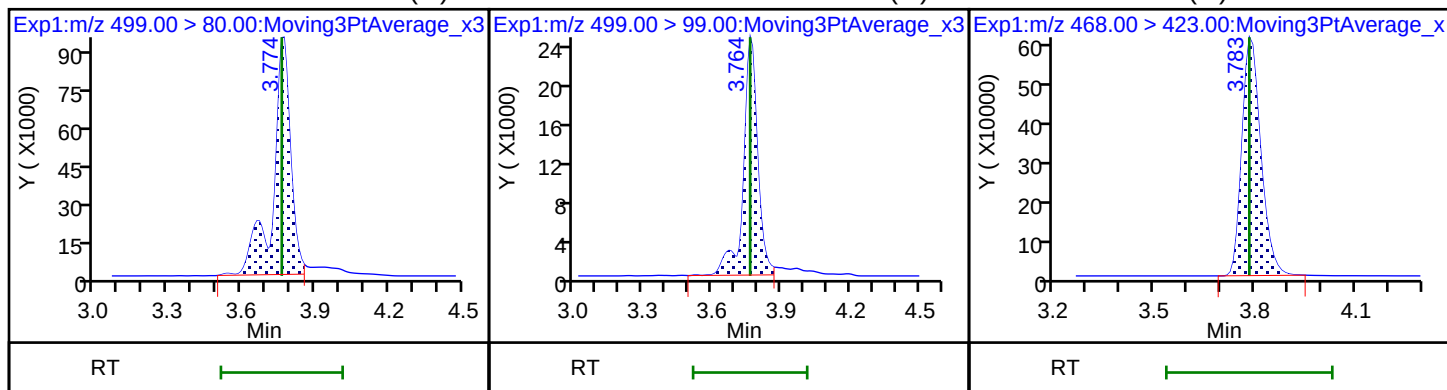
D 18 13C4 PFOS (M)

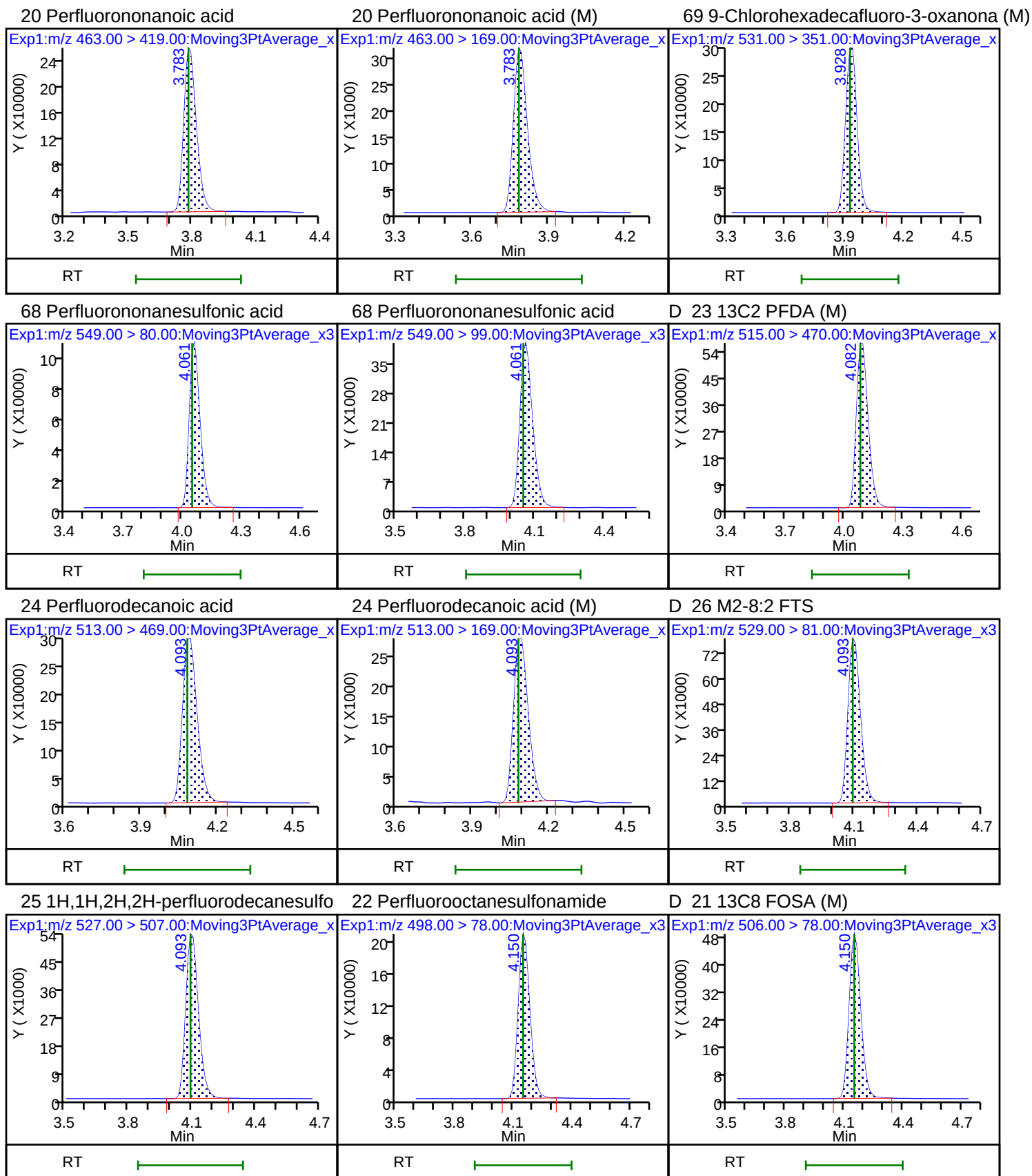


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA (M)

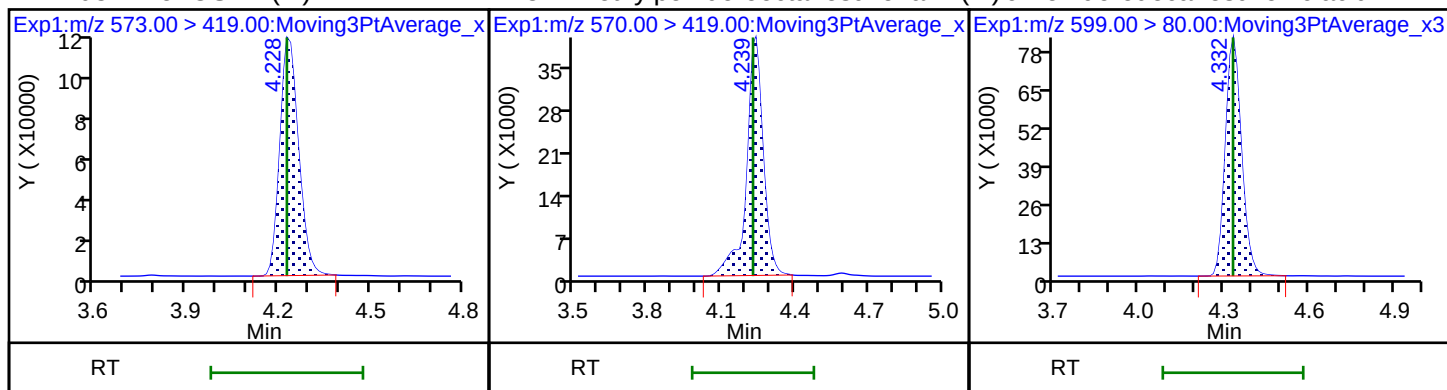




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

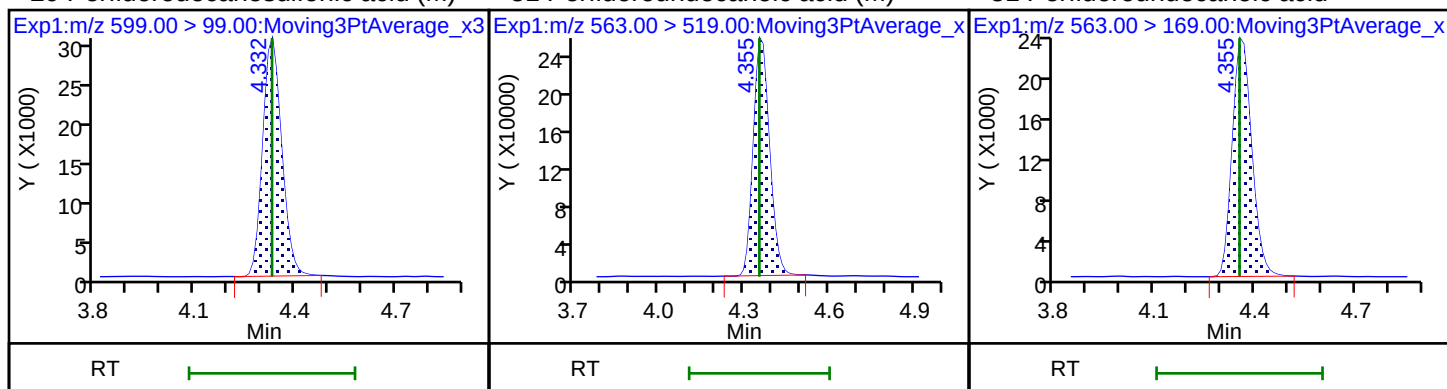
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

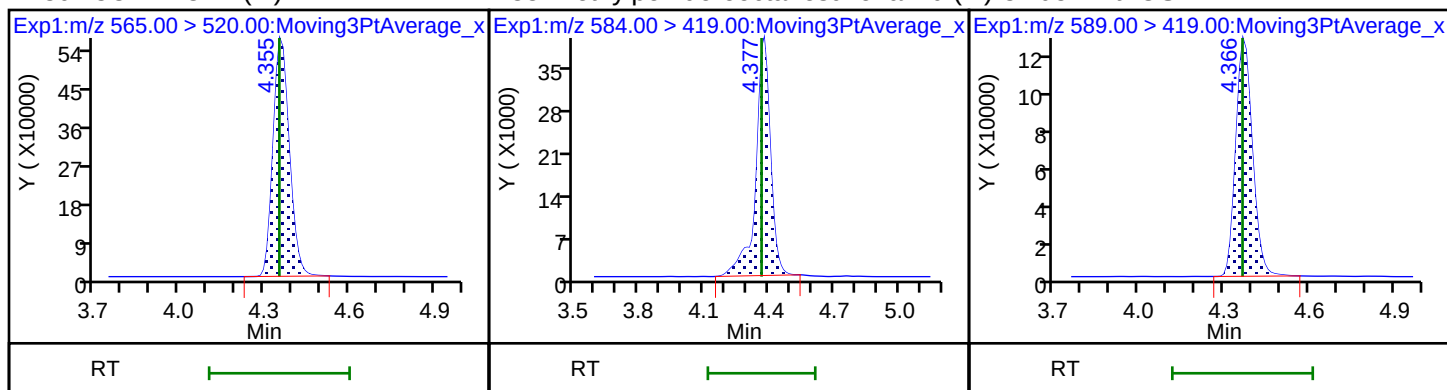
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

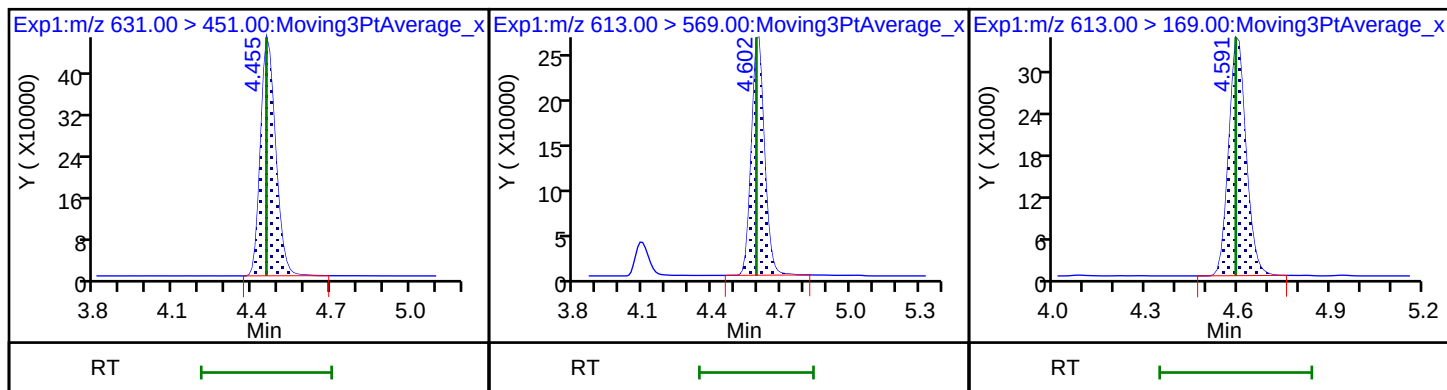
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

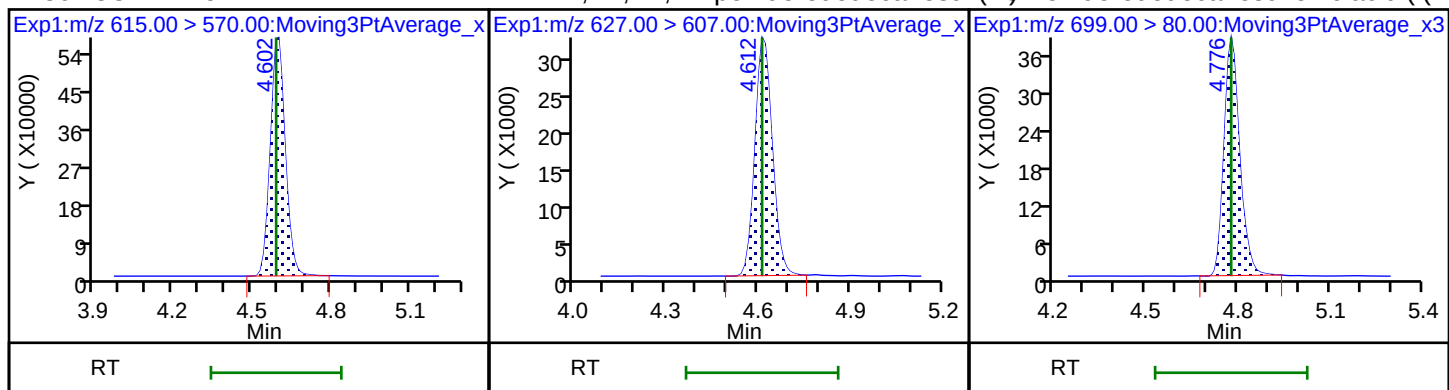
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



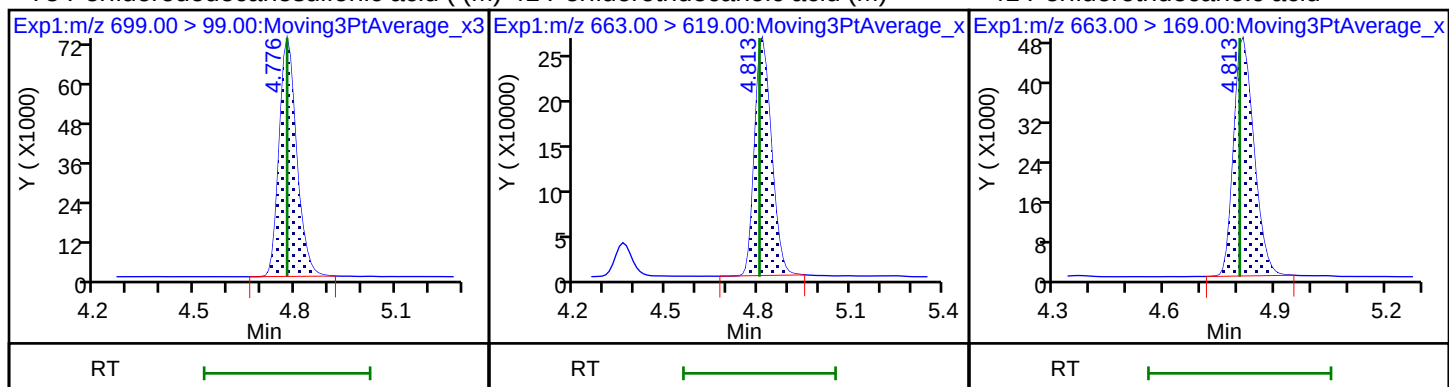
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

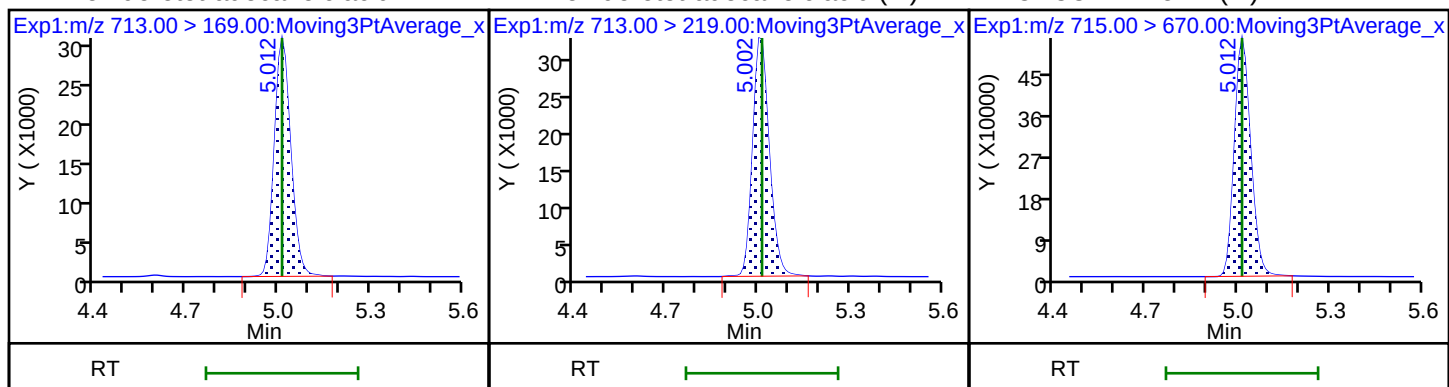
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

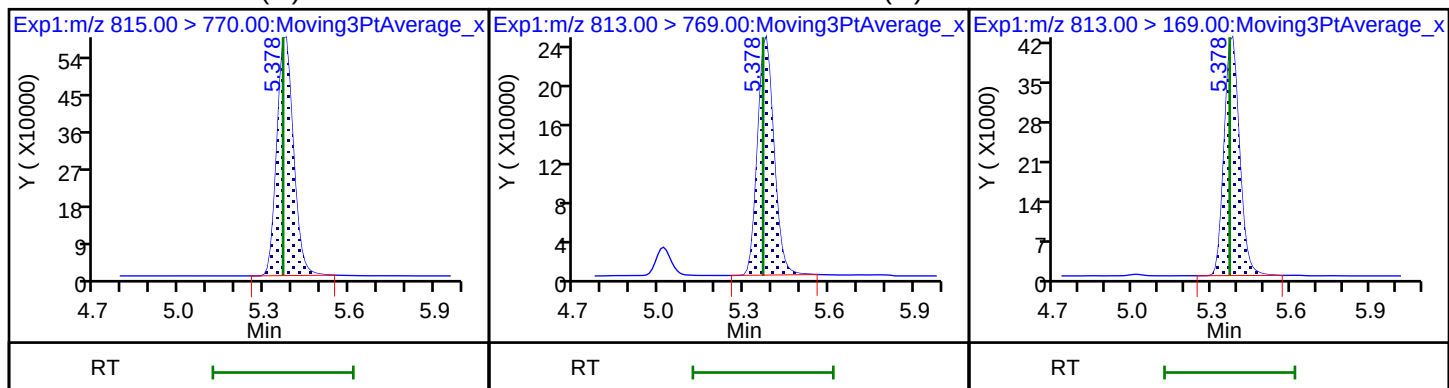
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

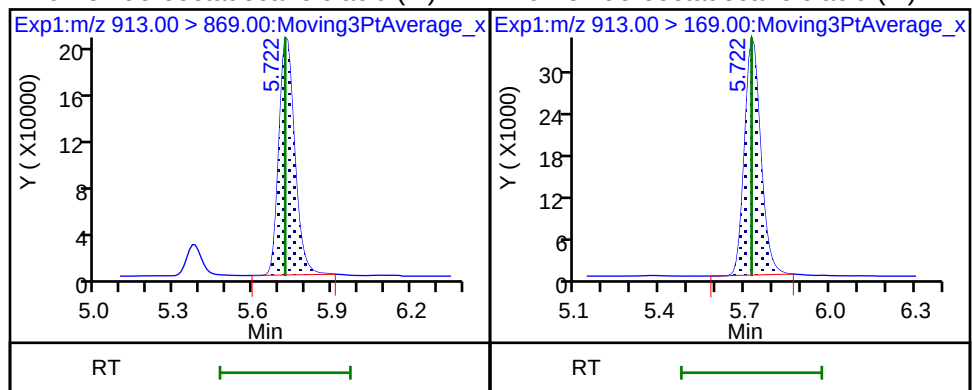
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

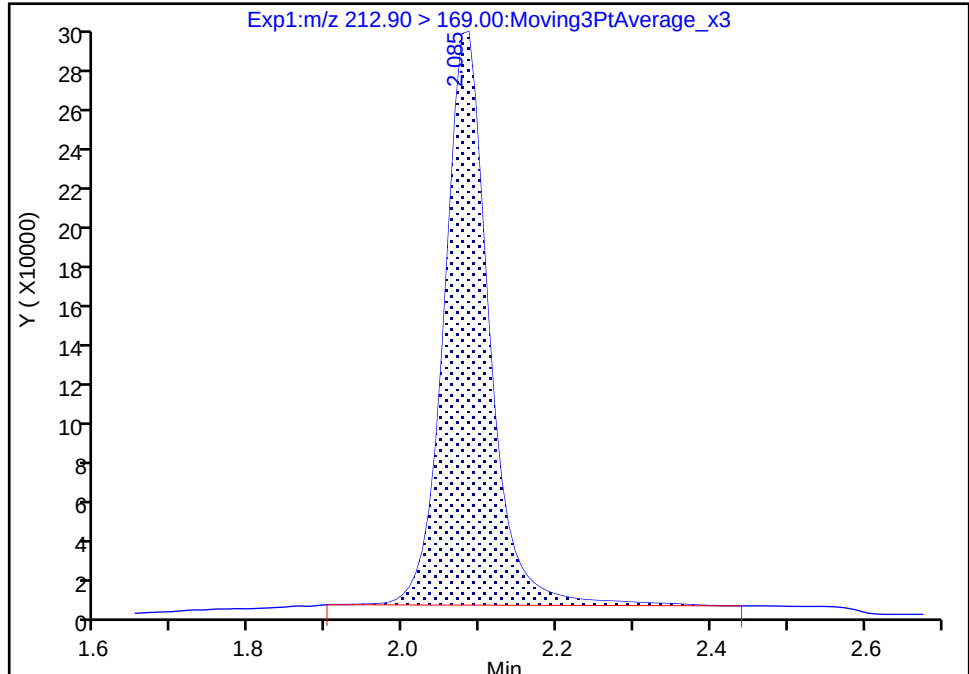
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

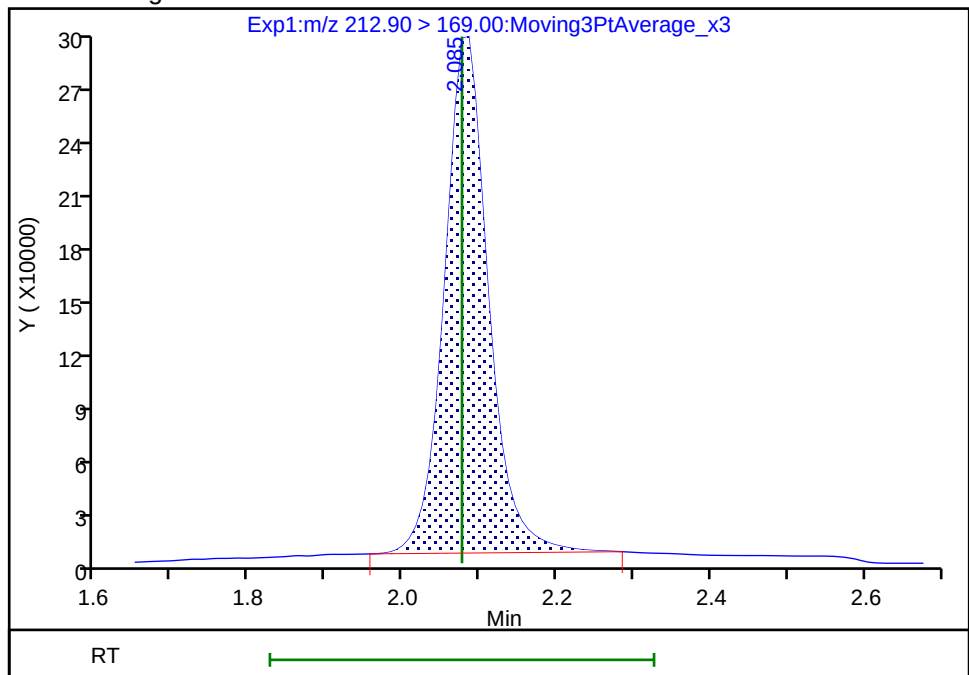
RT: 2.09
Area: 1168803
Amount: 0.489521
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1137760
Amount: 0.522928
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

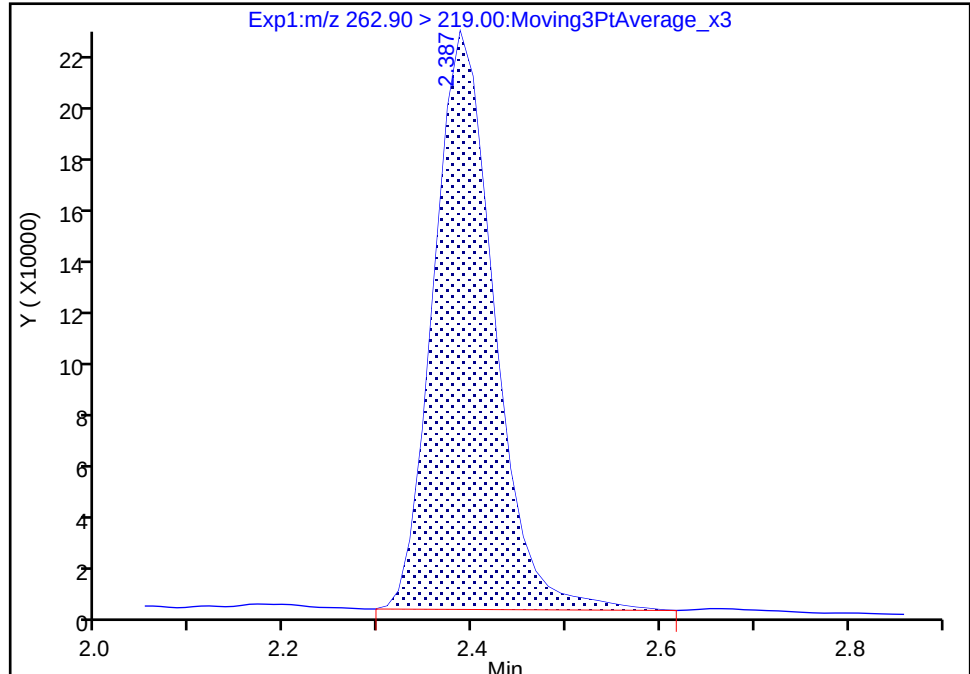
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

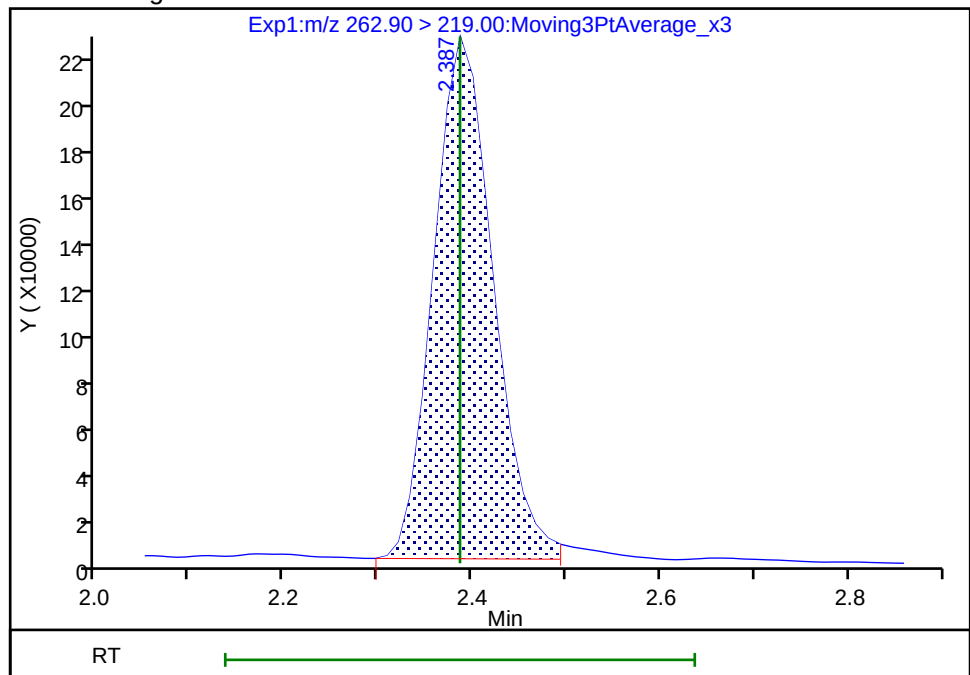
RT: 2.39
Area: 946379
Amount: 0.487855
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 929016
Amount: 0.519176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:58:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

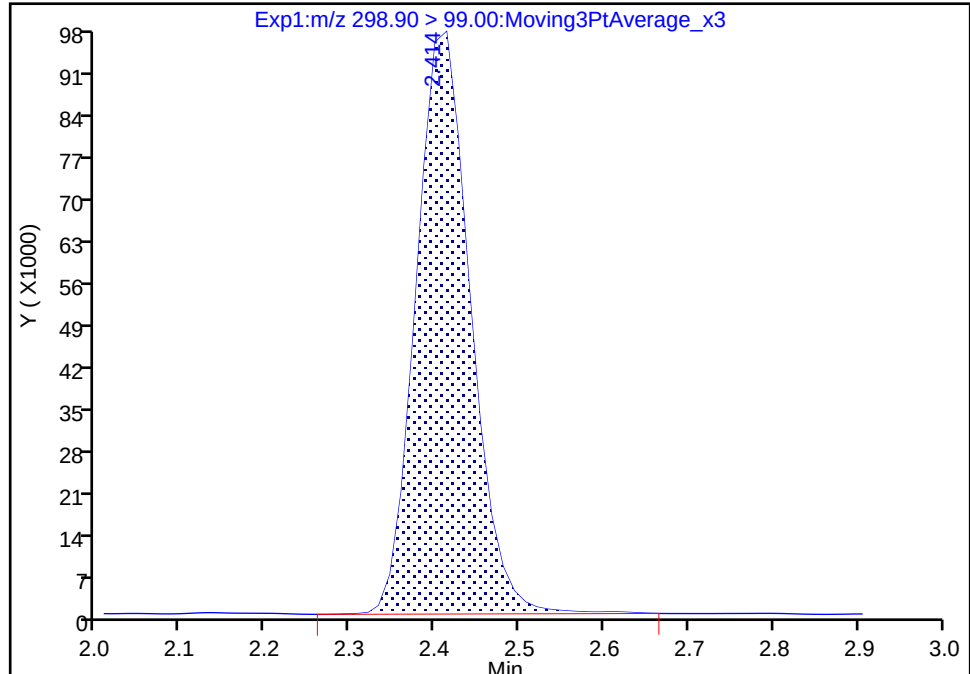
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

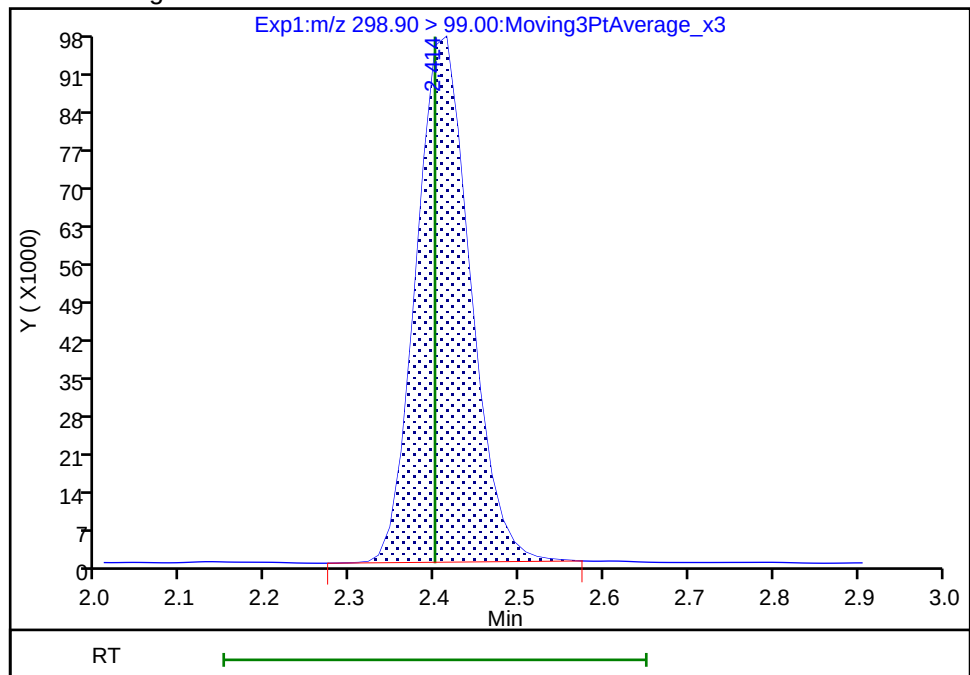
RT: 2.41
Area: 434508
Amount: 0.422187
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 430748
Amount: 0.448102
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

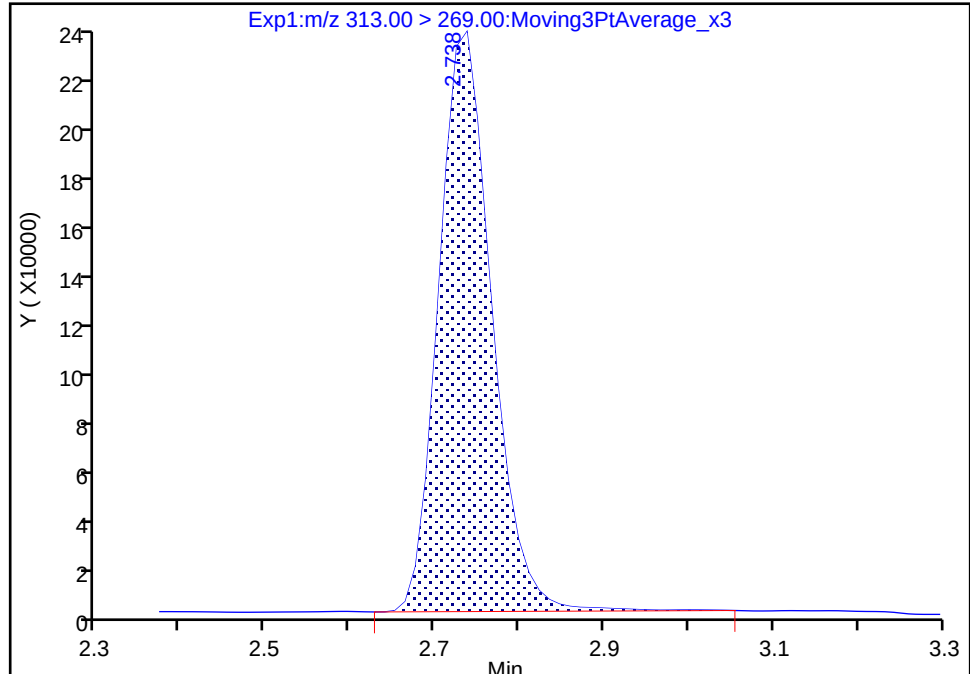
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

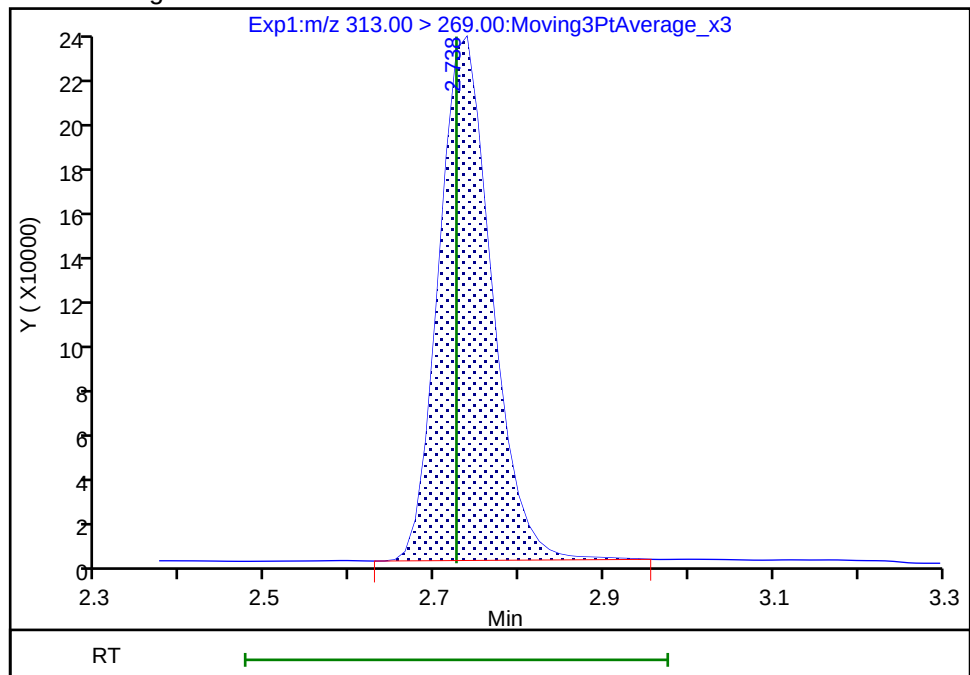
RT: 2.74
Area: 996443
Amount: 0.493667
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 992048
Amount: 0.522700
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

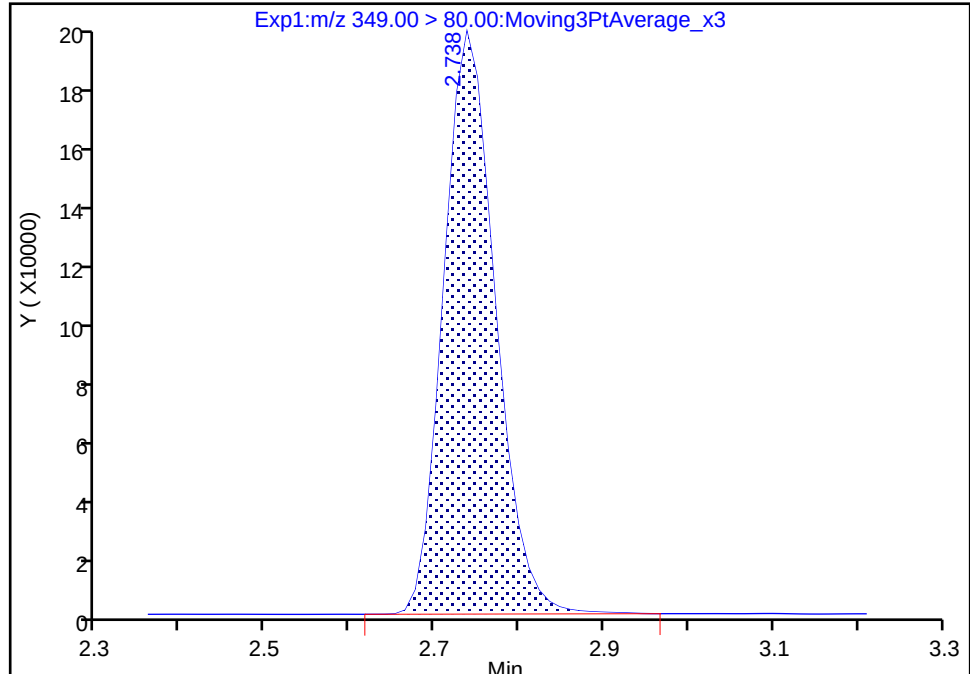
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

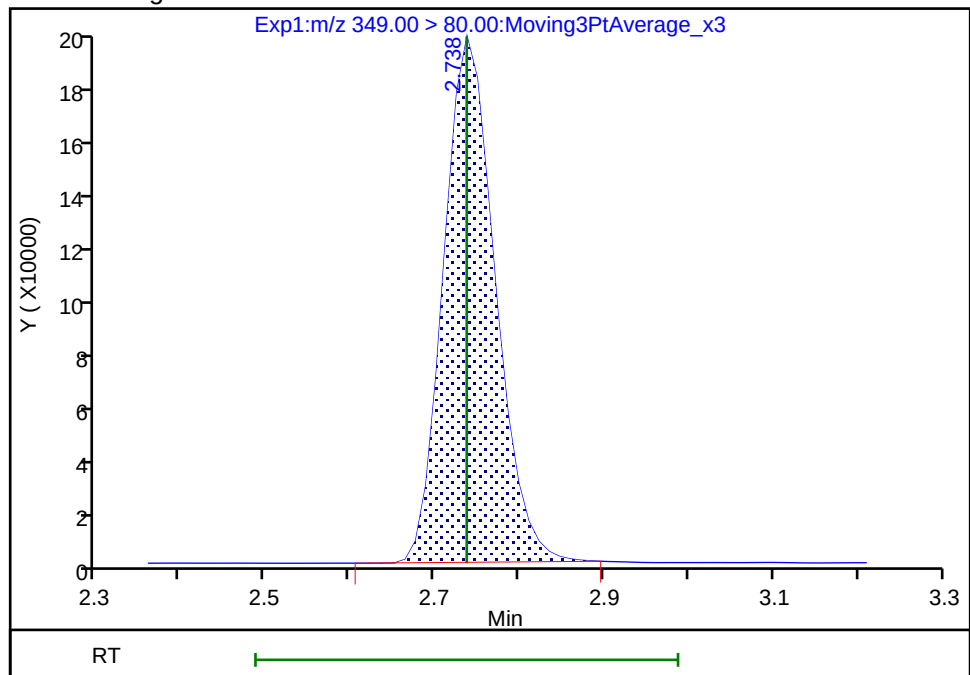
RT: 2.74
Area: 843222
Amount: 0.480975
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 837304
Amount: 0.502827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 14:59:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

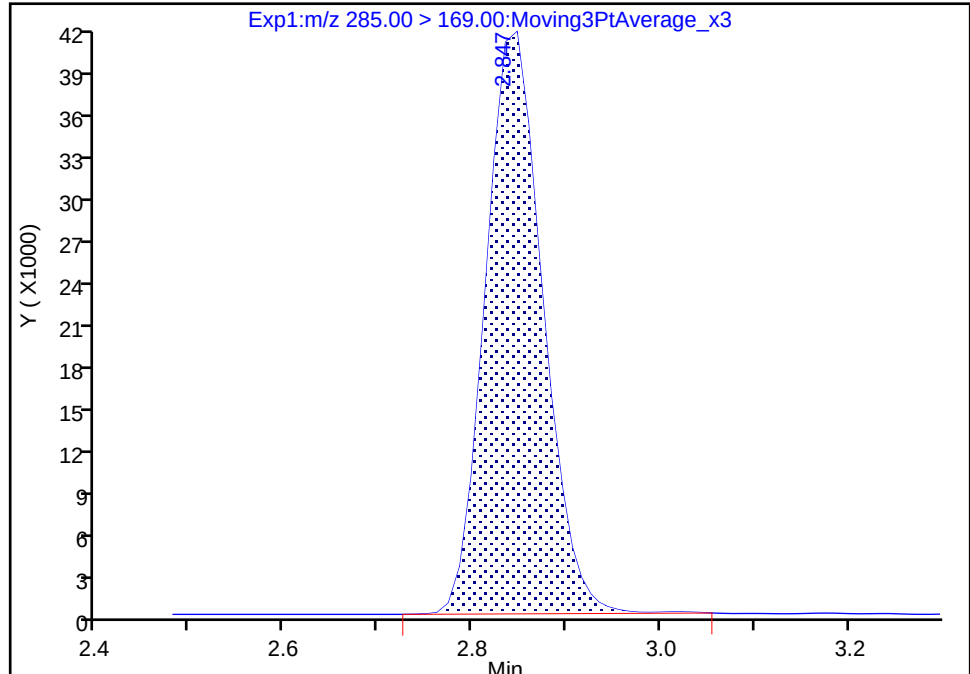
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d		
Injection Date:	18-Nov-2022 14:46:15	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	7

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

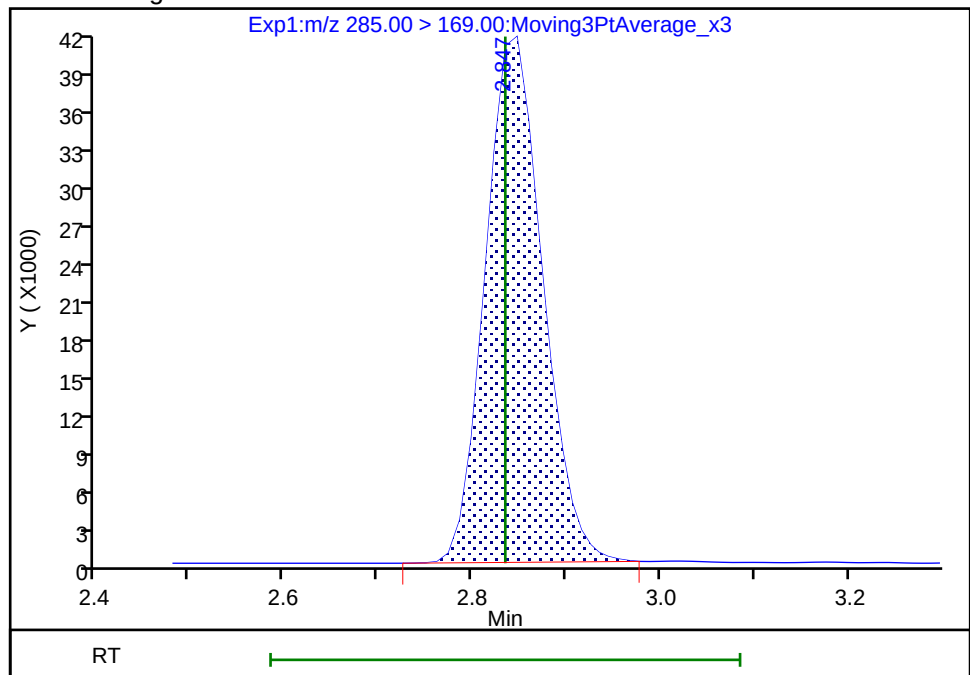
RT: 2.85
Area: 175711
Amount: 0.510805
Amount Units: ng/ml

Processing Integration Results



RT: 2.85
Area: 174879
Amount: 0.546316
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

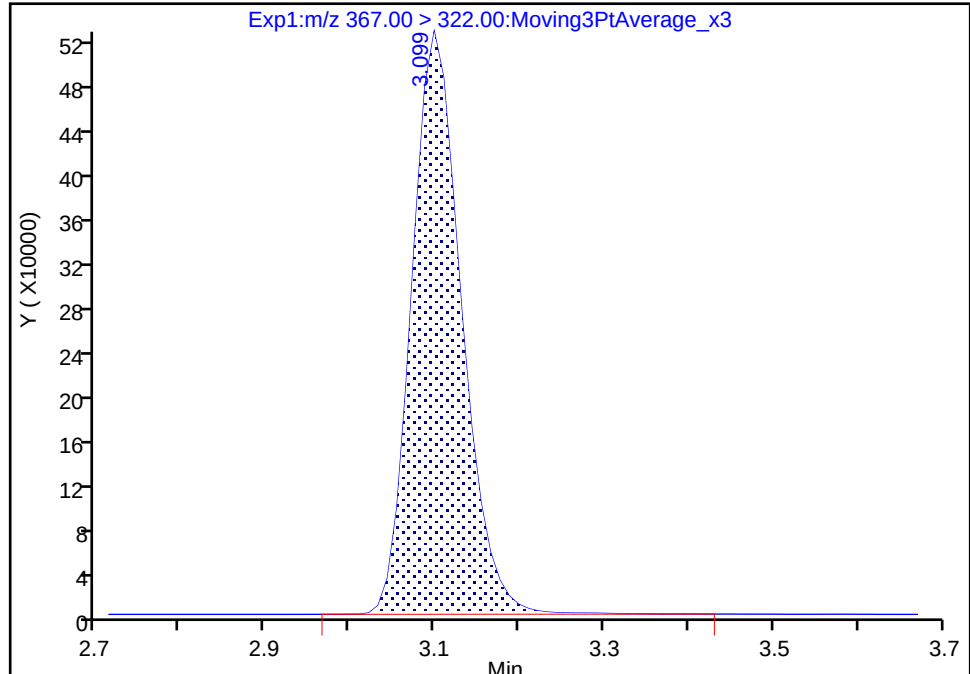
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

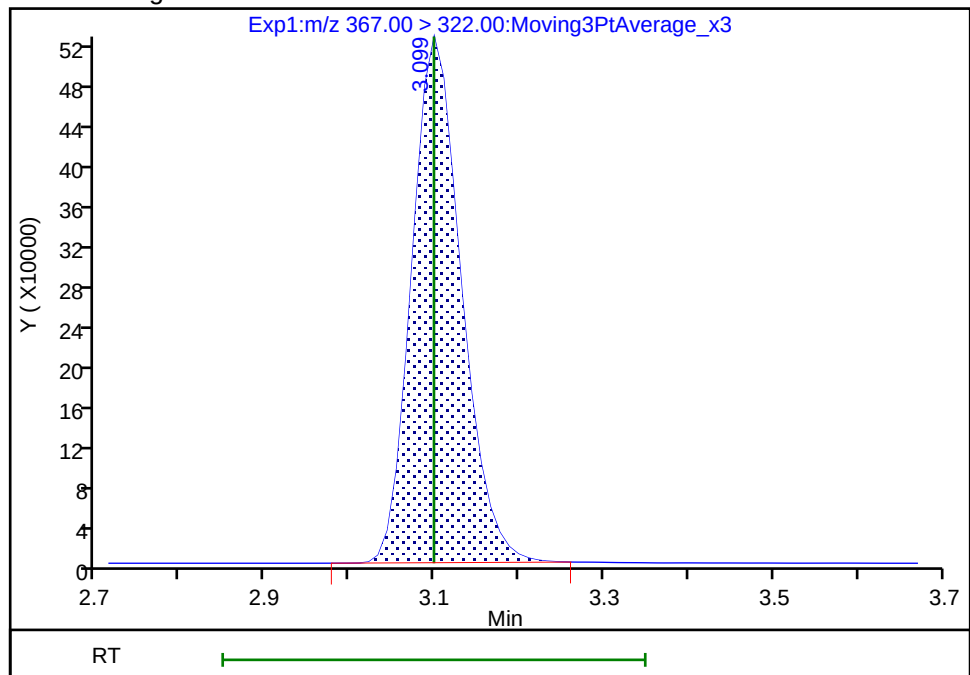
RT: 3.10
Area: 2162805
Amount: 1.248507
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 2150118
Amount: 1.220333
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

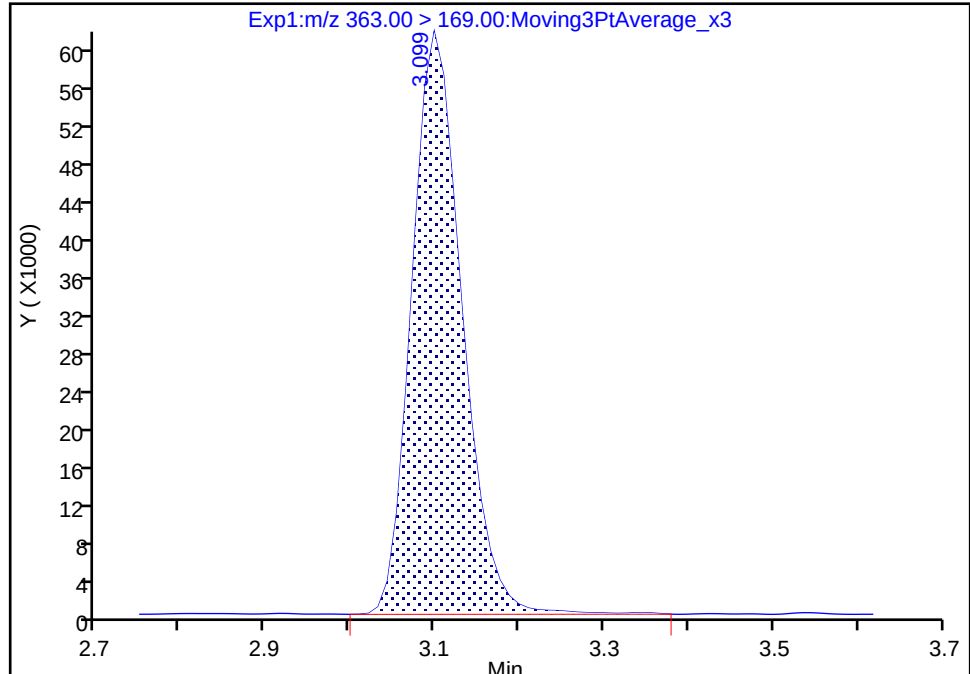
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

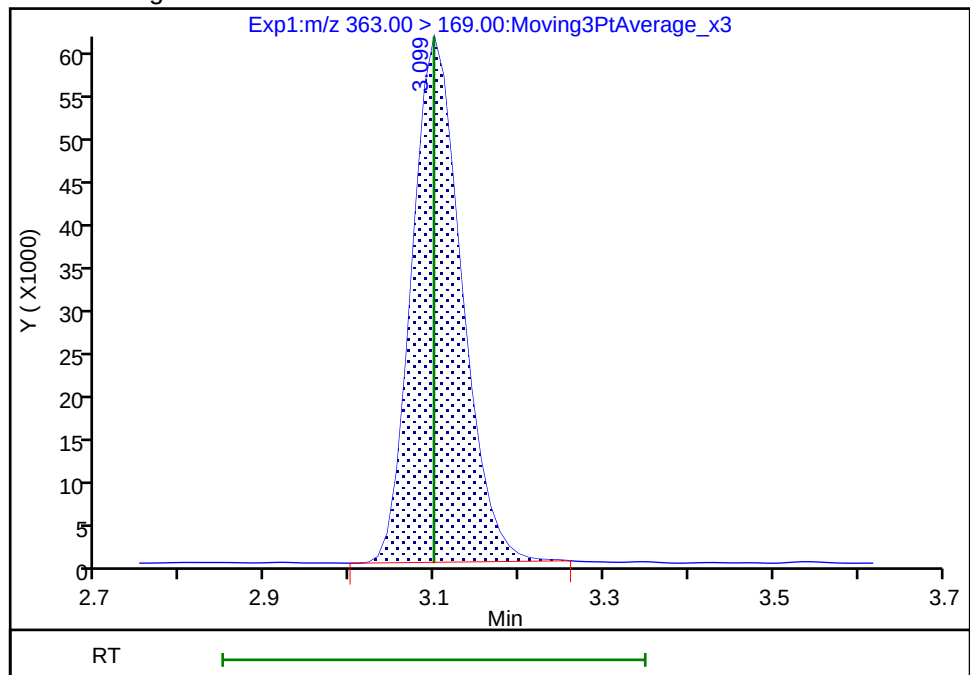
RT: 3.10
Area: 254758
Amount: 0.495820
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 251672
Amount: 0.535731
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

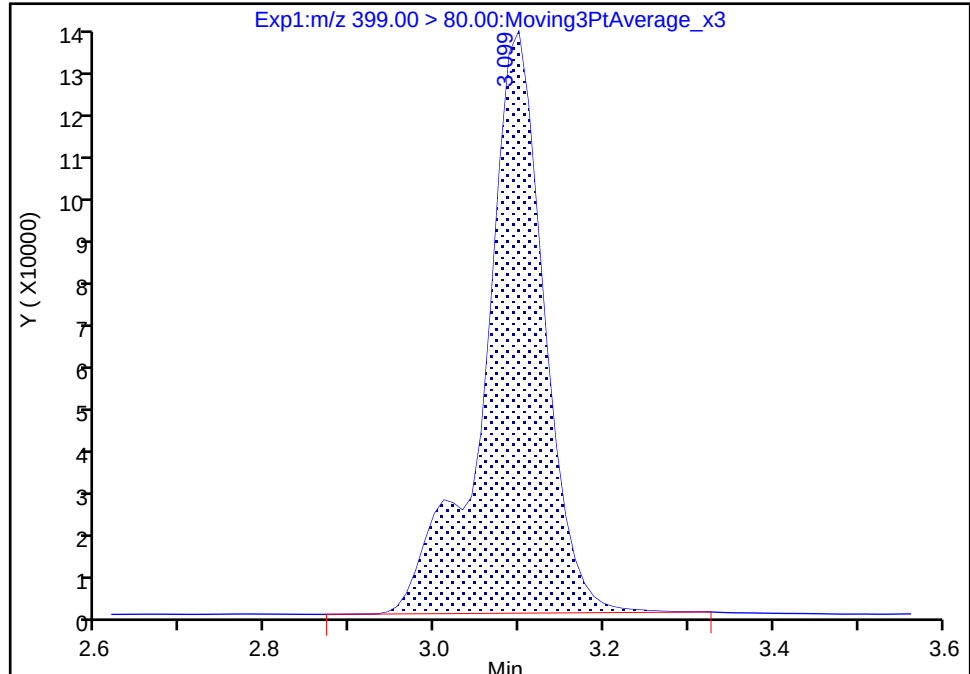
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

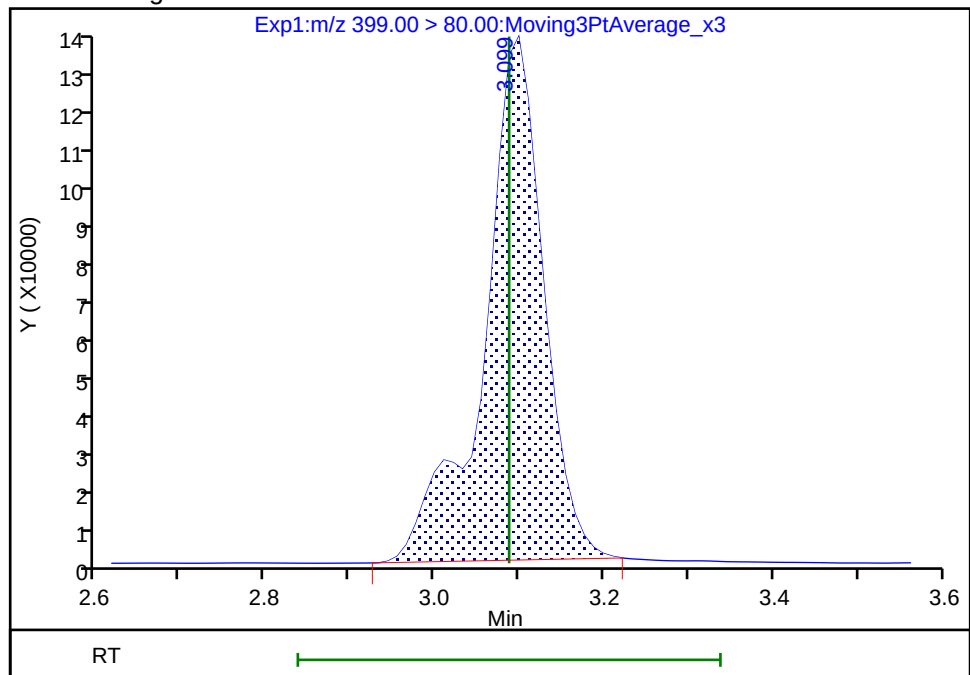
RT: 3.10
Area: 690915
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 680406
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

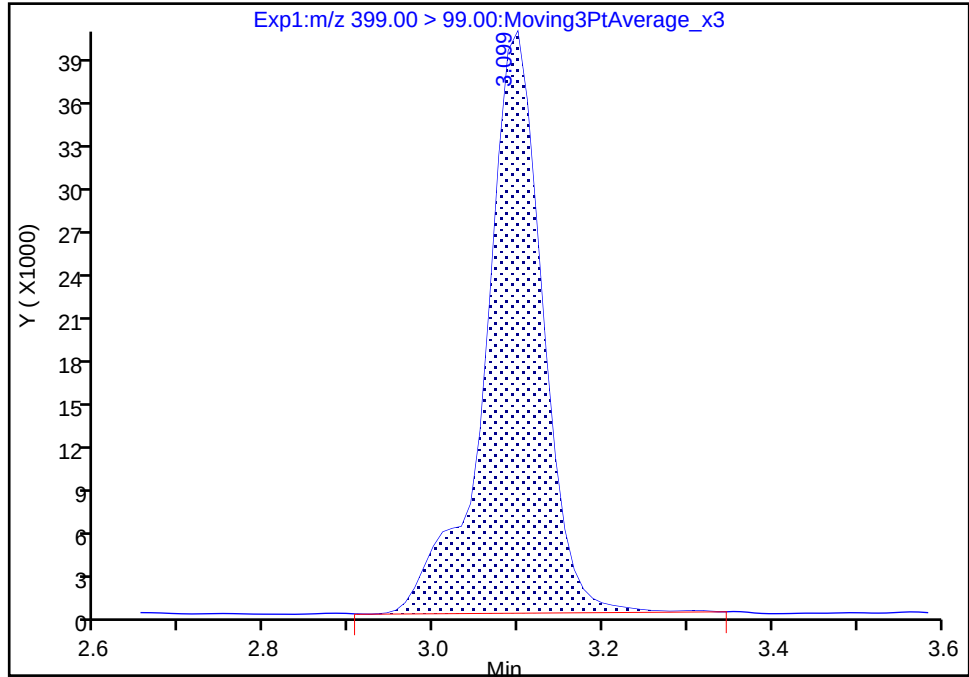
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

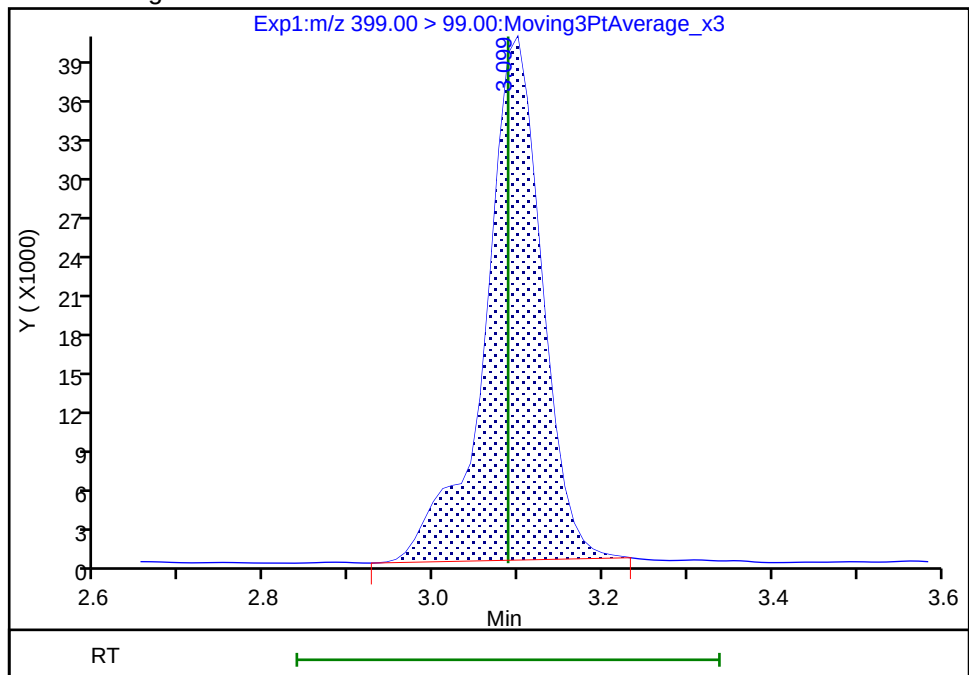
RT: 3.10
Area: 188640
Amount: 0.467335
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 185398
Amount: 0.483465
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

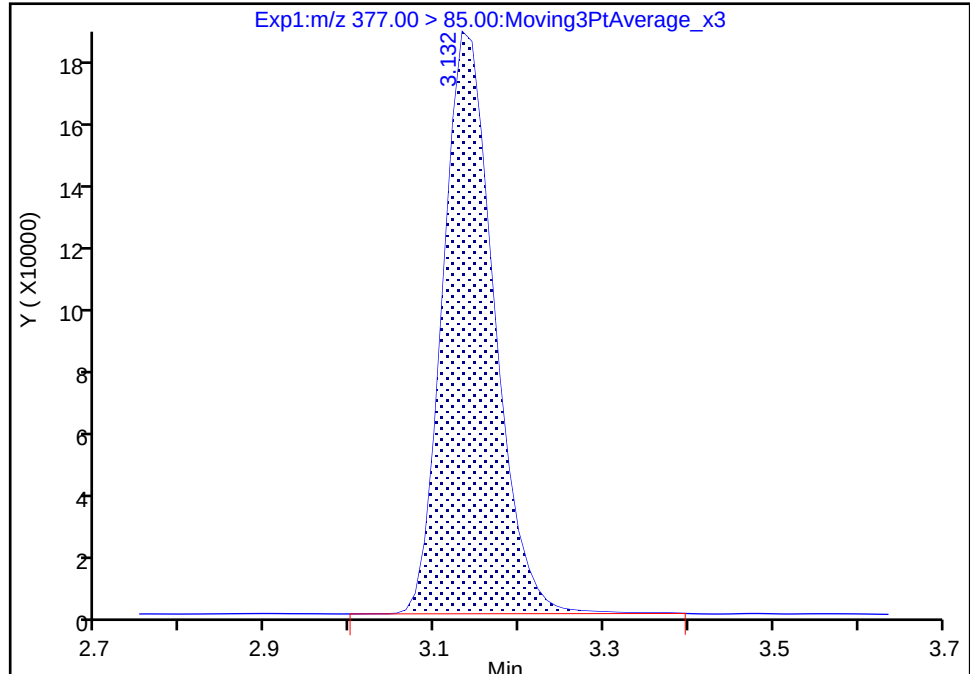
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

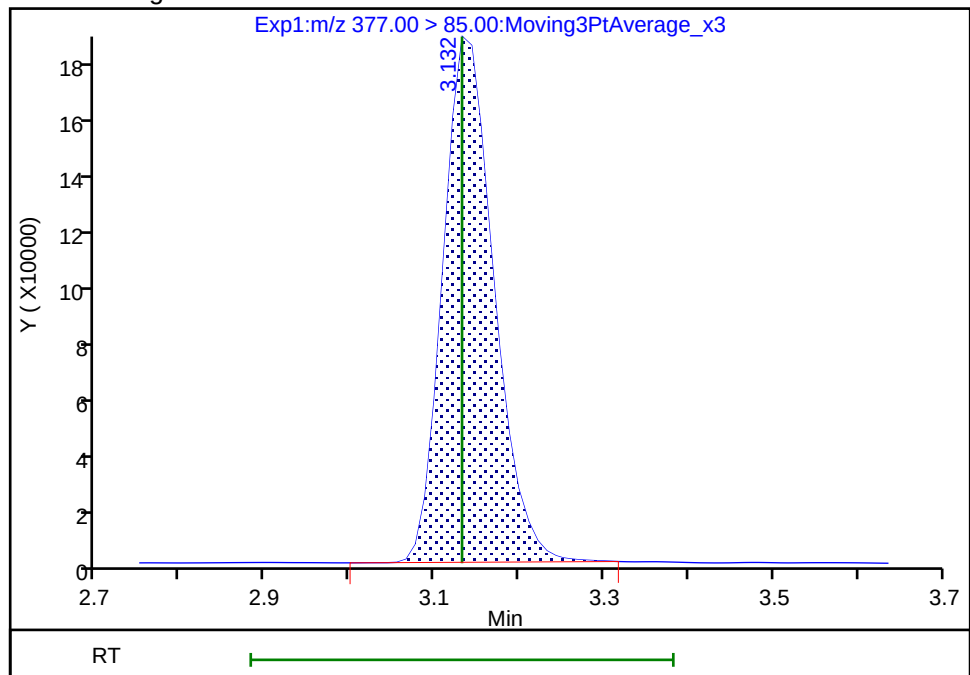
RT: 3.13
Area: 764336
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 760123
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

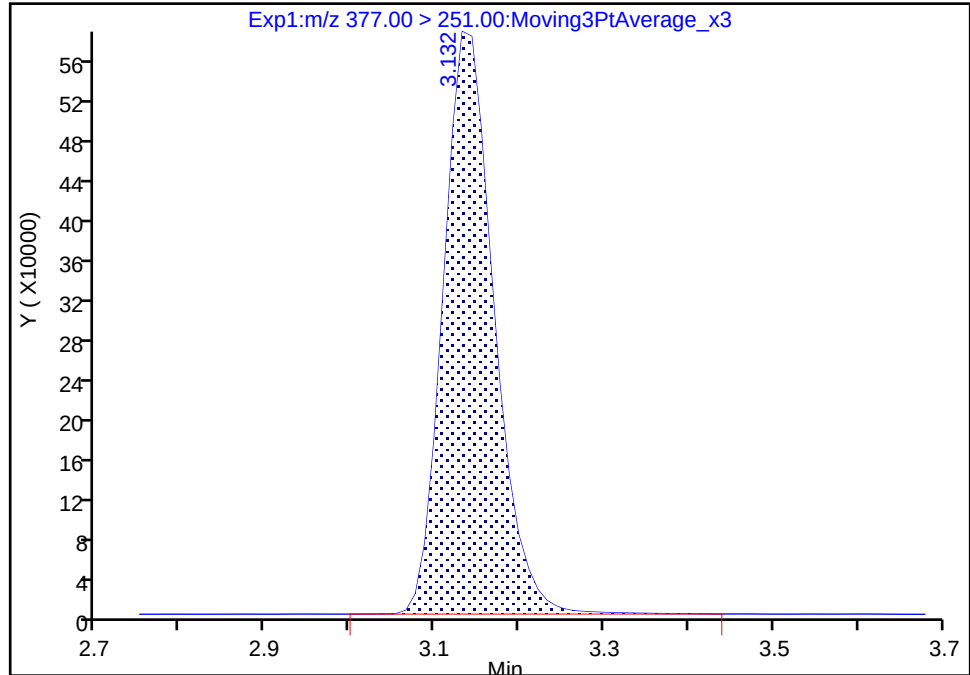
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

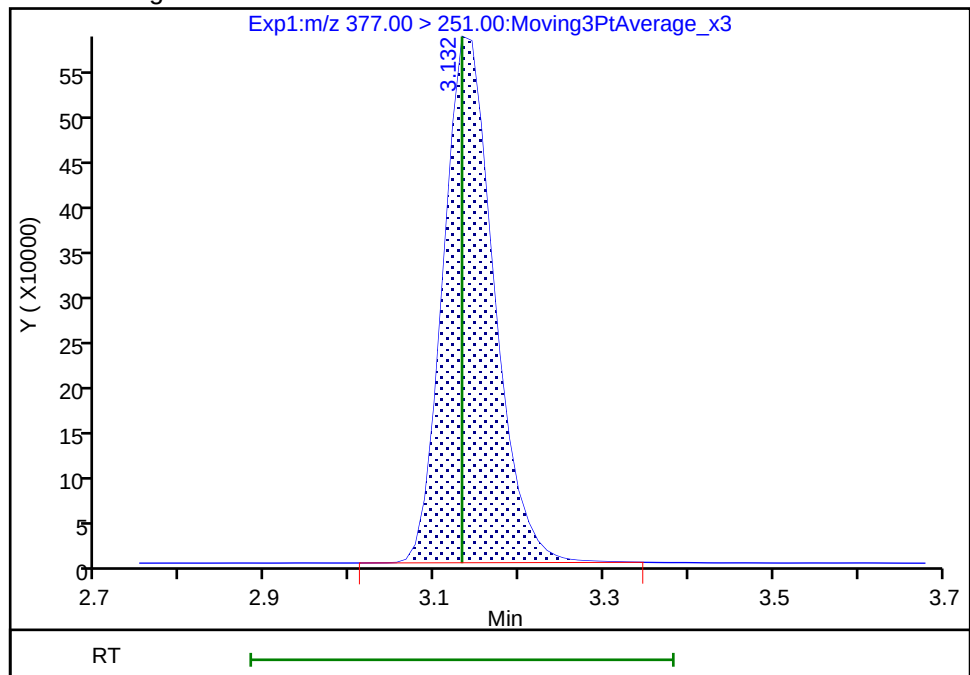
RT: 3.13
Area: 2417717
Amount: 0.467942
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 2408962
Amount: 0.505022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 347 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

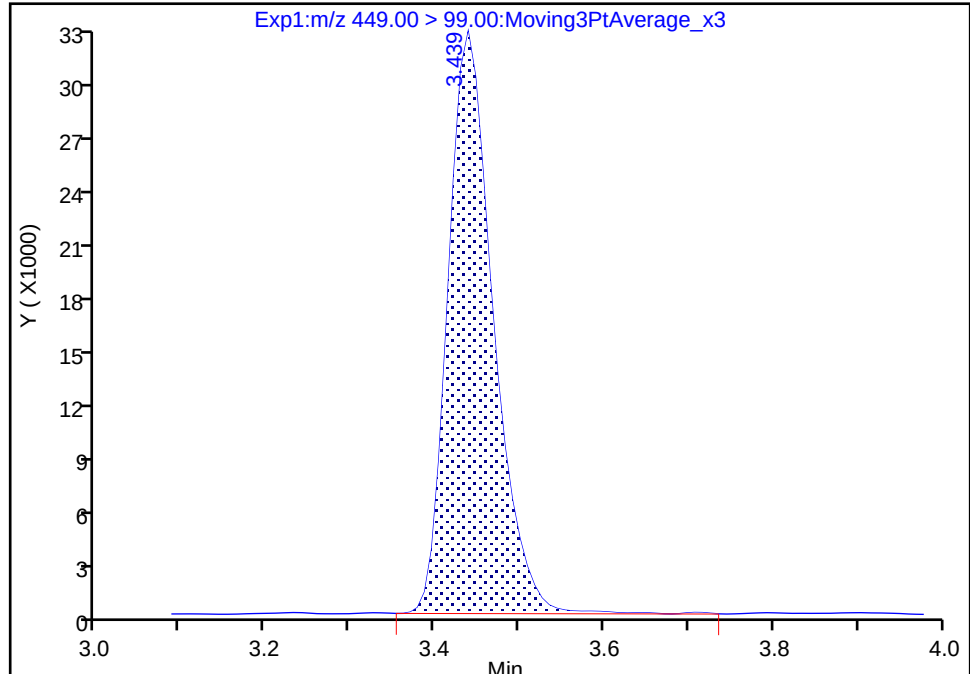
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

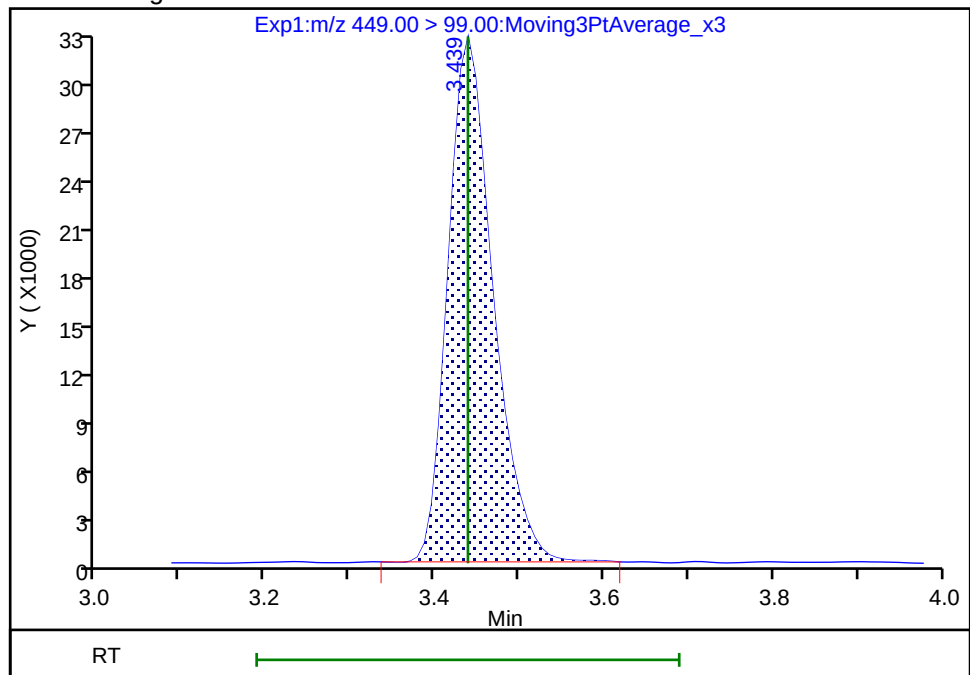
RT: 3.44
Area: 121485
Amount: 0.478403
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 120467
Amount: 0.509588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

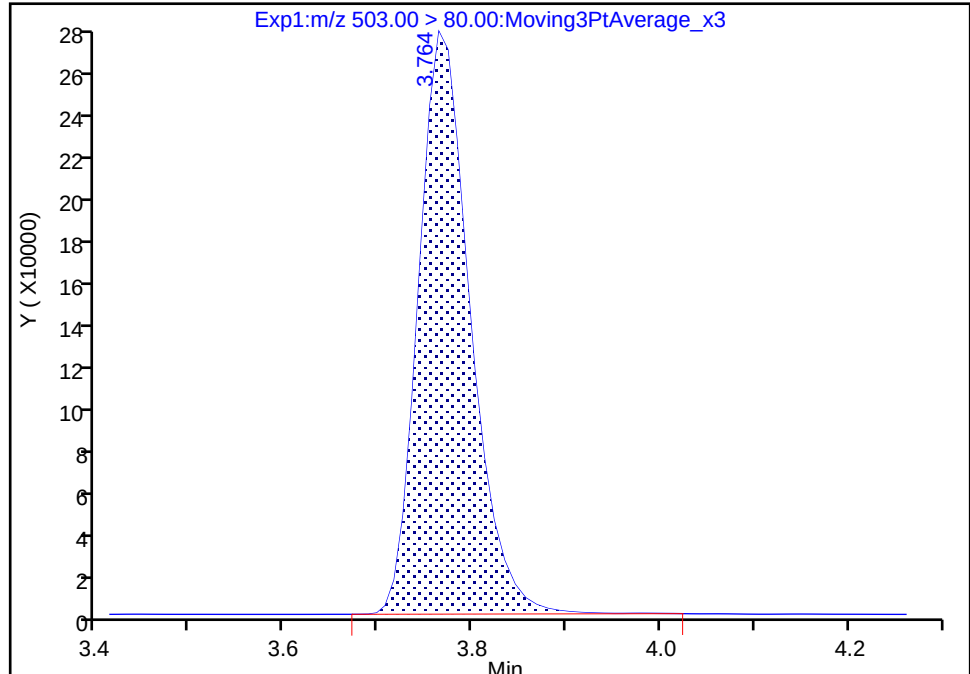
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

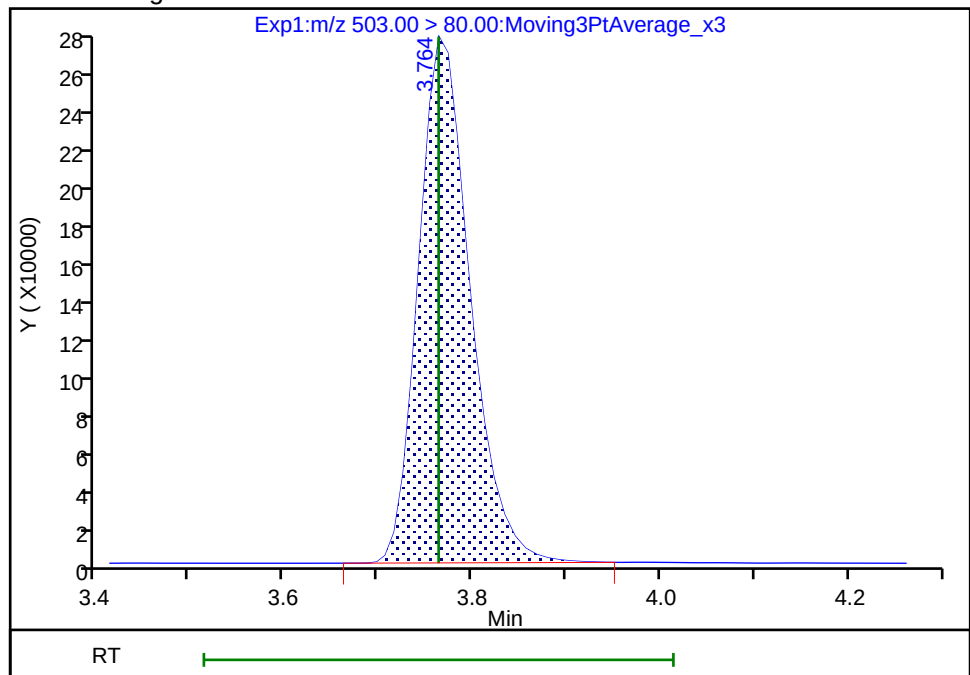
RT: 3.76
Area: 1037255
Amount: 1.197303
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1035061
Amount: 1.178802
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:00:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

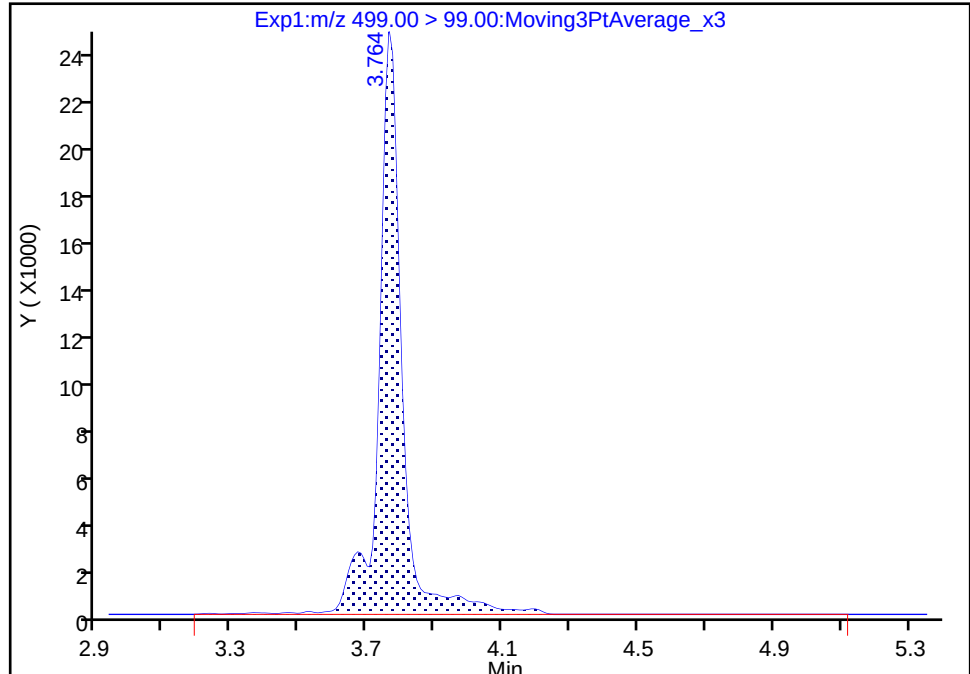
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

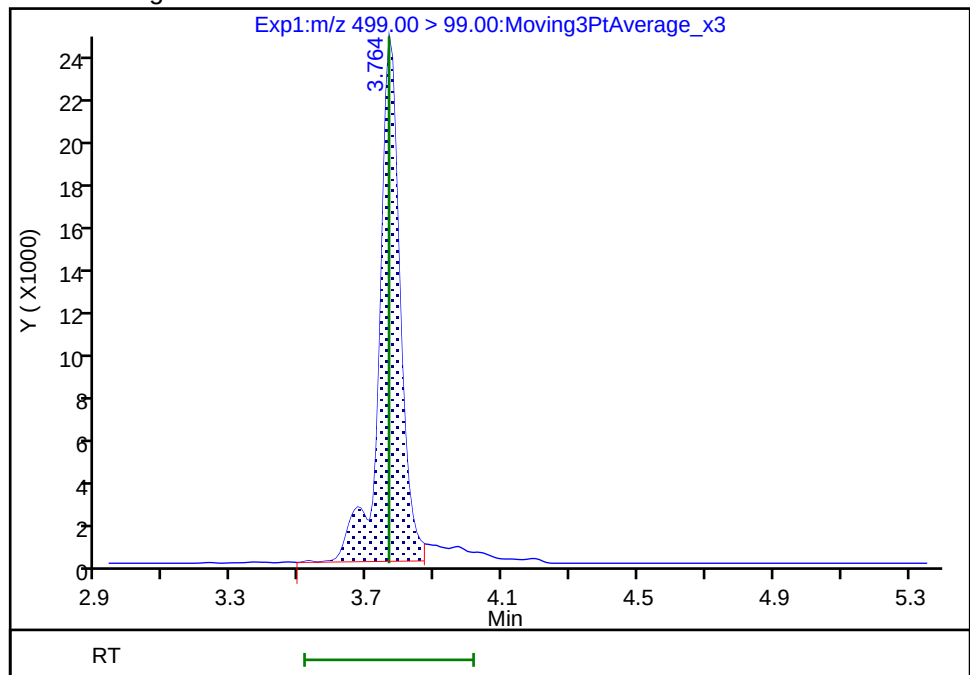
RT: 3.76
Area: 115041
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 103252
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

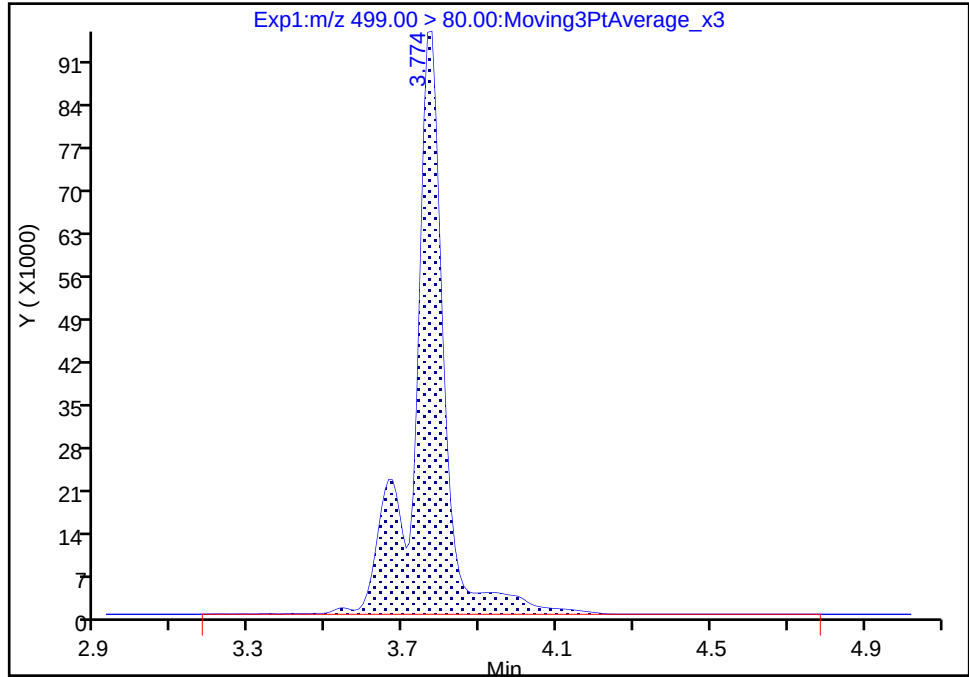
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

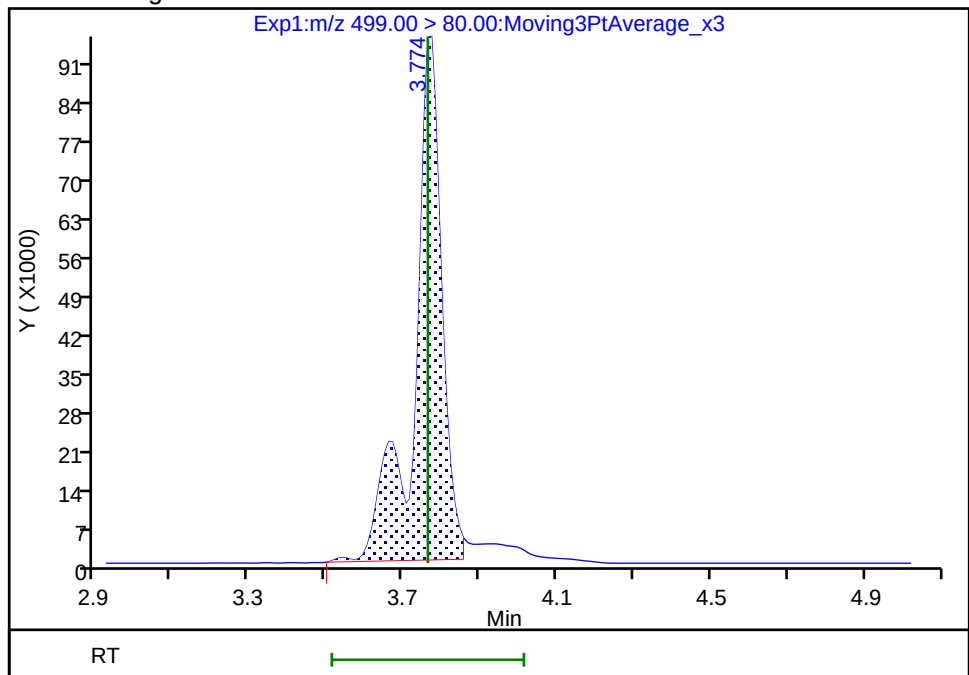
RT: 3.77
Area: 524529
Amount: 0.450182
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 471879
Amount: 0.447970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

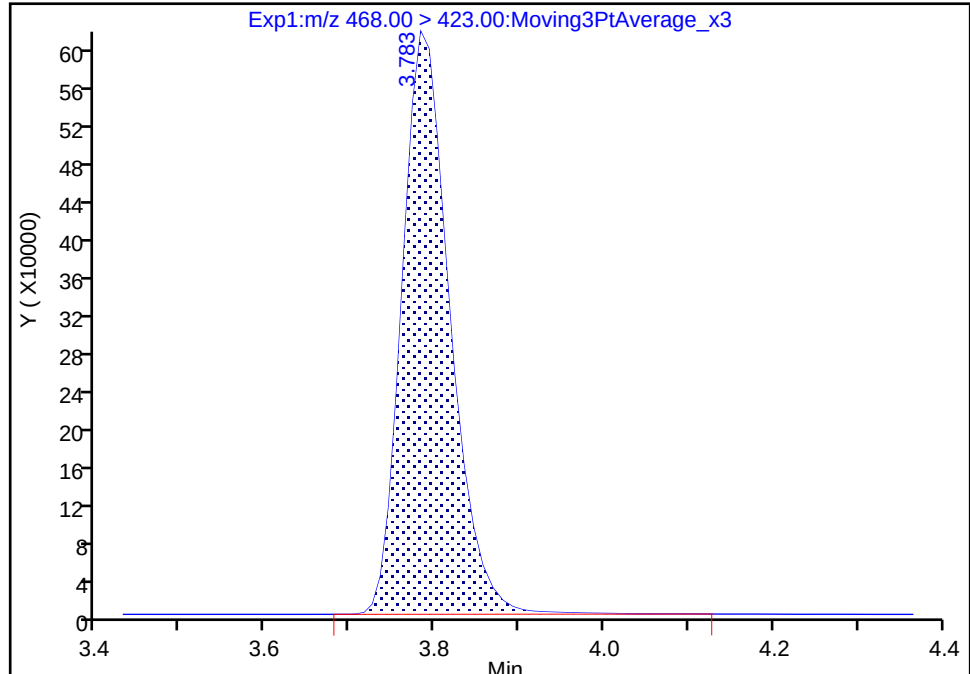
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

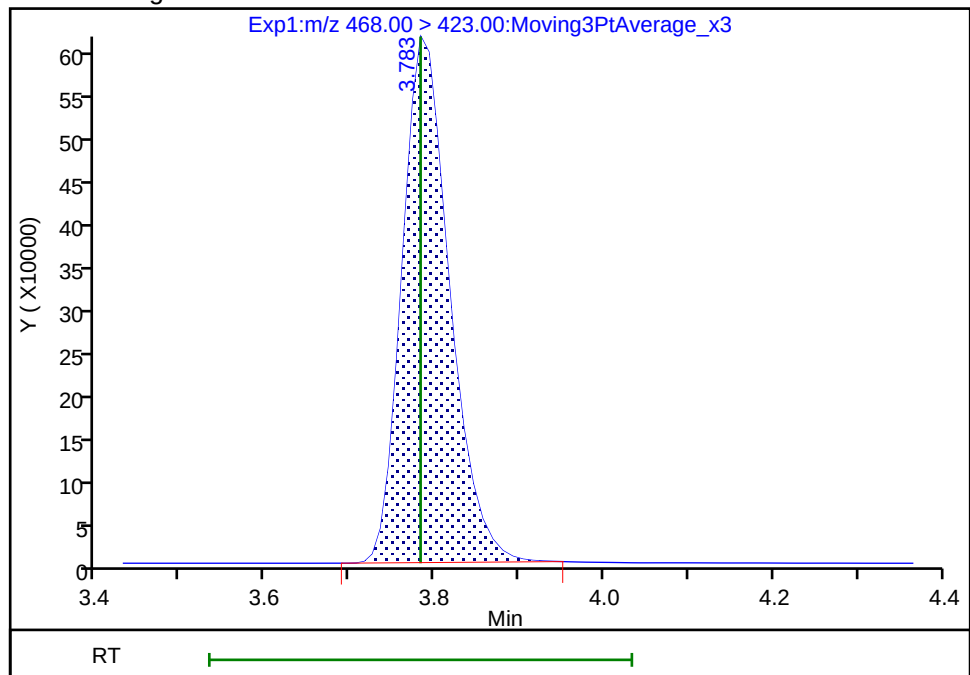
RT: 3.78
Area: 2398141
Amount: 1.248889
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2379680
Amount: 1.236174
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

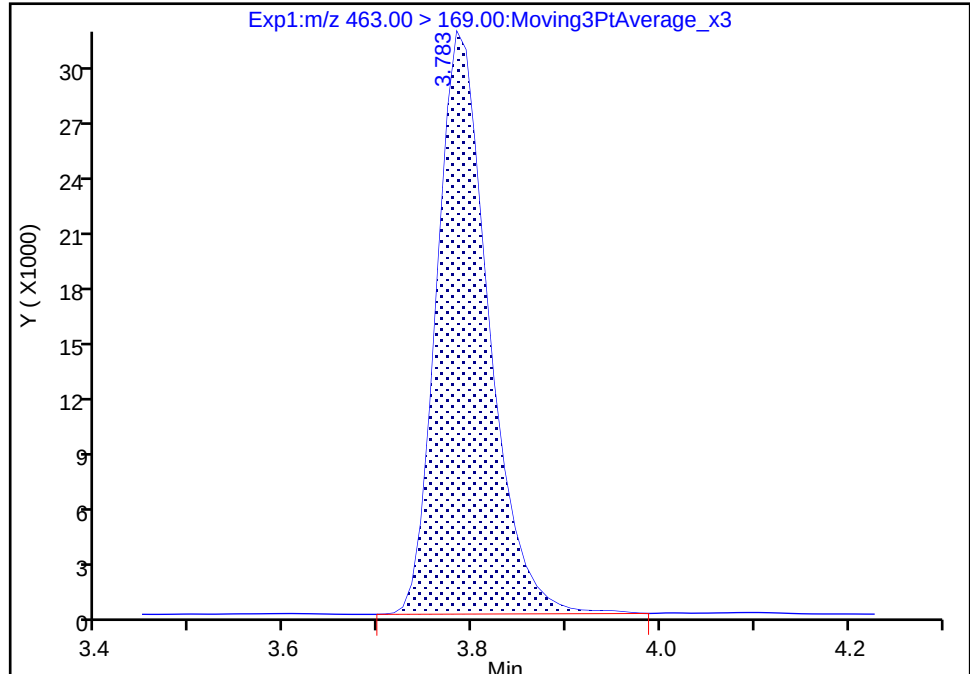
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

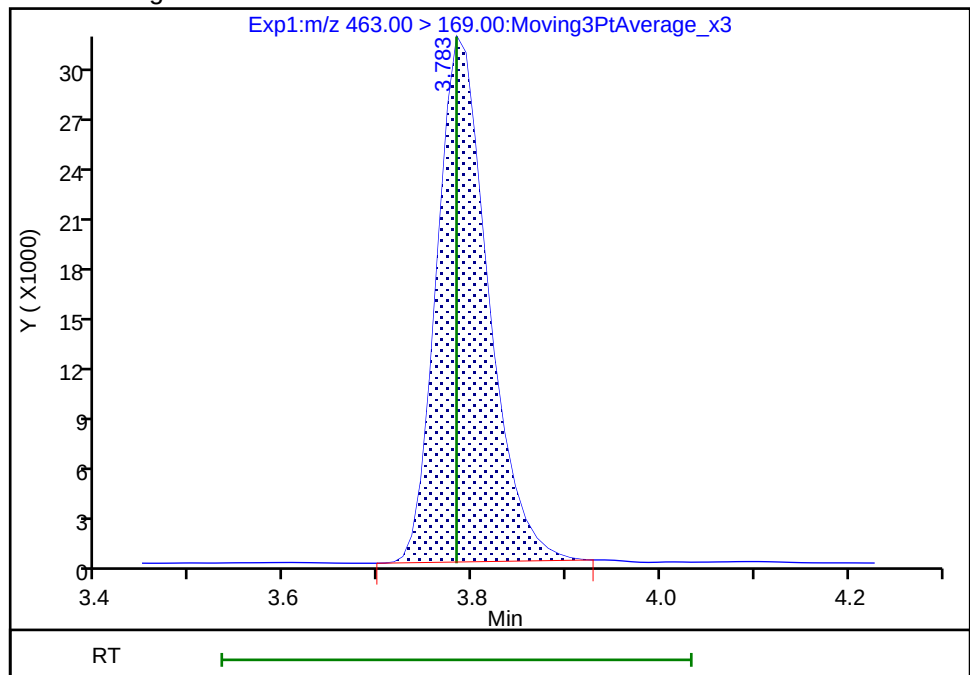
RT: 3.78
Area: 120127
Amount: 0.507644
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 118713
Amount: 0.531934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

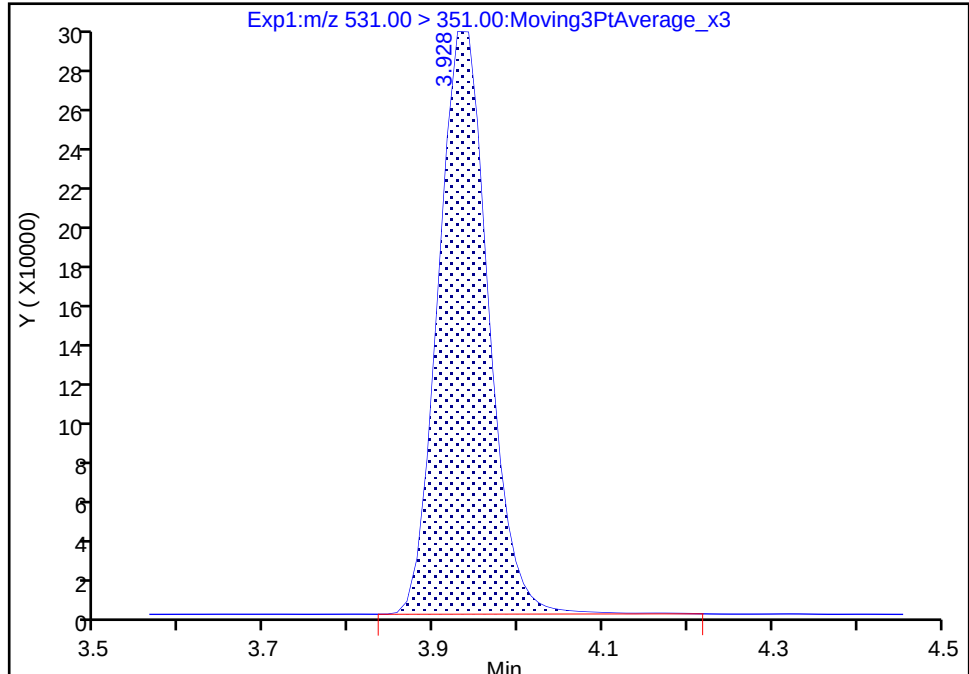
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

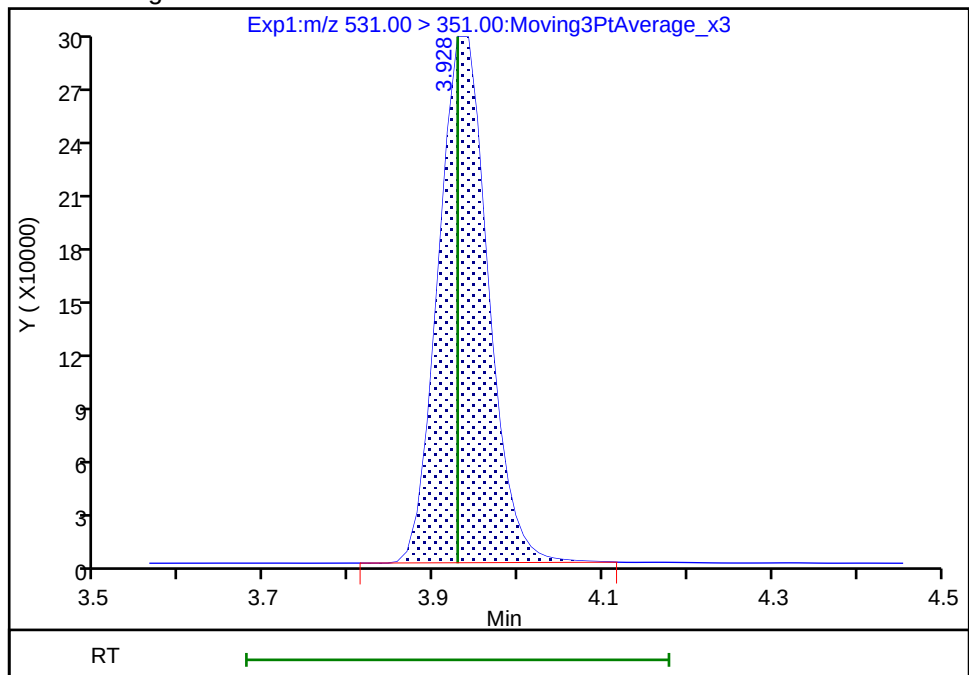
RT: 3.93
Area: 1196218
Amount: 0.468080
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 1190983
Amount: 0.492631
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

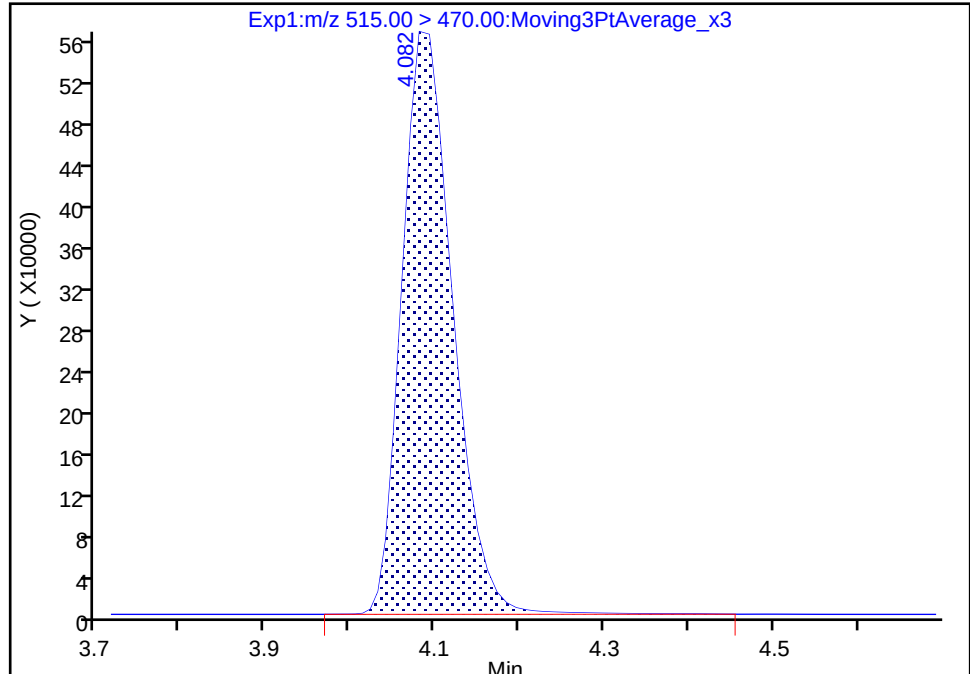
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

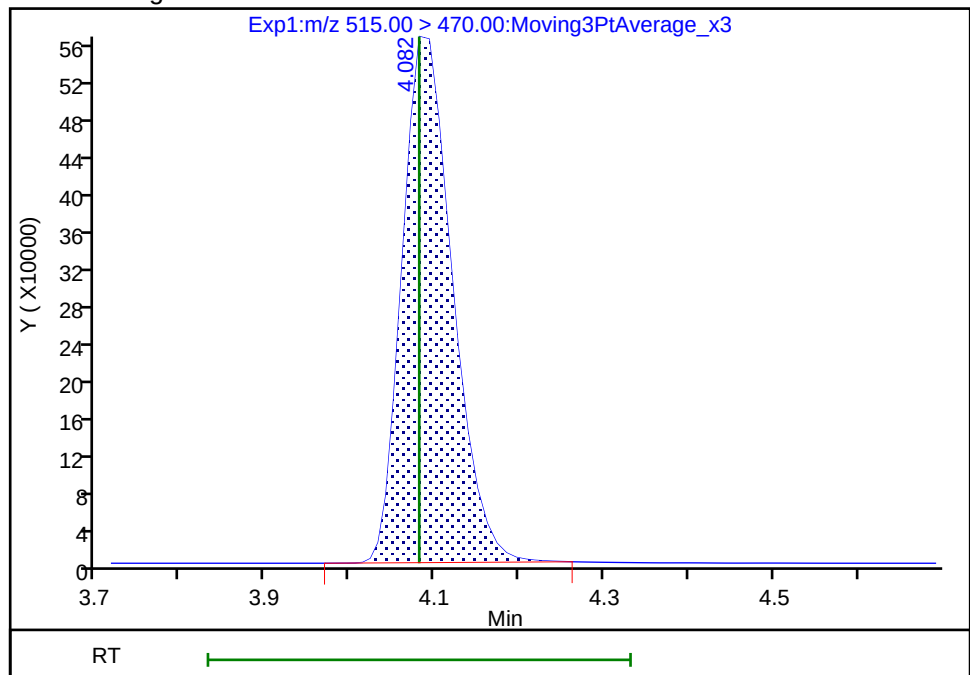
RT: 4.08
Area: 2353187
Amount: 1.223652
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2334094
Amount: 1.189856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

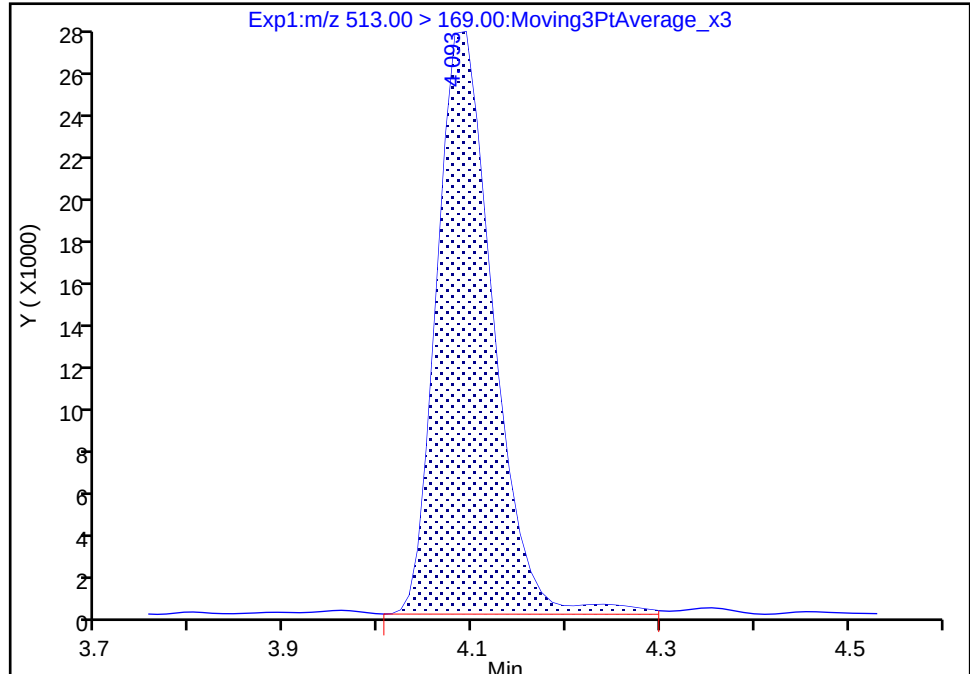
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

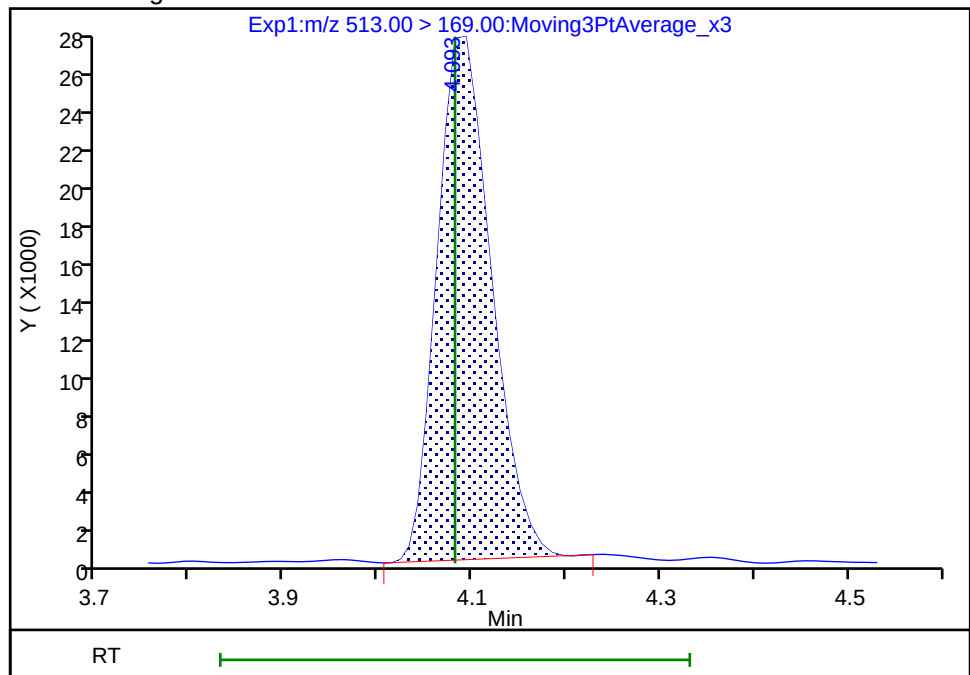
RT: 4.09
Area: 112536
Amount: 0.535825
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 108172
Amount: 0.585009
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

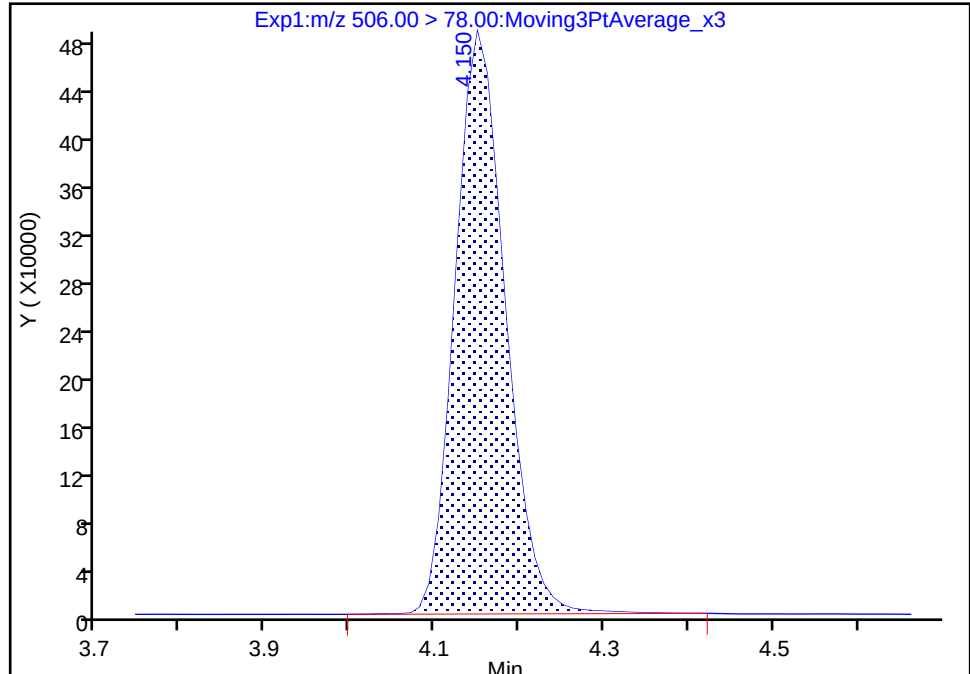
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

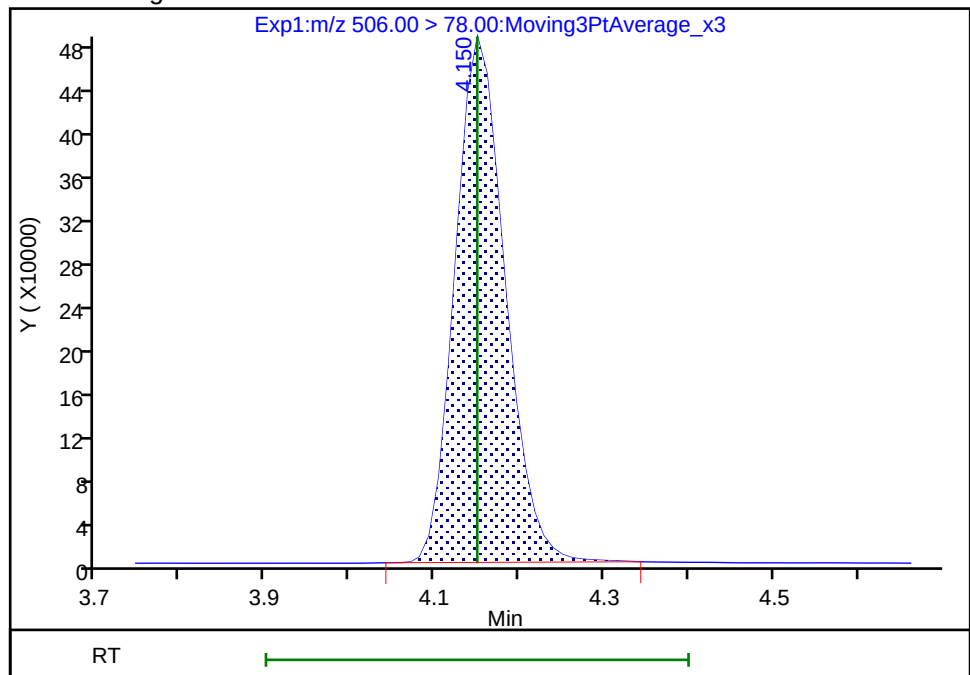
RT: 4.15
Area: 1977863
Amount: 1.249599
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1967036
Amount: 1.223096
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

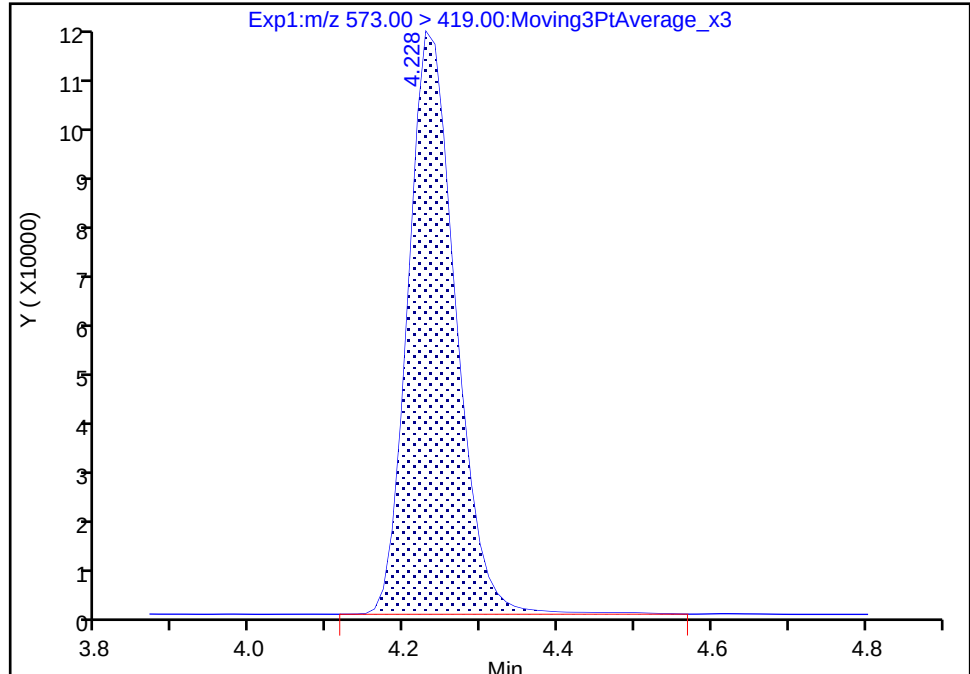
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

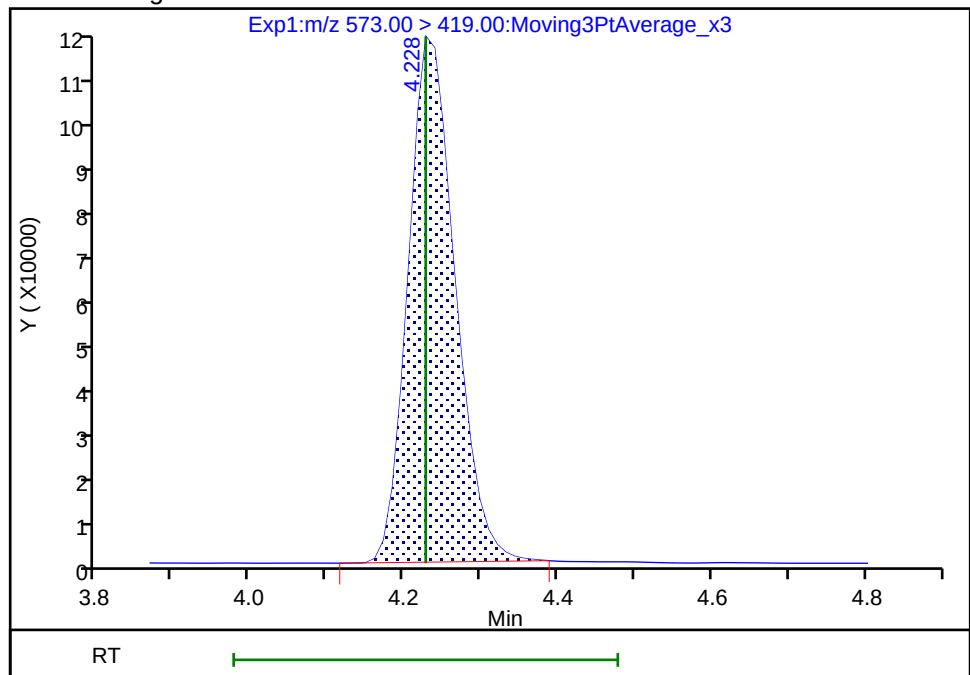
RT: 4.23
Area: 472648
Amount: 1.220892
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 466044
Amount: 1.166822
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:01:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

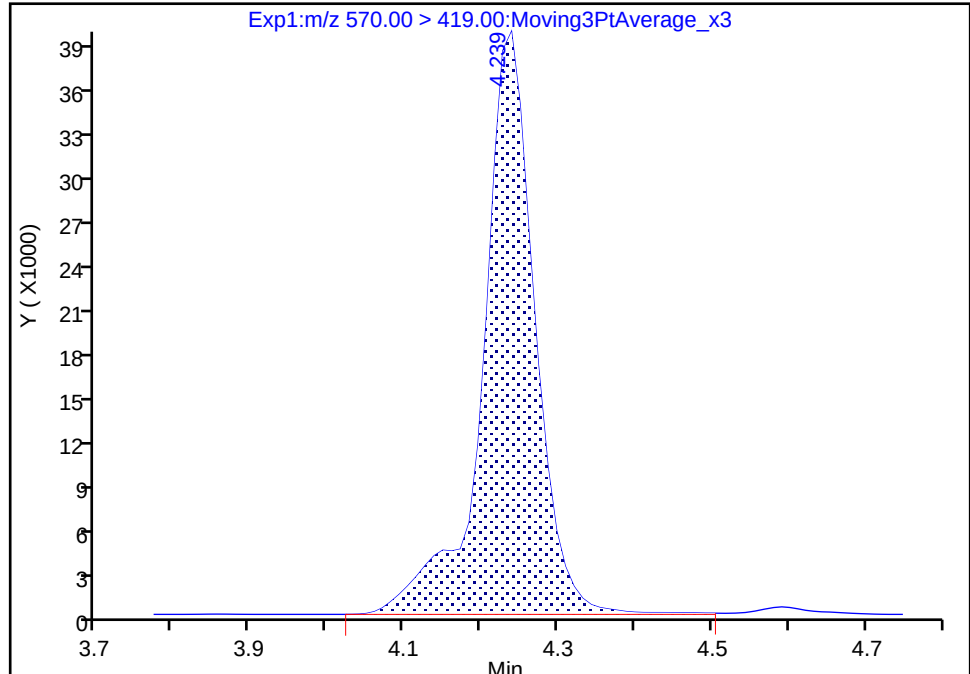
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

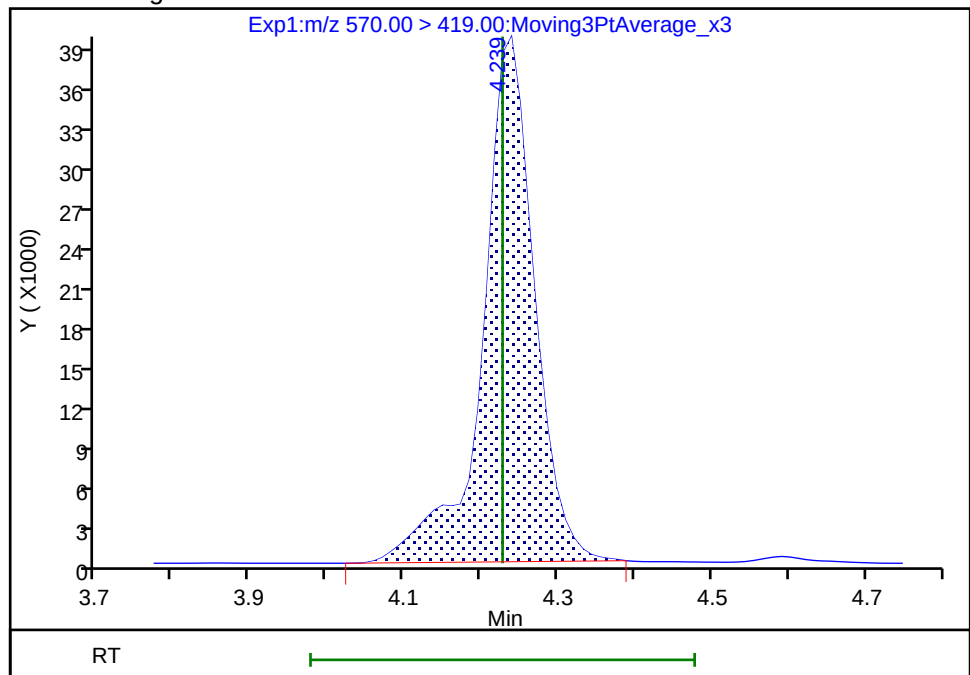
RT: 4.24
Area: 186349
Amount: 0.510442
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 183478
Amount: 0.560438
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

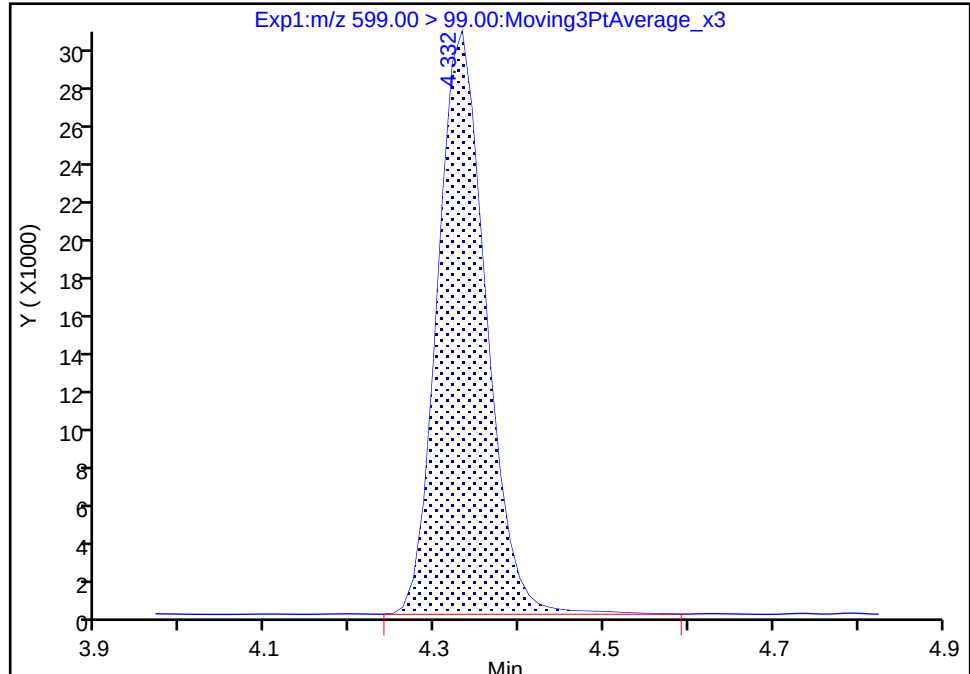
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

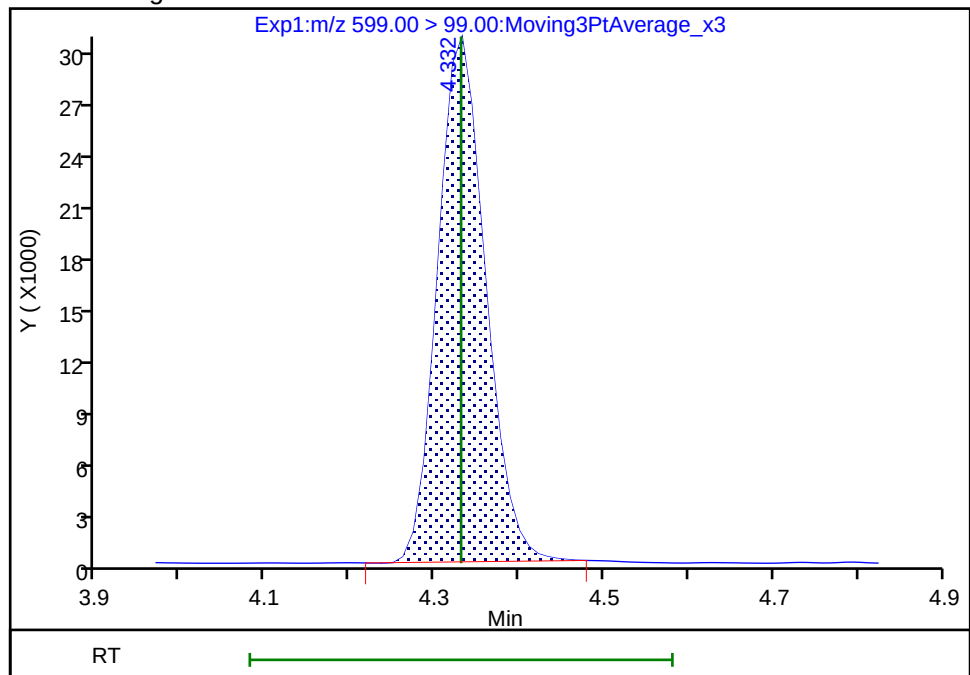
RT: 4.33
Area: 122520
Amount: 0.495943
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 120718
Amount: 0.518321
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

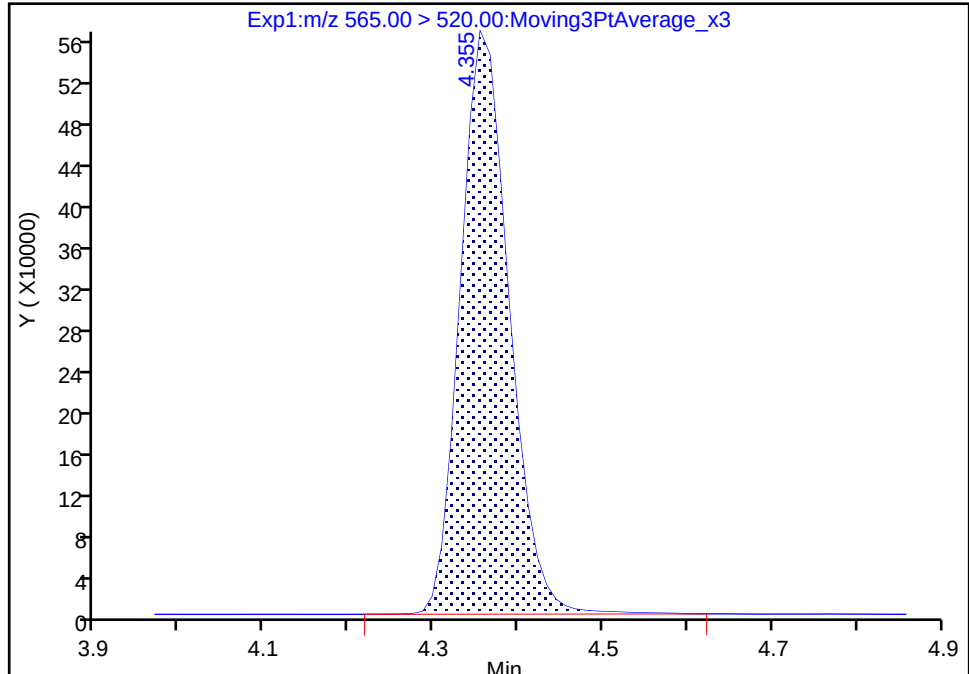
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

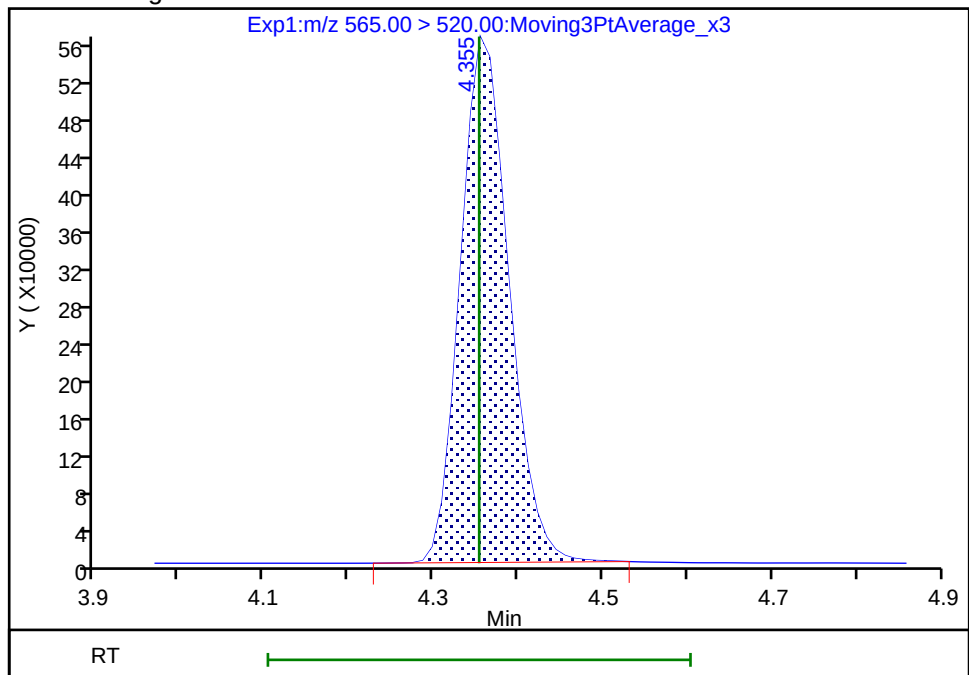
RT: 4.35
Area: 2246233
Amount: 1.255521
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2230172
Amount: 1.241544
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

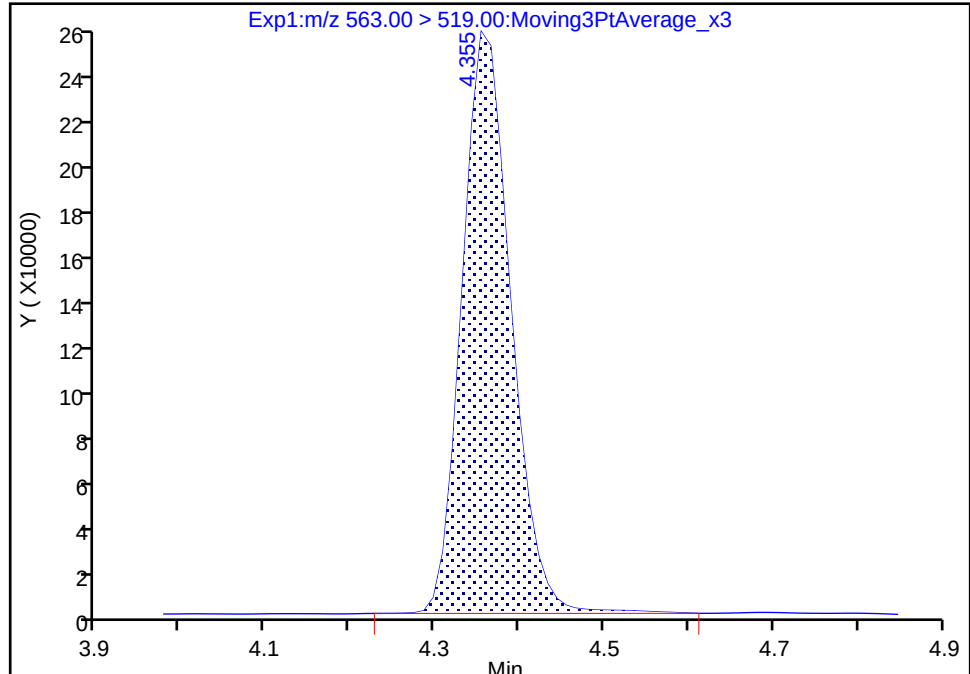
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

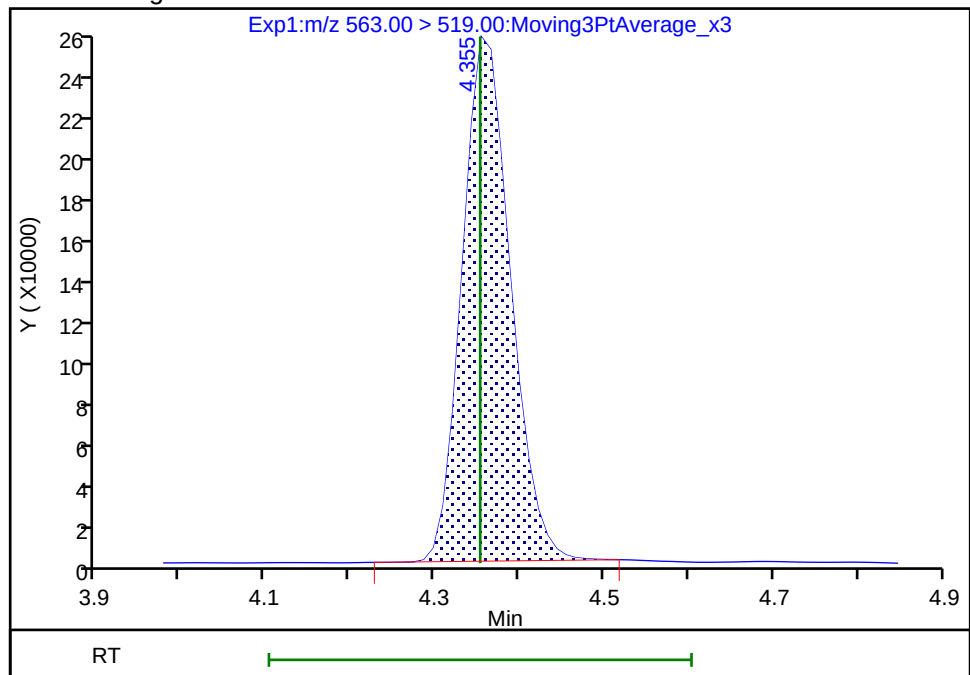
RT: 4.35
Area: 1019546
Amount: 0.528294
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1004863
Amount: 0.558860
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

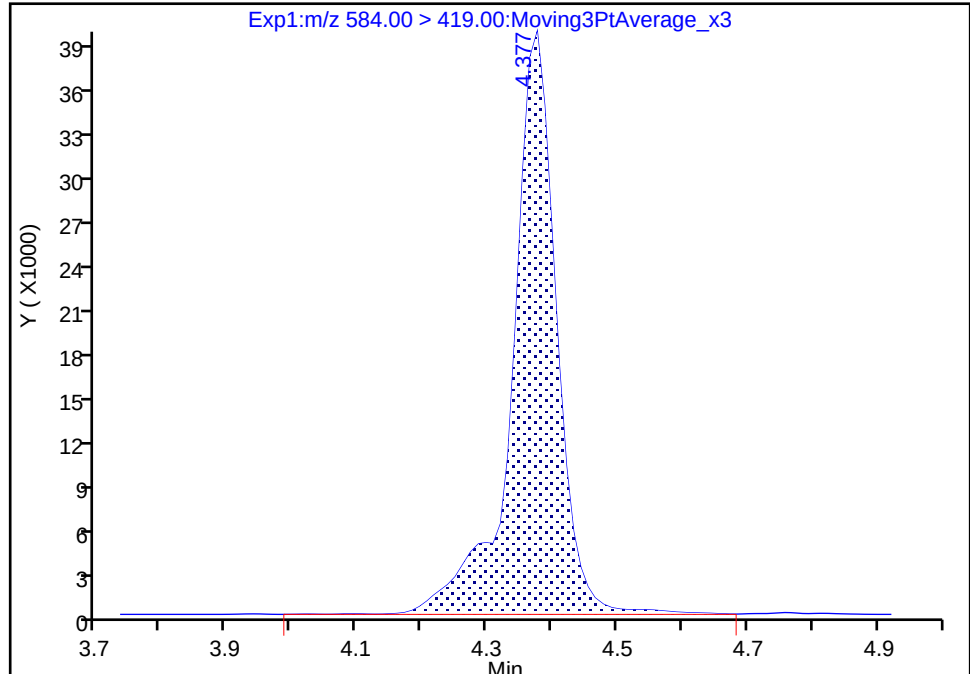
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

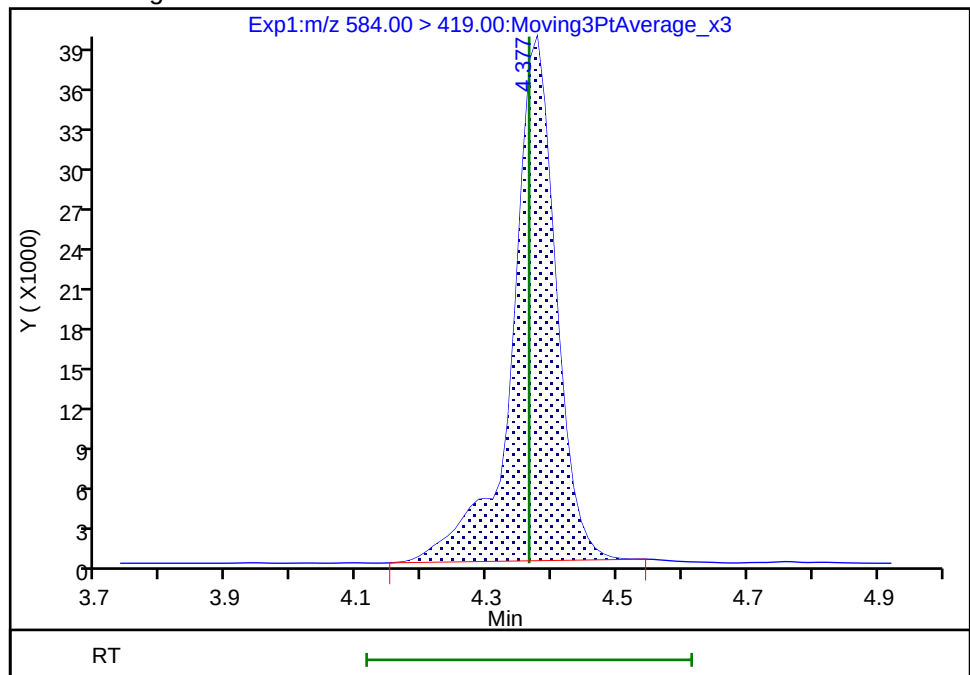
RT: 4.38
Area: 187455
Amount: 0.493834
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 182262
Amount: 0.510836
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

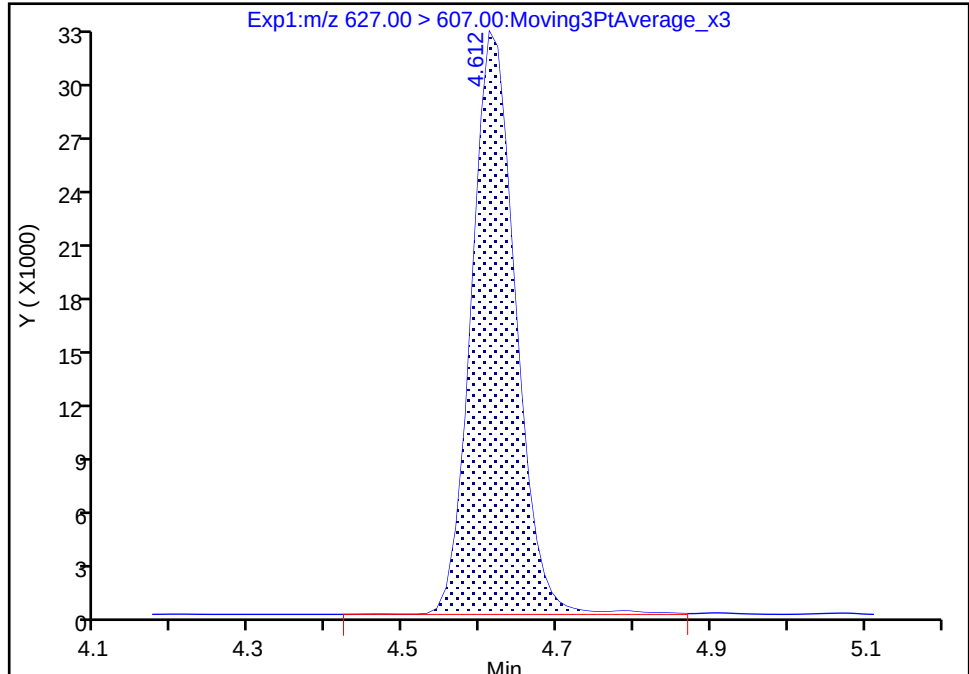
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

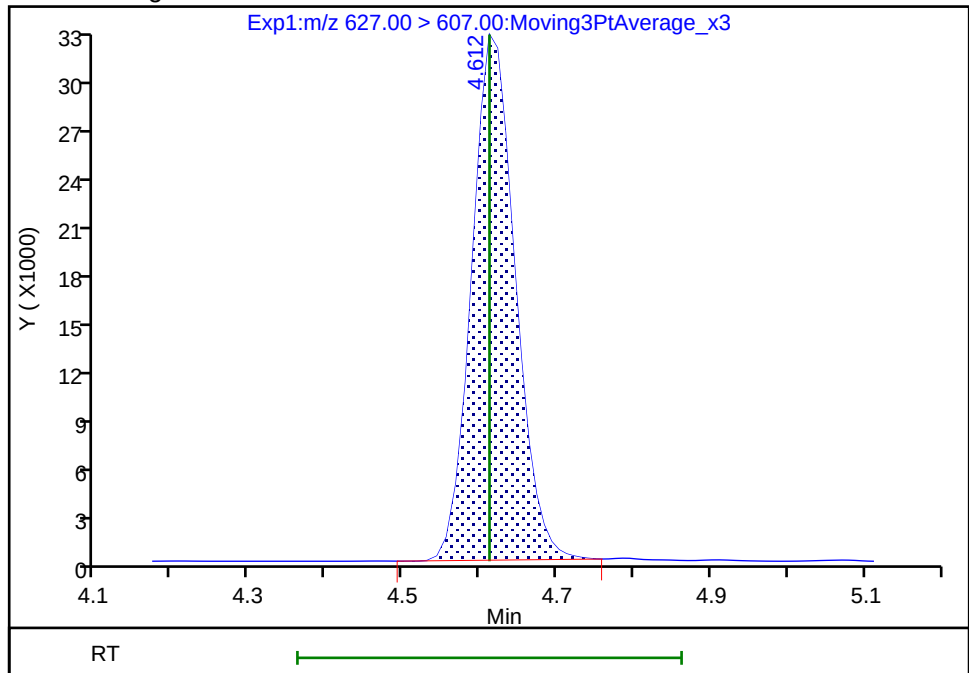
RT: 4.61
Area: 127475
Amount: 0.468658
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 125547
Amount: 0.481934
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

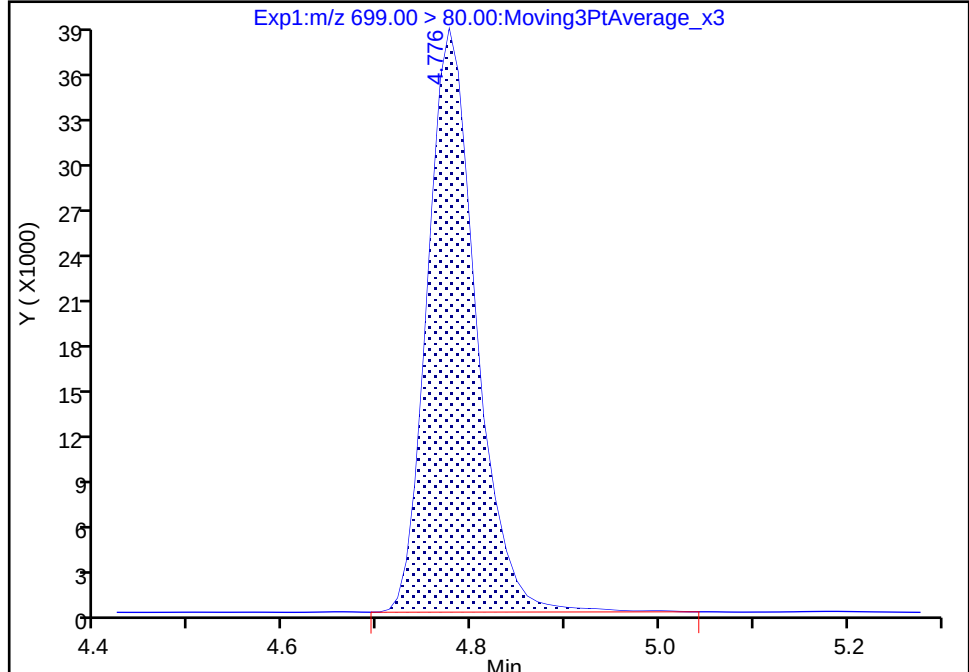
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

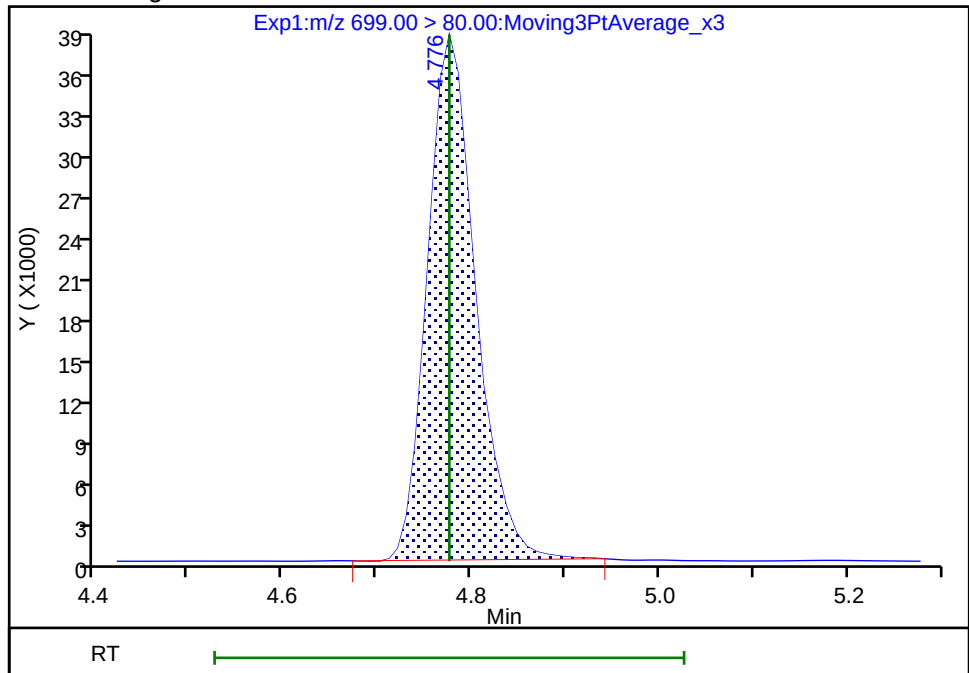
RT: 4.78
Area: 137382
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 135657
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

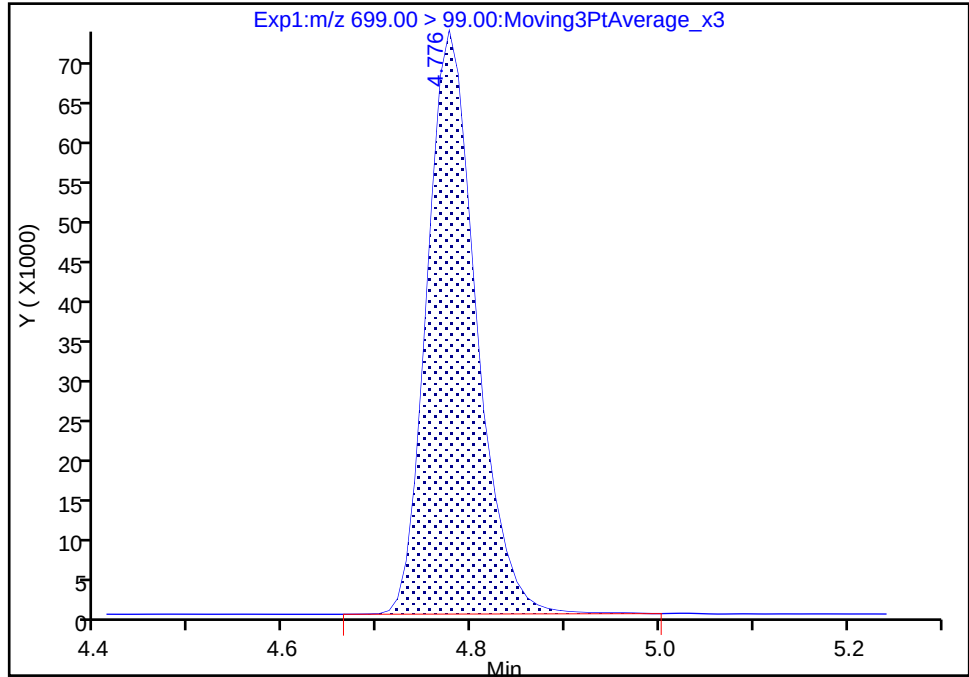
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

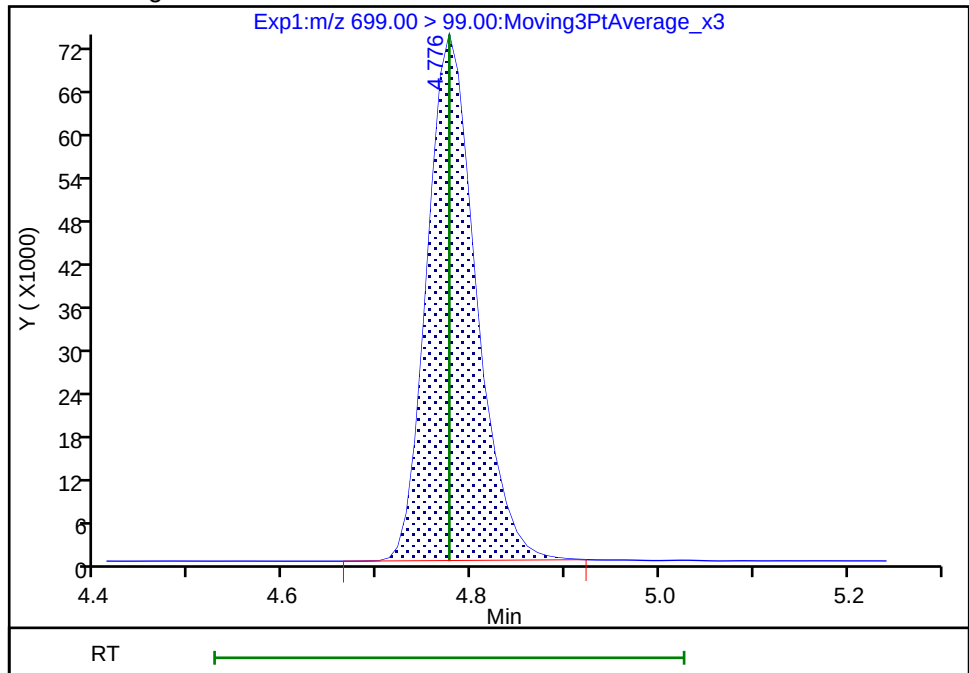
RT: 4.78
Area: 265617
Amount: 0.488107
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 264160
Amount: 0.510739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

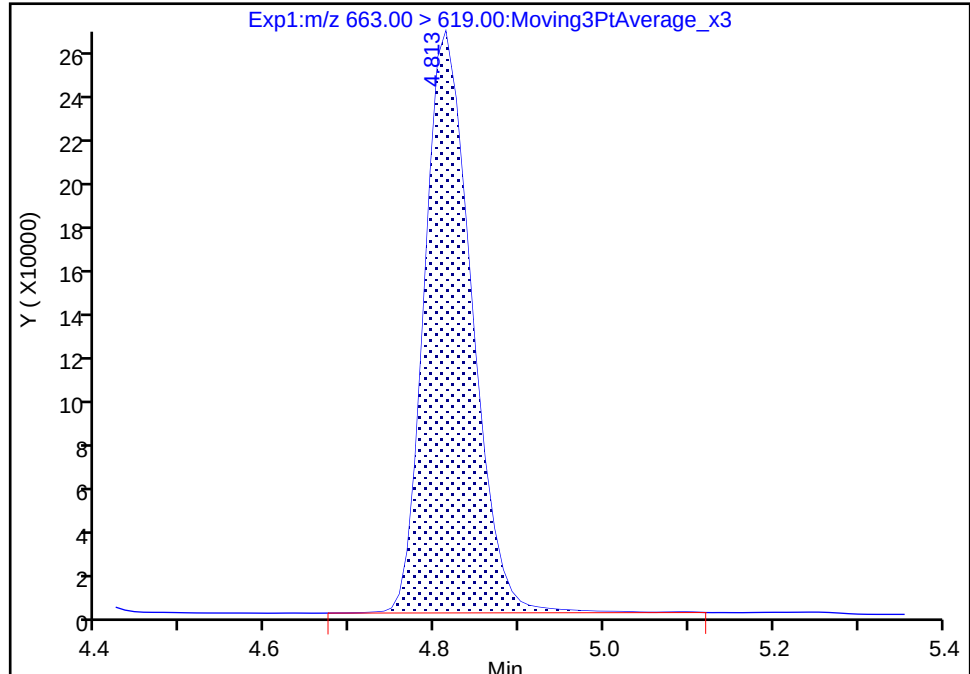
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

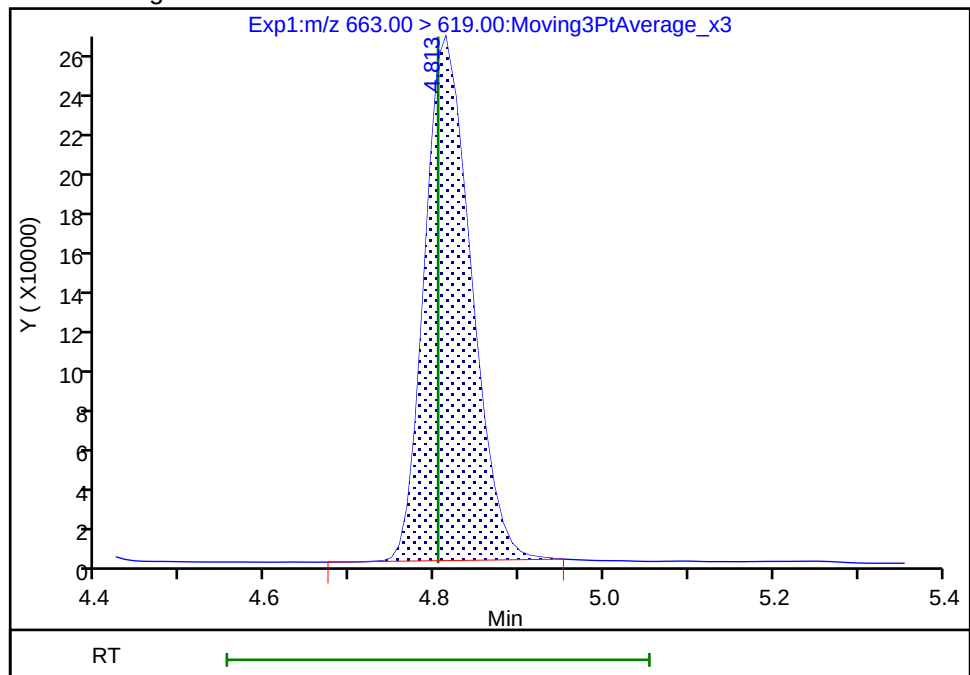
RT: 4.81
Area: 1002946
Amount: 0.507432
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 987678
Amount: 0.542529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

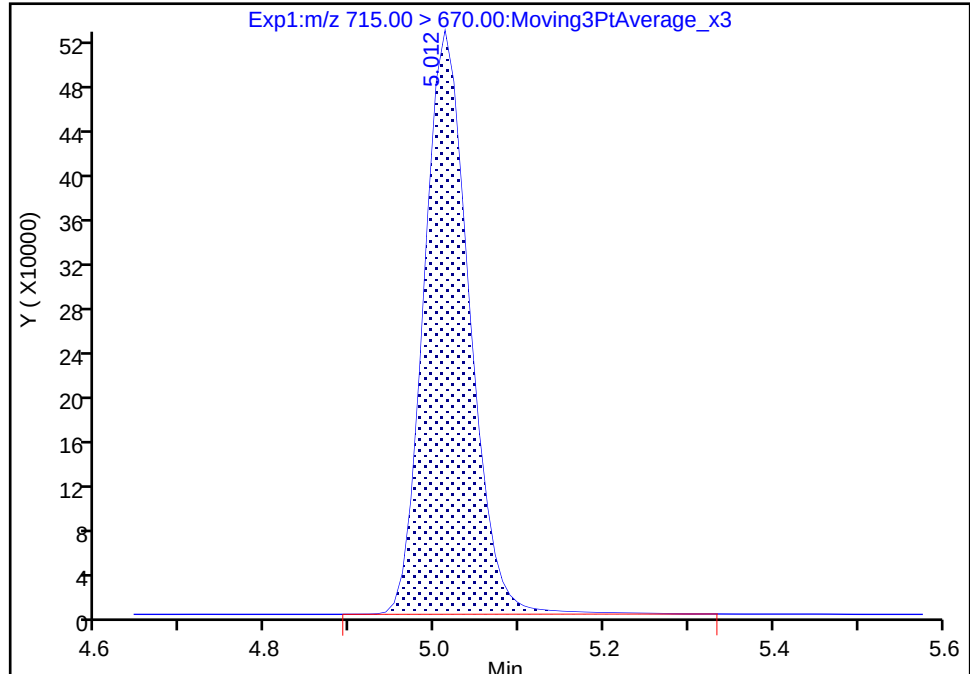
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

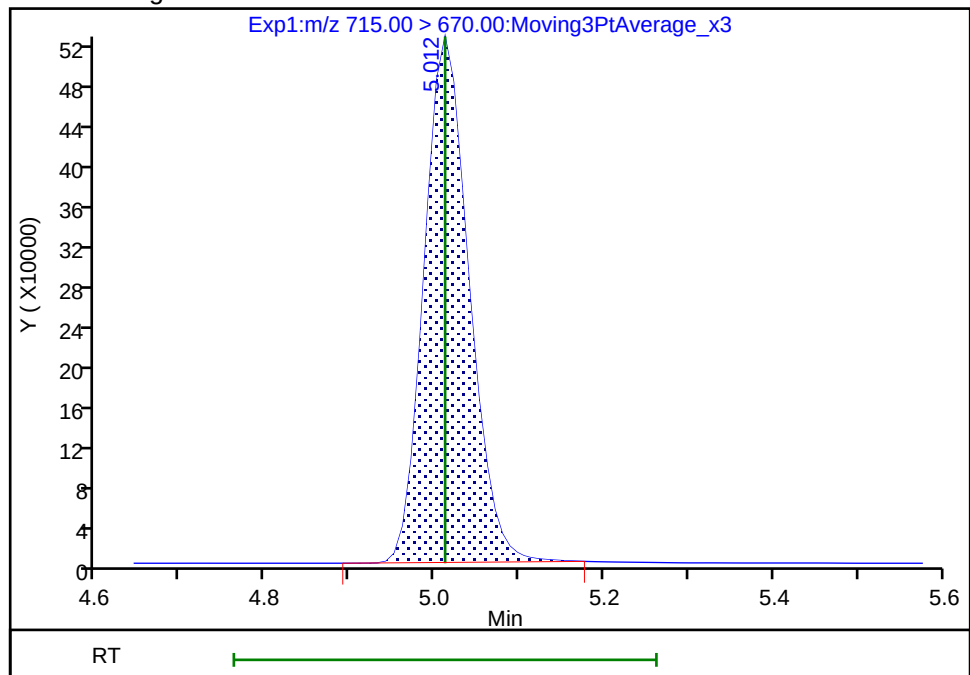
RT: 5.01
Area: 1966556
Amount: 1.245759
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1947280
Amount: 1.230207
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:02:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

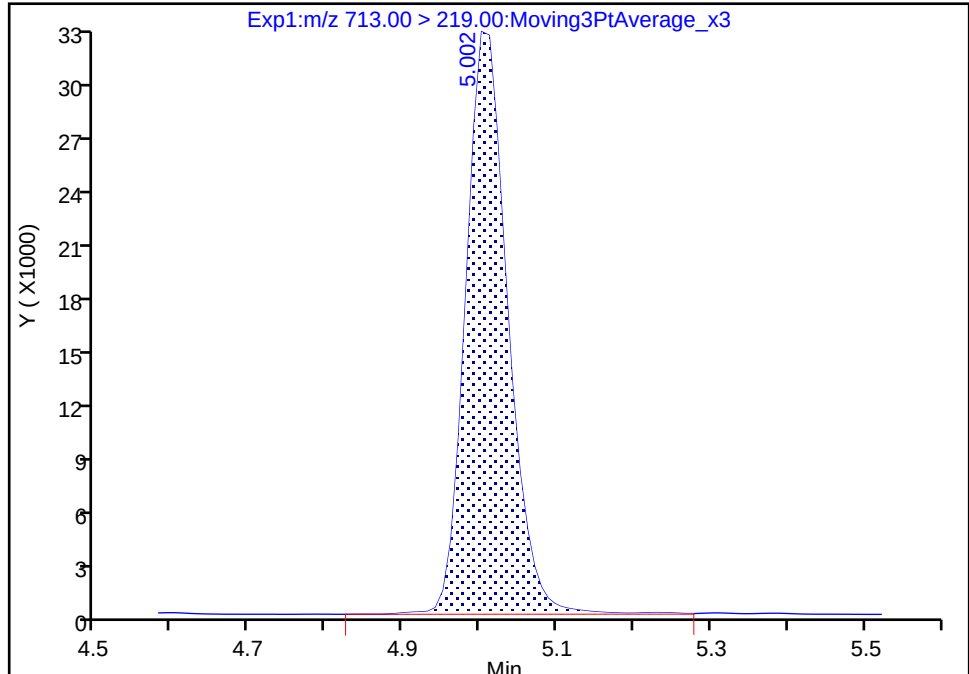
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

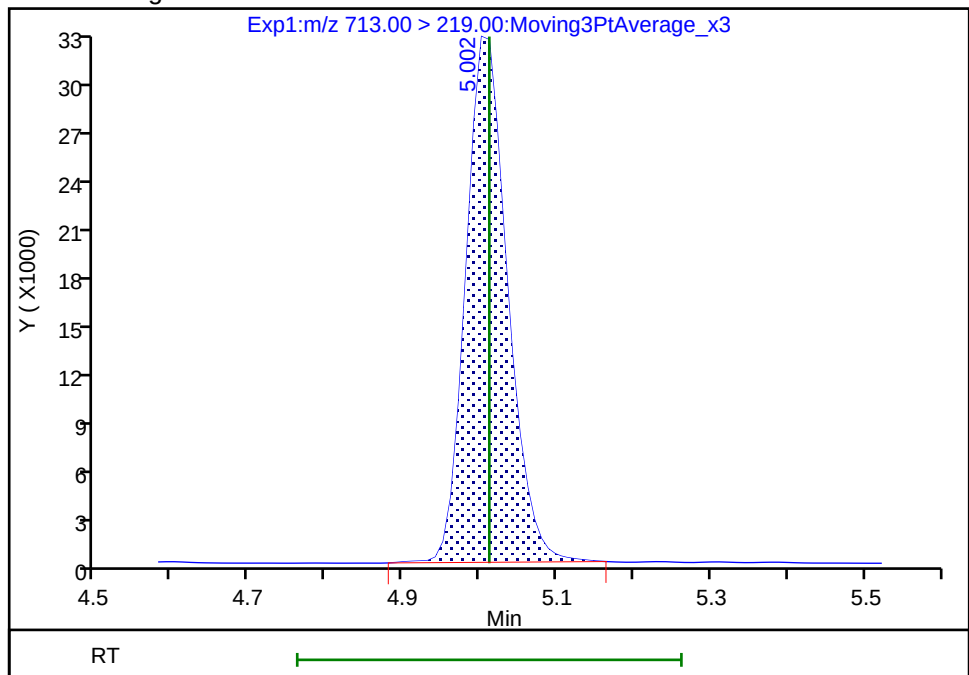
RT: 5.00
Area: 121696
Amount: 0.499944
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 120383
Amount: 0.532692
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

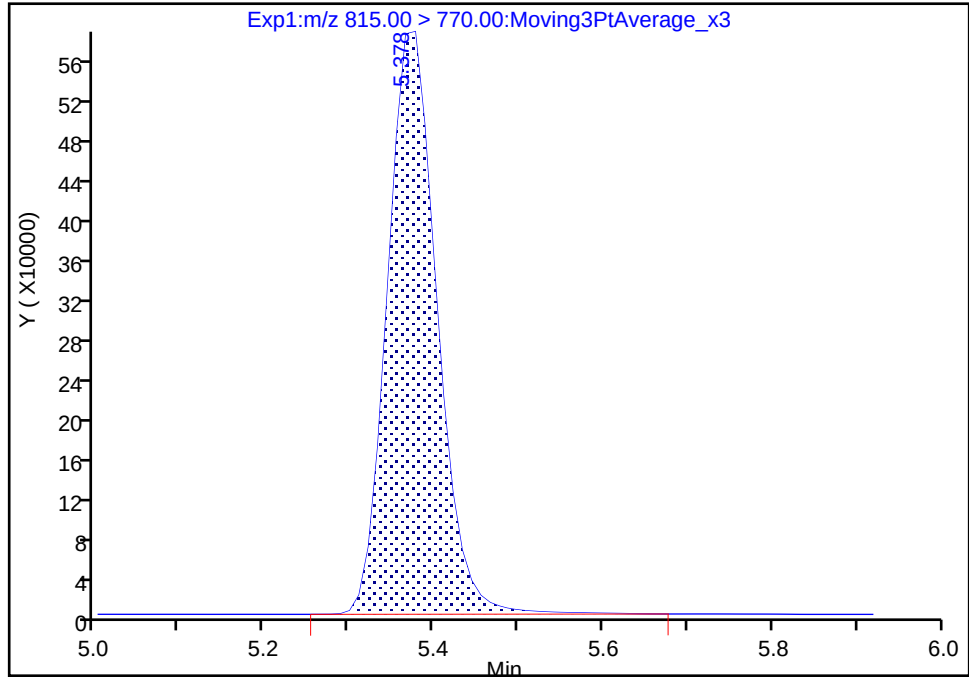
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

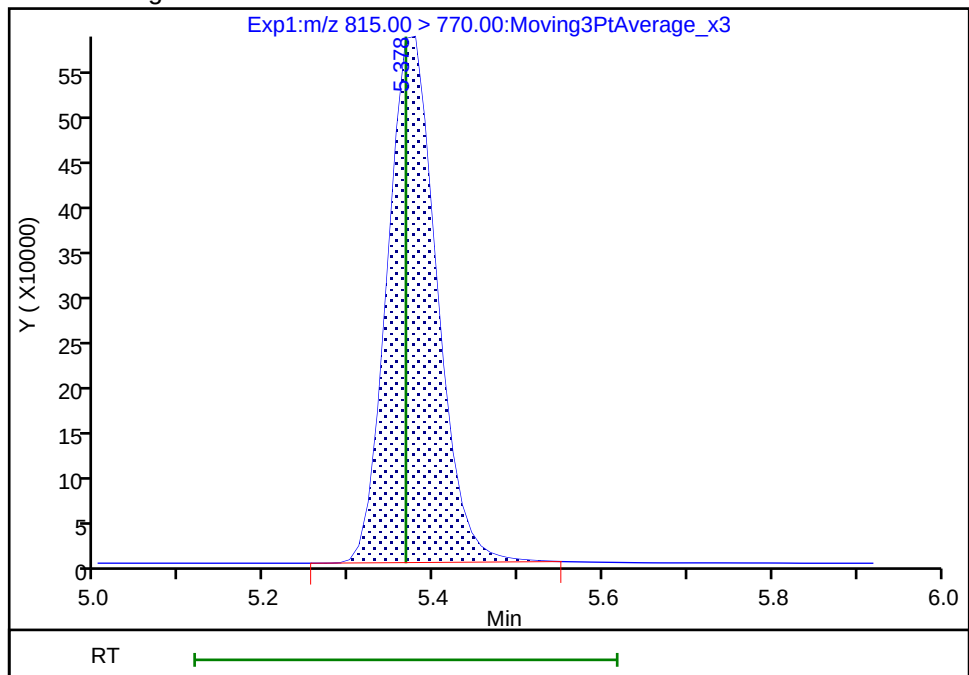
RT: 5.38
Area: 2367322
Amount: 1.213410
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 2348434
Amount: 1.200087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

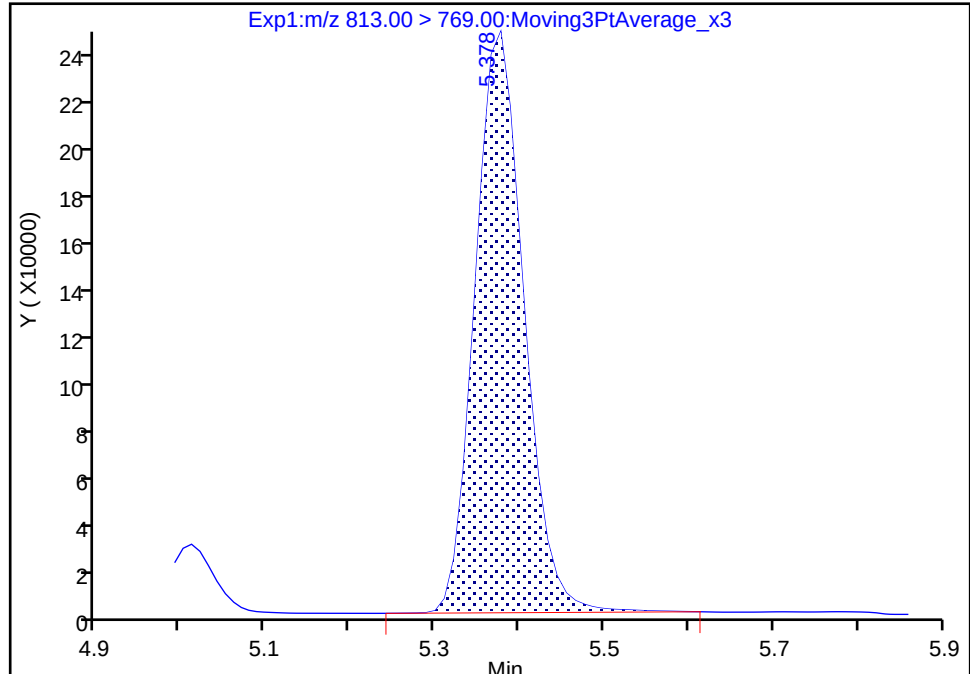
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

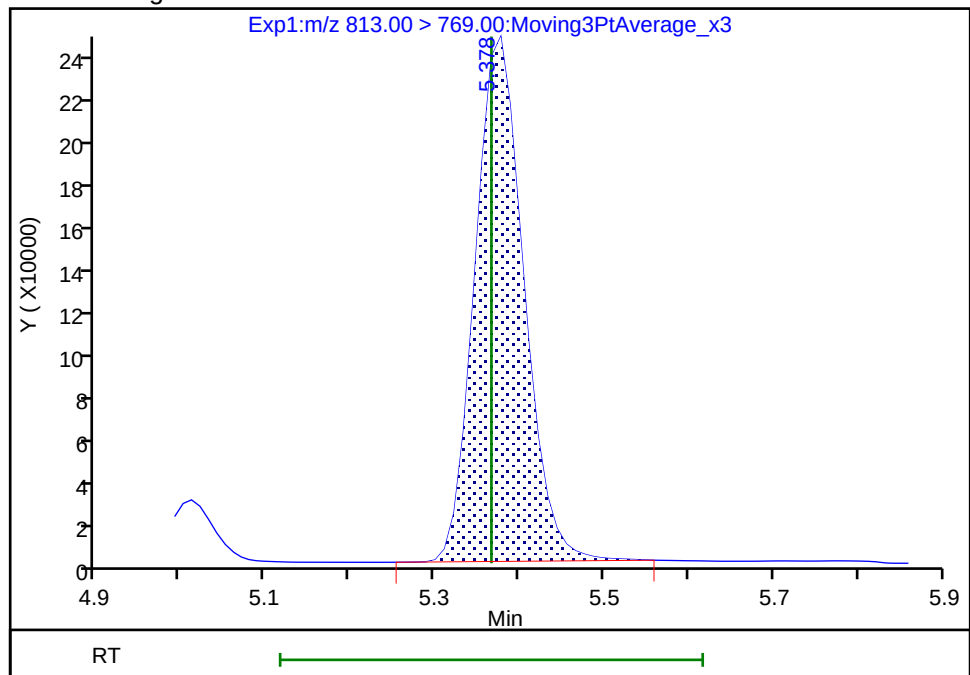
RT: 5.38
Area: 983409
Amount: 0.501394
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 978907
Amount: 0.549576
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

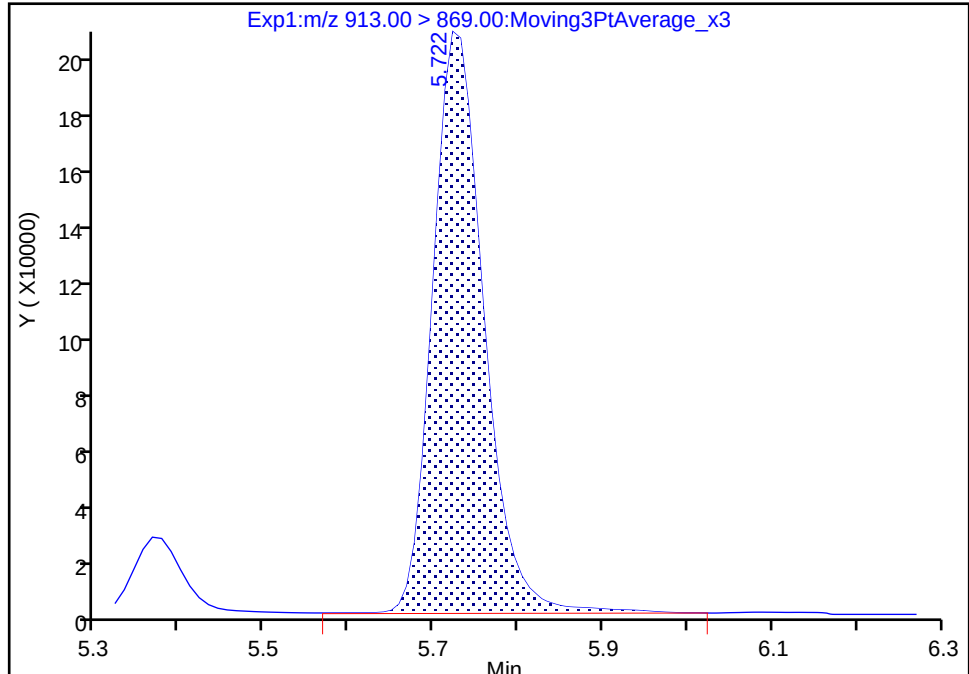
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

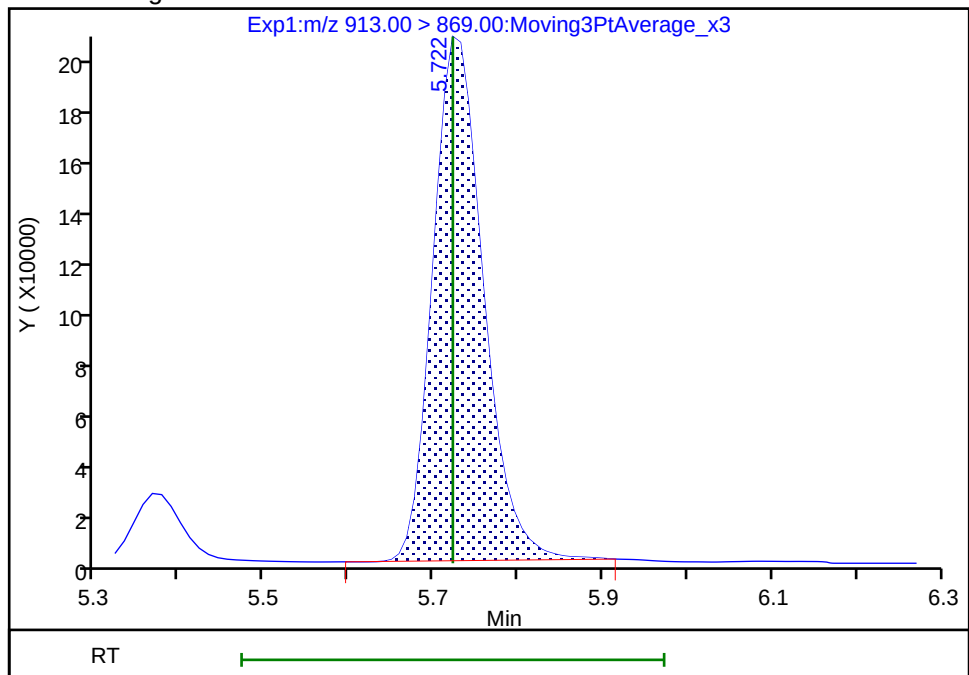
RT: 5.72
Area: 870066
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 852104
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

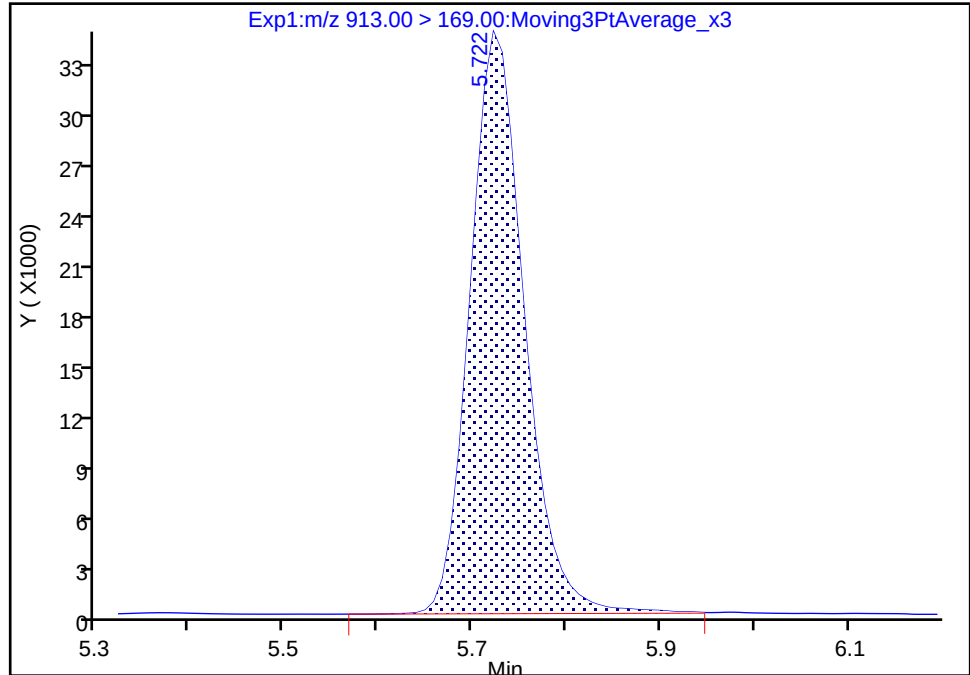
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL07.d
Injection Date: 18-Nov-2022 14:46:15 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

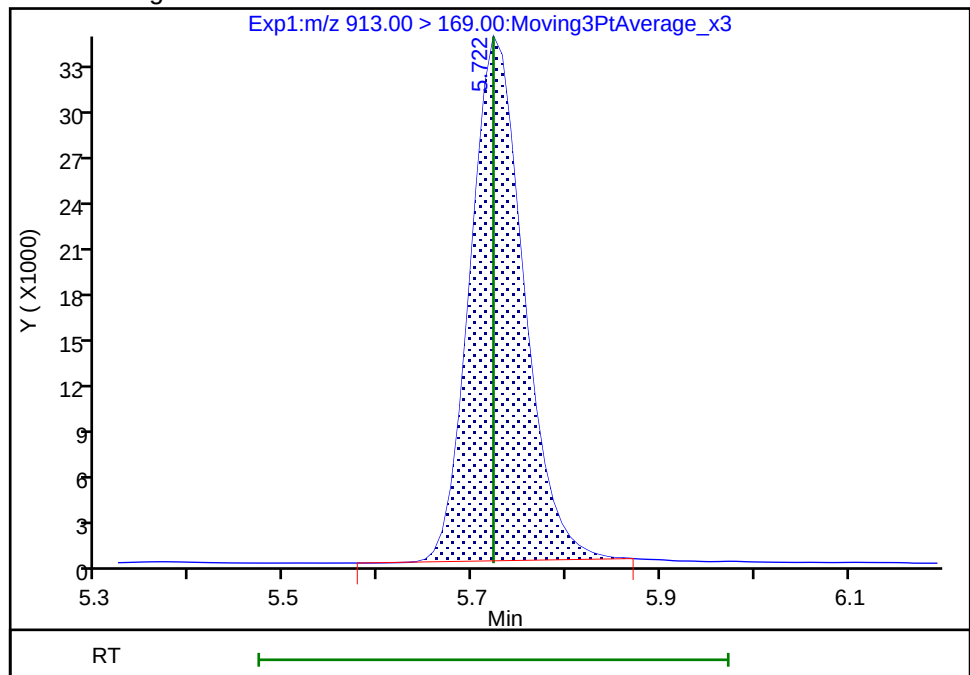
RT: 5.72
Area: 136693
Amount: 0.534447
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 133969
Amount: 0.550699
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:03:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 373 of 1142

1/9/2023 1:31
PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
 Lims ID: ICISAV
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 18-Nov-2022 14:54:26 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0053396-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:43 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:10:02

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.076	2.076	0.0	0.602	2534911	1.21		97.1	8459	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	1911392	0.9140		91.4	178	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	1977830	1.24		99.5	4234	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1602160	0.9291		92.9	42.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	1977208	1.14		98.4	321673	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1545417	0.7942	Target=2.14	89.8	2033	
298.90 > 99.00	2.400	2.400	0.0	1.000	739473		2.09(1.07-3.21)	89.8	579	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	391113	0.8767		93.9	2379	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	169056	1.11		94.8	181	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2055340	1.23		98.7	4582	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1703495	0.9508	Target=13.44	95.1	335	M
313.00 > 119.00	2.725	2.725	0.0	1.000	119585		14.25(6.72-20.15)	95.1	175	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	1404230	0.8581	Target=2.98	91.5	2468	
349.00 > 99.00	2.737	2.737	0.0	0.887	461710		3.04(1.49-4.47)	91.5	1082	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	372889	1.27		101	2292	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	286947	0.9110		91.1	991	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1449028	1.15		97.4	3635	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	1180858	0.8538	Target=3.57	93.8	1219	M
399.00 > 99.00	3.088	3.088	0.0	1.000	322894		3.66(1.78-5.35)	93.8	449	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2123066	1.24		99.1	4752	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	1718424	0.9293	Target=3.93	92.9	372	M
363.00 > 169.00	3.099	3.099	0.0	1.000	433271		3.97(1.96-5.89)	92.9	919	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4197219	0.9414	Target=3.08	99.9	3253	
377.00 > 85.00	3.132	3.132	0.0	0.832	1329955		3.16(1.54-4.62)	99.9	1576	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	249636	1.18		99.6	824	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	404018	0.8979		94.7	1316	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	1021904	0.9037	Target=5.16	94.9	1725	M
449.00 > 99.00	3.439	3.439	0.0	0.914	198660		5.14(2.58-7.74)	94.9	800	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2342274	1.22		97.3	4621	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2326928	1.25			6928	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	1946044	0.9715	Target=2.82	97.1	147	
413.00 > 169.00	3.448	3.448	0.0	1.000	696928		2.79(1.41-4.23)	97.1	1444	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	967441	1.13		94.8	2148	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	856526	0.8700	Target=5.01	93.7	226	M
499.00 > 99.00	3.764	3.764	0.0	1.000	167691		5.11(2.50-7.51)	93.7	213	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2356501	1.26		101	3960	
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	1851038	0.9465	Target=8.49	94.7	363	
463.00 > 169.00	3.783	3.783	0.0	1.000	216403		8.55(4.25-12.74)	94.7	1426	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2037918	0.9019		96.8	7599	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	673297	0.9060	Target=2.60	94.4	3265	
549.00 > 99.00	4.061	4.050	0.011	1.079	265784		2.53(1.30-3.90)	94.4	989	
D 23 13C2 PFDA										M
515.00 > 470.00	4.081	4.081	0.0	1.184	2384612	1.25		100.0	2422	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	4.081	4.081	0.0	1.000	1957474	0.9462	Target=10.03	94.6	861	
513.00 > 169.00	4.081	4.081	0.0	1.000	190868		10.26(5.02-15.05)	94.6	378	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	300249	1.16		97.1	1026	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	370895	0.9148		95.5	1282	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1483356	0.9442		94.4	2971	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1879604	1.20		96.1	1789	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	470154	1.21		96.8	798	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.000	324897	0.99		99.3	621	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	528363	0.9005	Target=2.58	93.4	2444	
599.00 > 99.00	4.331	4.331	0.0	1.151	210859		2.51(1.29-3.86)	93.4	1382	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	1710346	0.9714	Target=10.10	97.1	822	
563.00 > 169.00	4.353	4.353	0.0	1.000	173100		9.88(5.05-15.15)	97.1	1375	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2183949	1.25		100	2475	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.365	0.0	1.000	311108	0.9436		94.4	1137	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	460360	1.20		96.3	910	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	3224328	0.9257		98.3	2744	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	1785384	0.9748	Target=7.41	97.5	120	
613.00 > 169.00	4.591	4.591	0.0	1.000	229653		7.77(3.70-11.11)	97.5	1063	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2161023	1.21		97.1	3209	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	226266	0.9287		96.3	3406	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	229113	0.9229	Target=0.51	95.3	1358	
699.00 > 99.00	4.776	4.776	0.0	1.269	454220		0.50(0.25-0.76)	95.3	1975	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.804	4.804	0.0	1.046	1631703	0.9315	Target=5.40	93.2	116	M
663.00 > 169.00	4.804	4.804	0.0	1.046	313474		5.21(2.70-8.10)	93.2	887	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	188468	0.9330	Target=0.90	93.3	1017	M
713.00 > 219.00	5.002	5.012	-0.010	0.998	212234		0.89(0.45-1.35)	93.3	1287	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	1844360	1.20		95.8	2227	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2280992	1.20		95.9	2085	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.367	5.367	0.0	1.000	1633724	0.9566	Target=5.85	95.7	136	M
813.00 > 169.00	5.367	5.367	0.0	1.000	289352		5.65(2.93-8.78)	95.7	1150	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1473641	0.9805	Target=6.30	98.1	150	M
913.00 > 169.00	5.722	5.722	0.0	1.066	236187		6.24(3.15-9.46)	98.1	764	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00036

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d

Injection Date: 18-Nov-2022 14:54:26

Instrument ID: LC812

Lims ID: ICISAV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

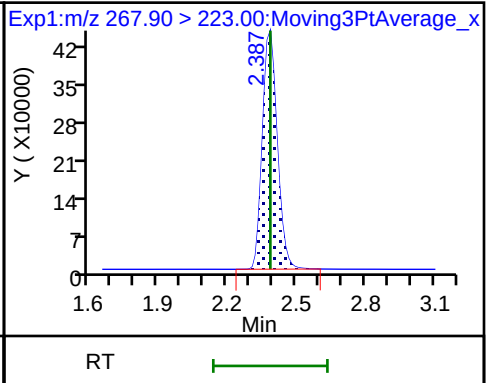
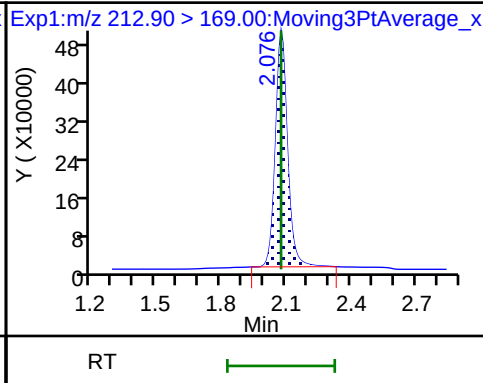
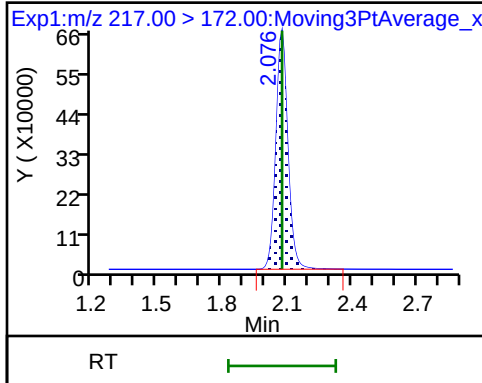
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

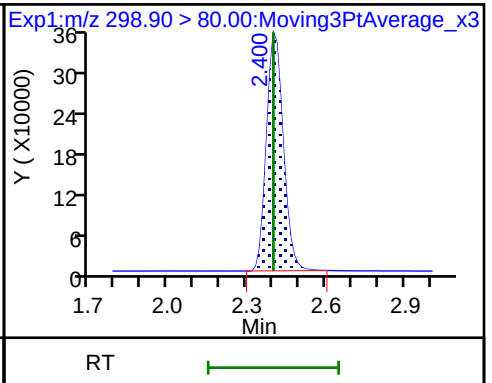
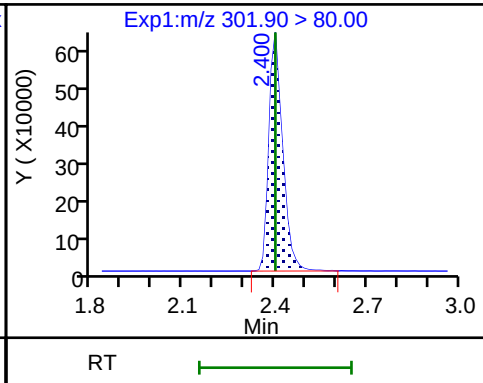
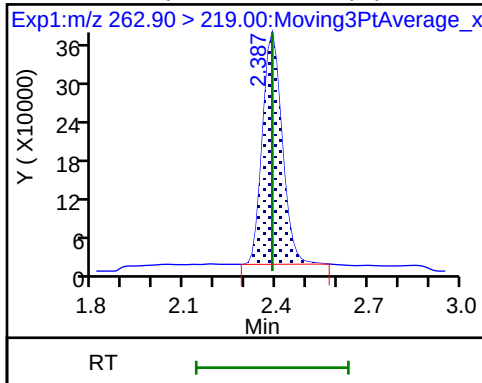
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

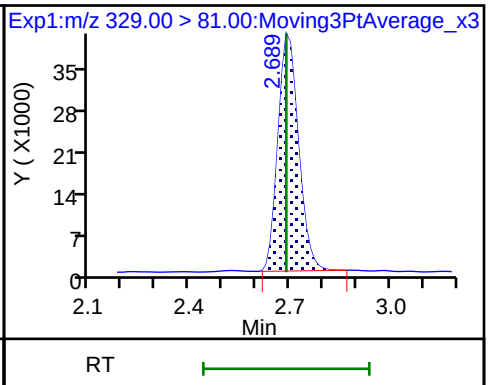
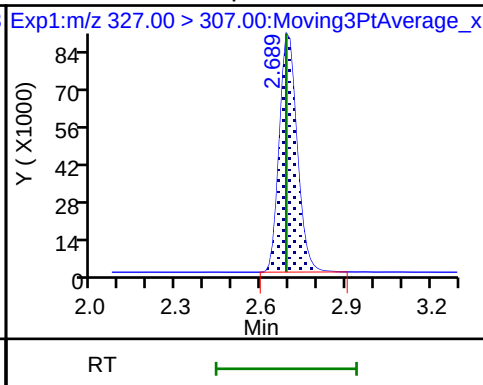
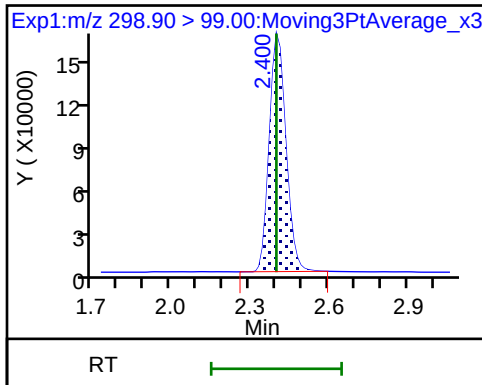
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

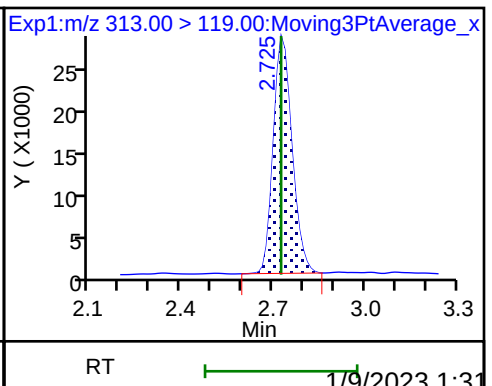
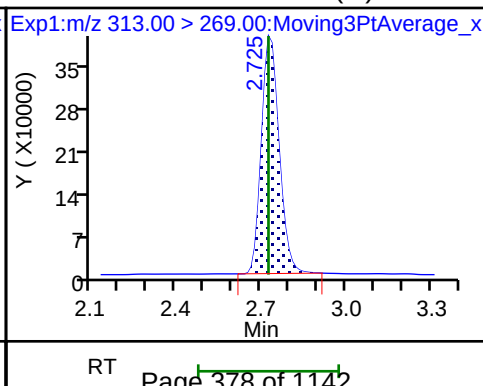
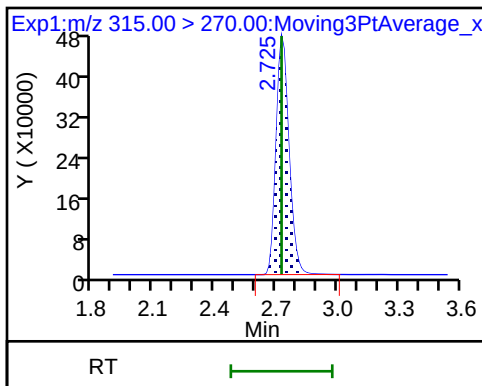
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

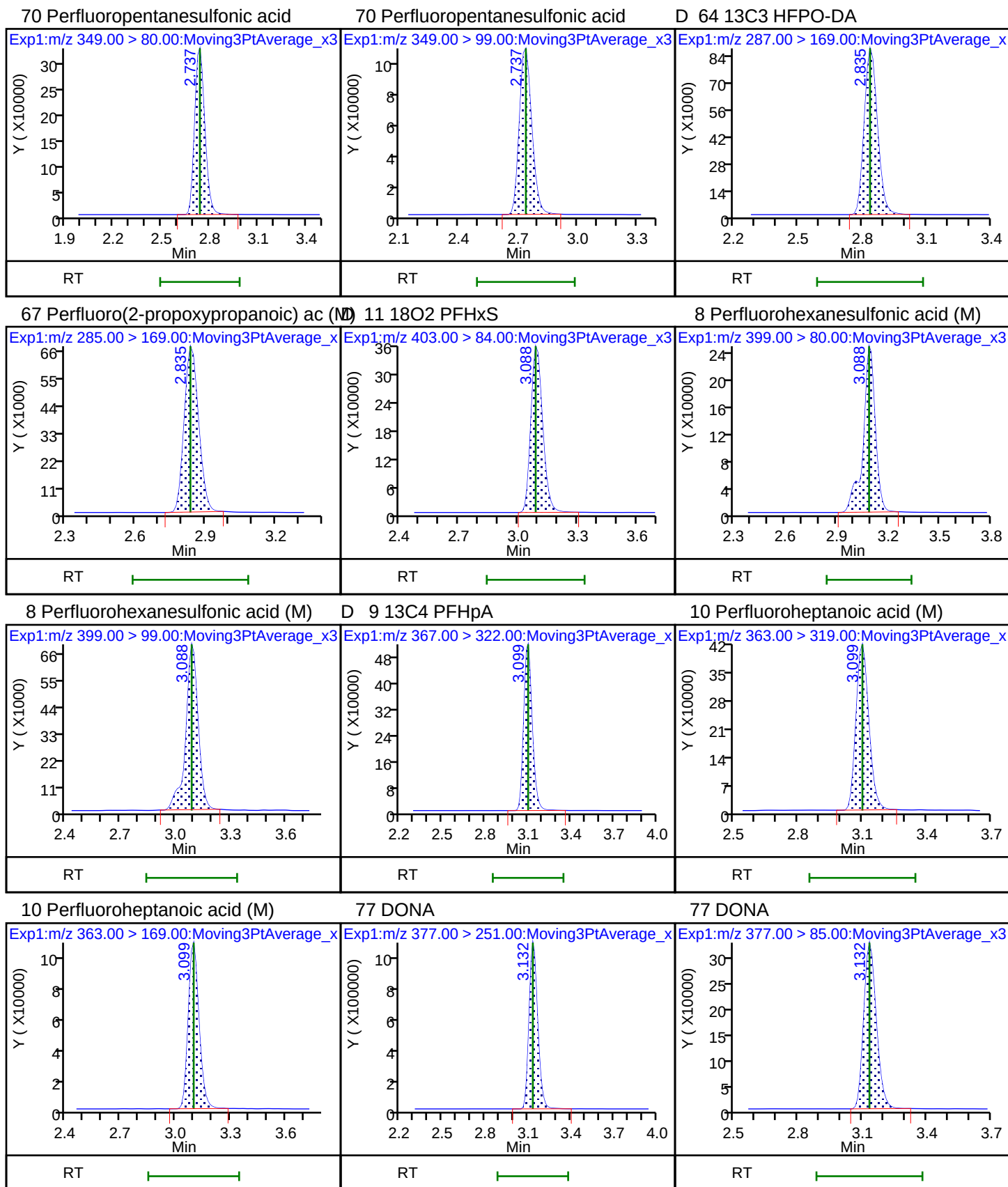


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

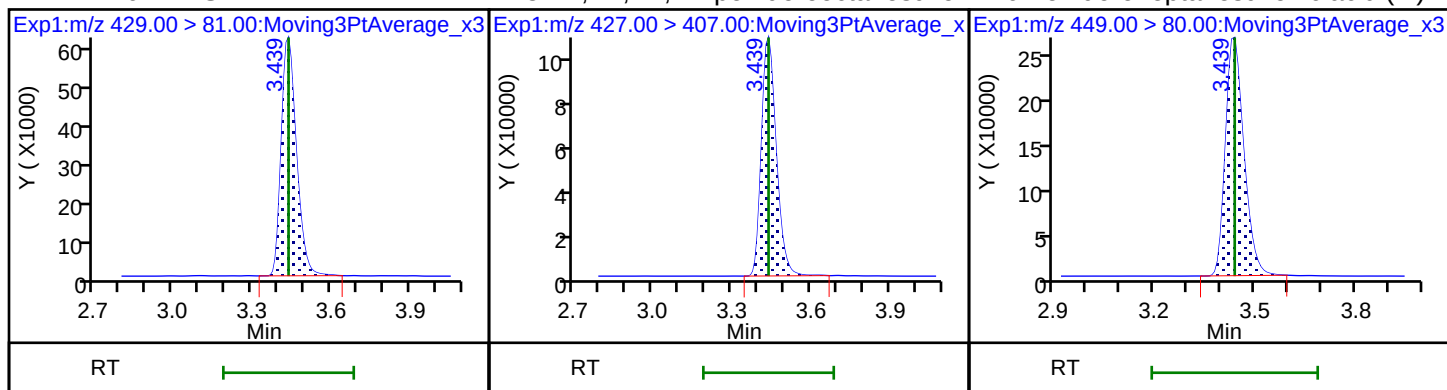




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

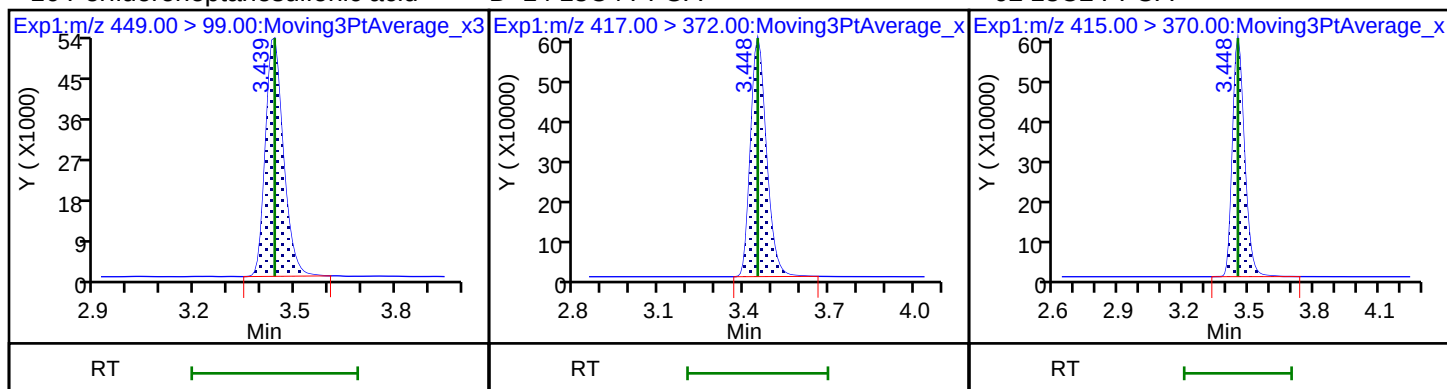
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

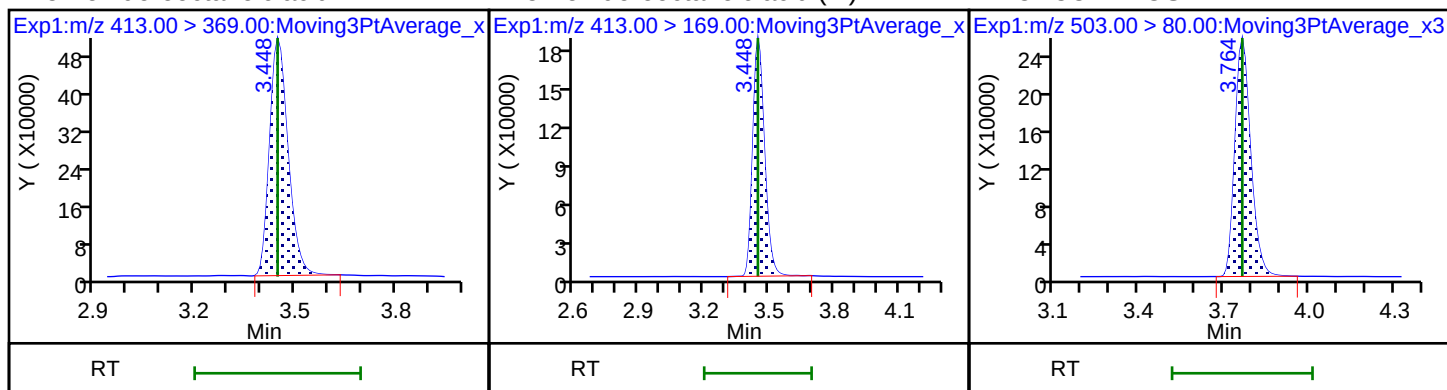
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

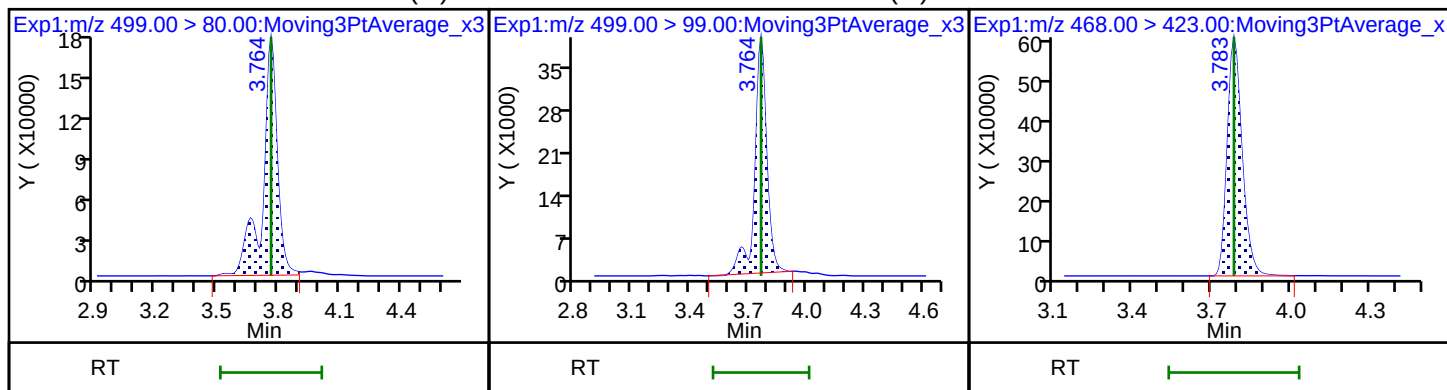
D 18 13C4 PFOS

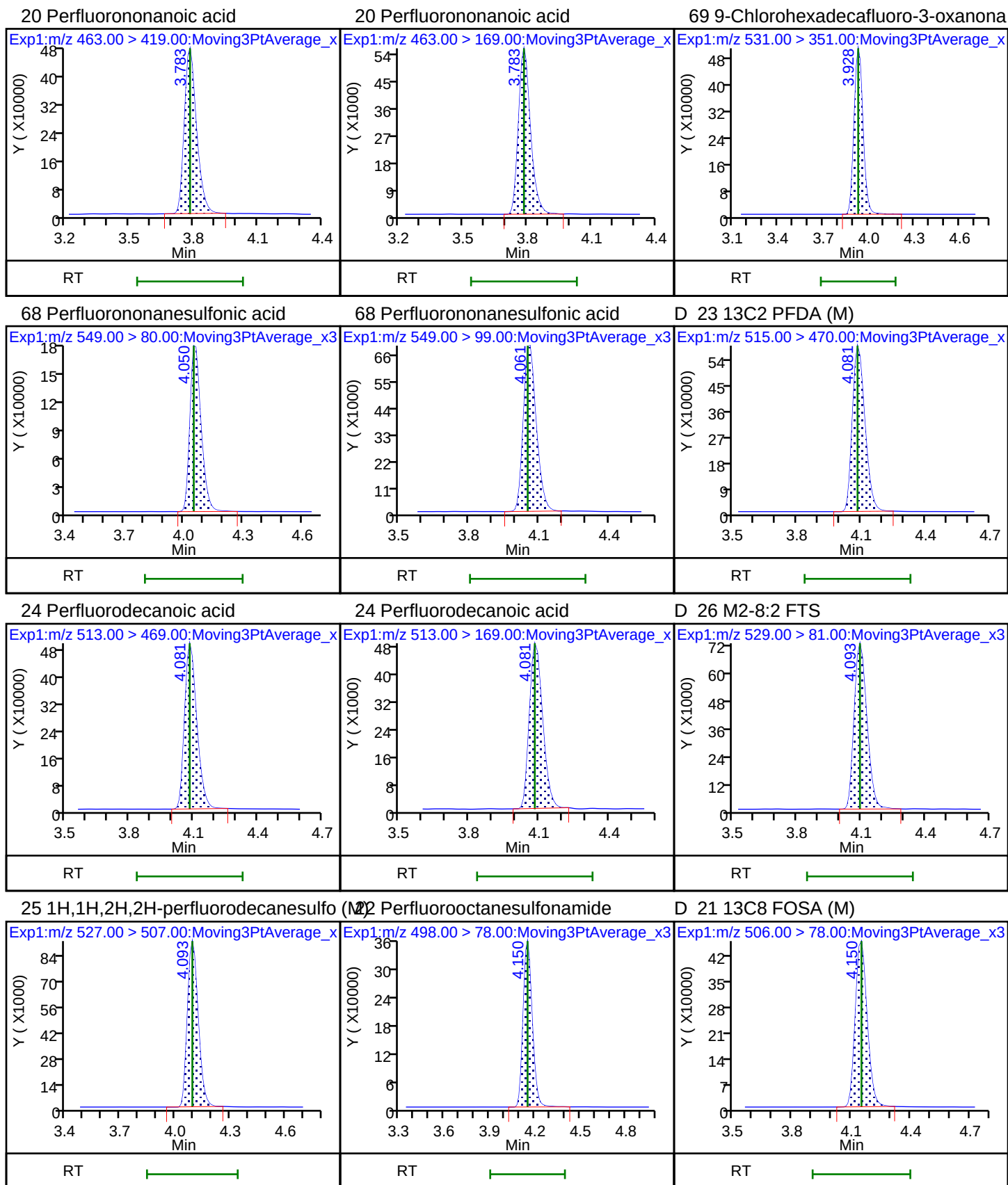


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

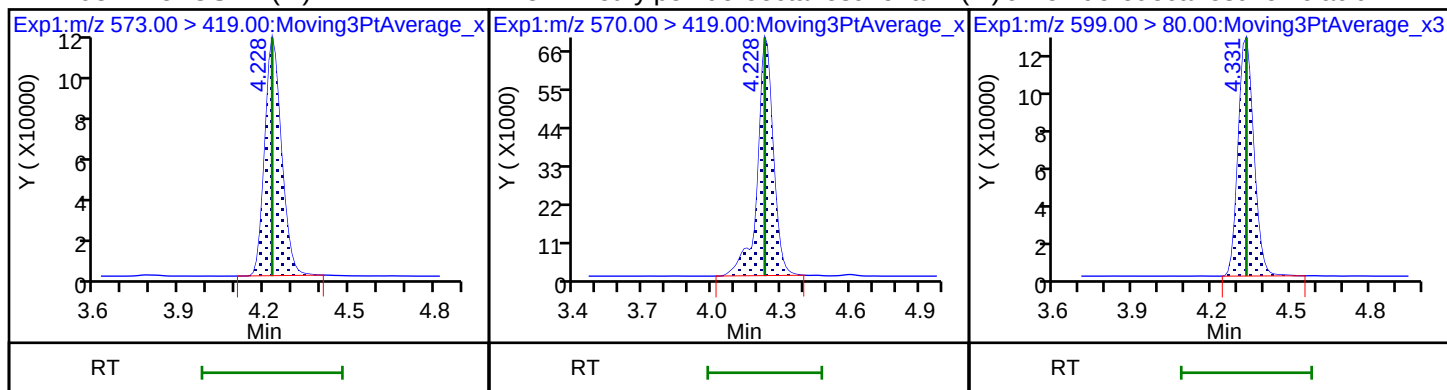




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

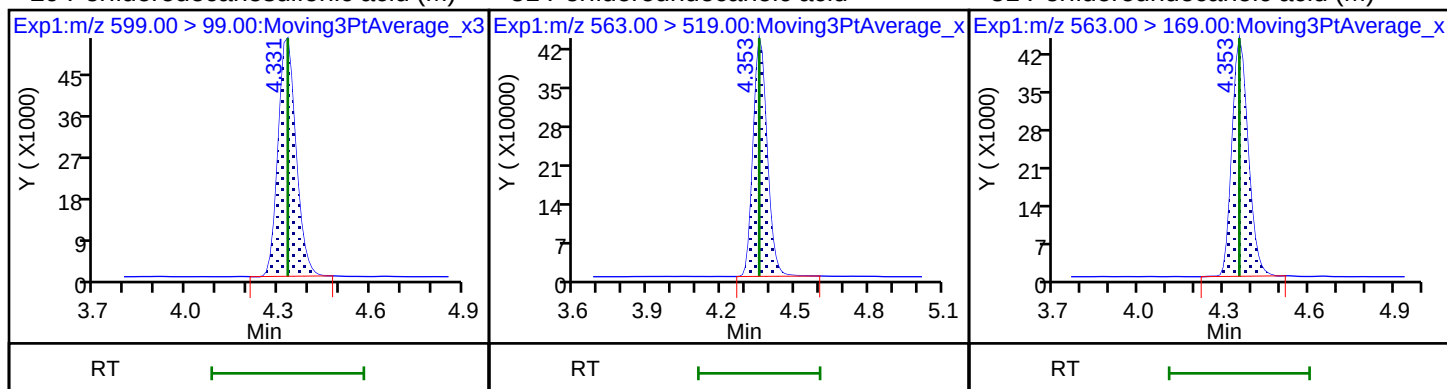
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

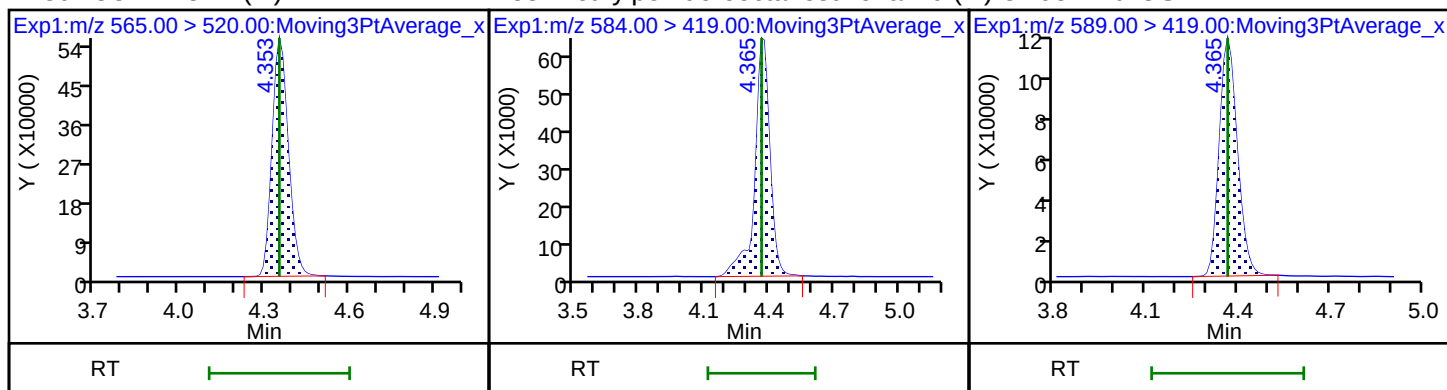
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA (M)

33 N-ethylperfluorooctanesulfonamid (M)

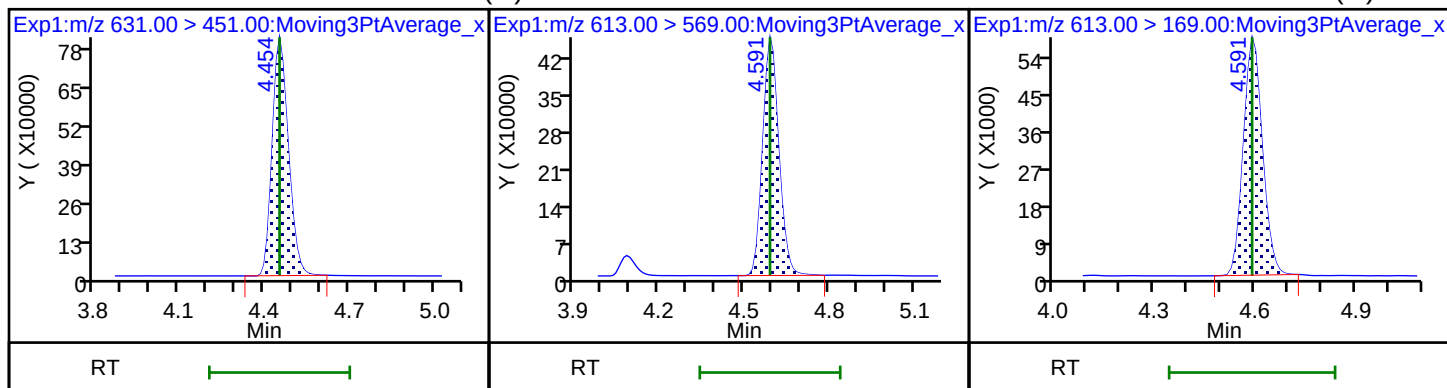
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

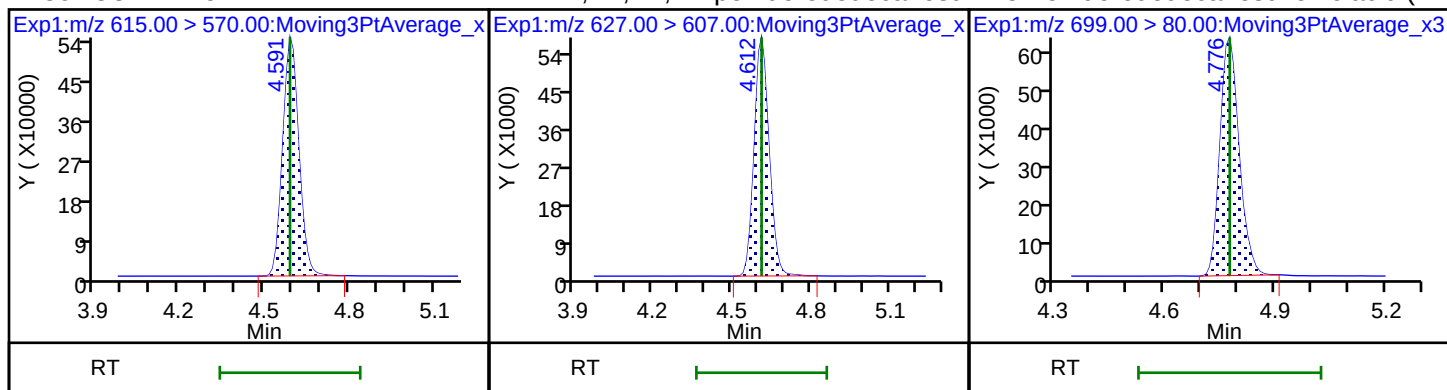
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



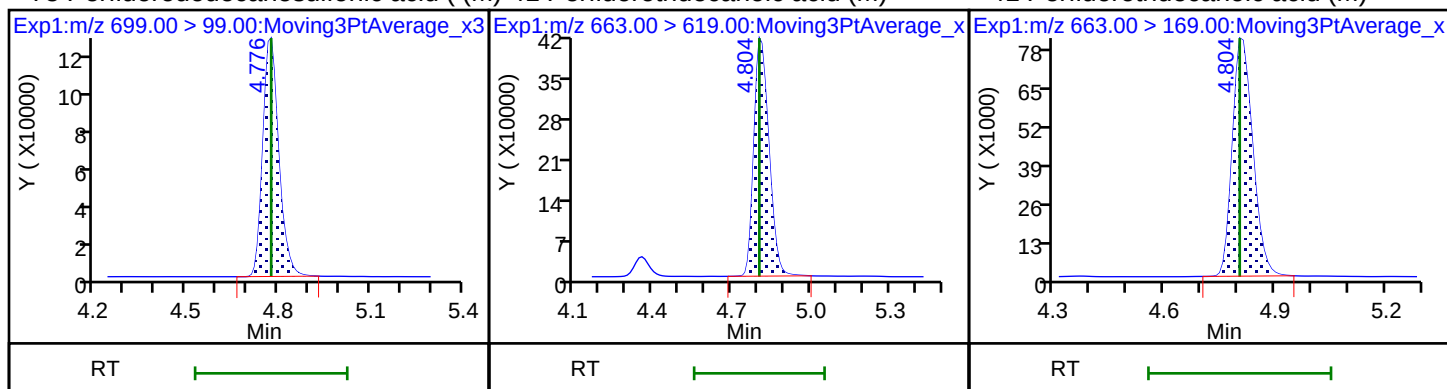
D 36 13C2 PFD0A

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

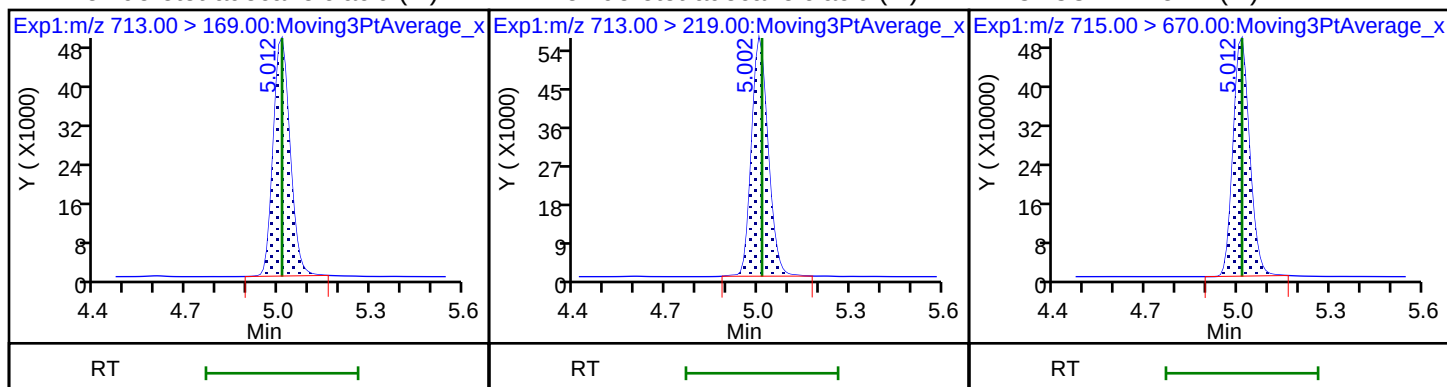
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

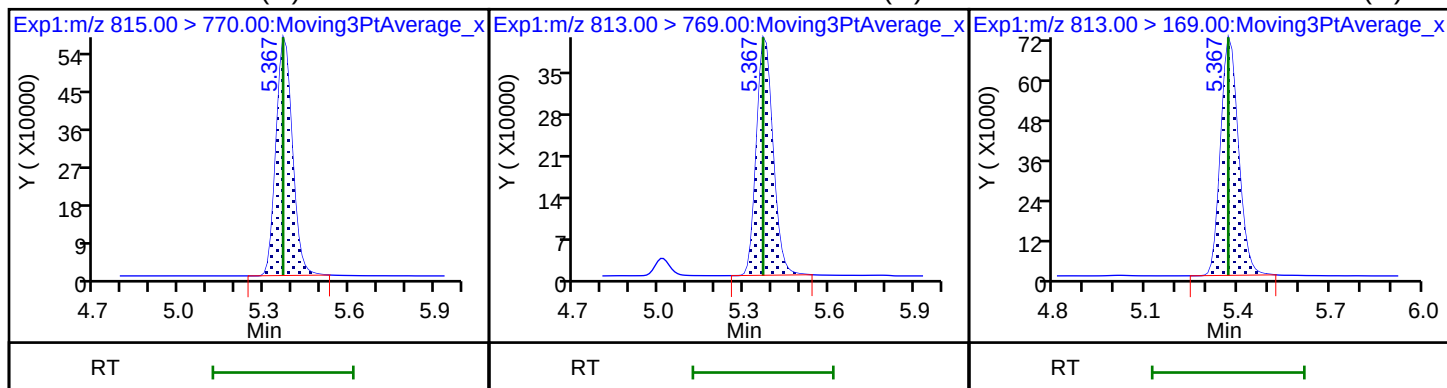
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

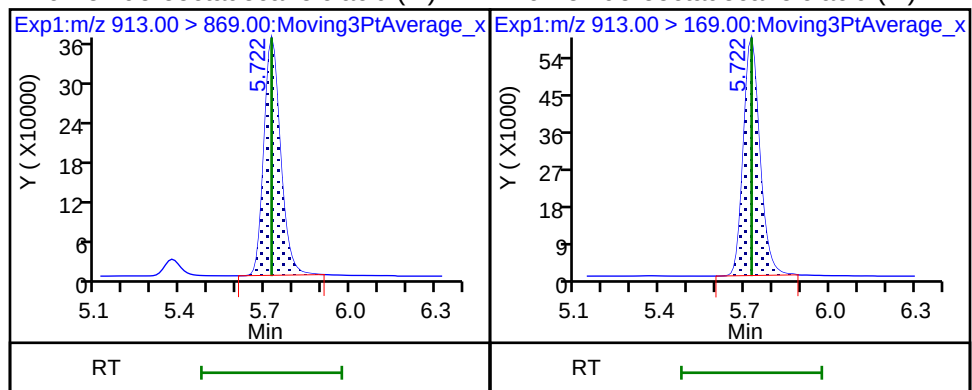
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

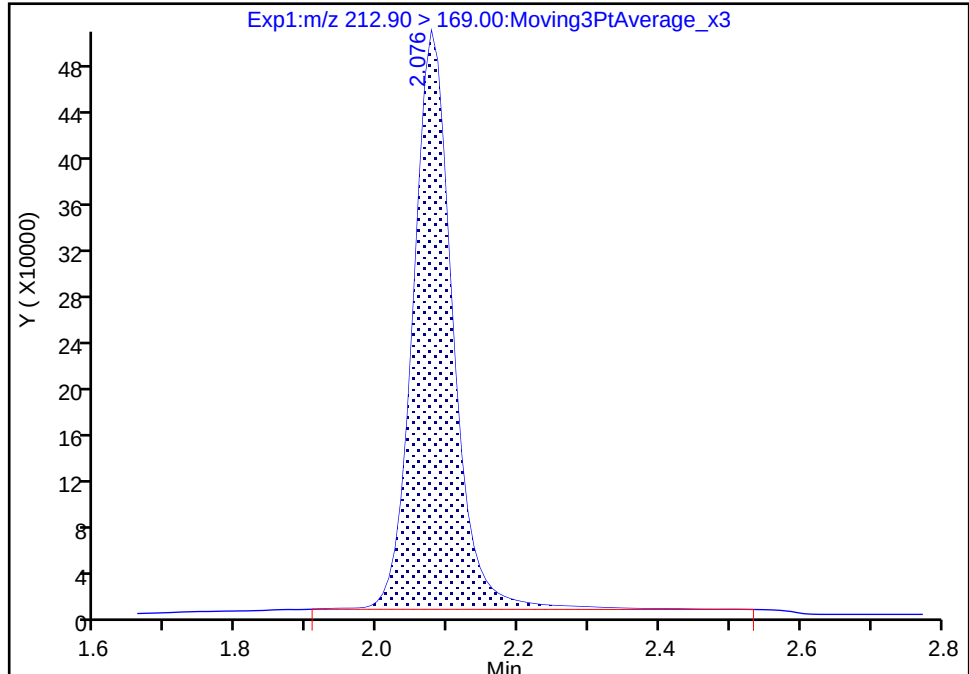
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

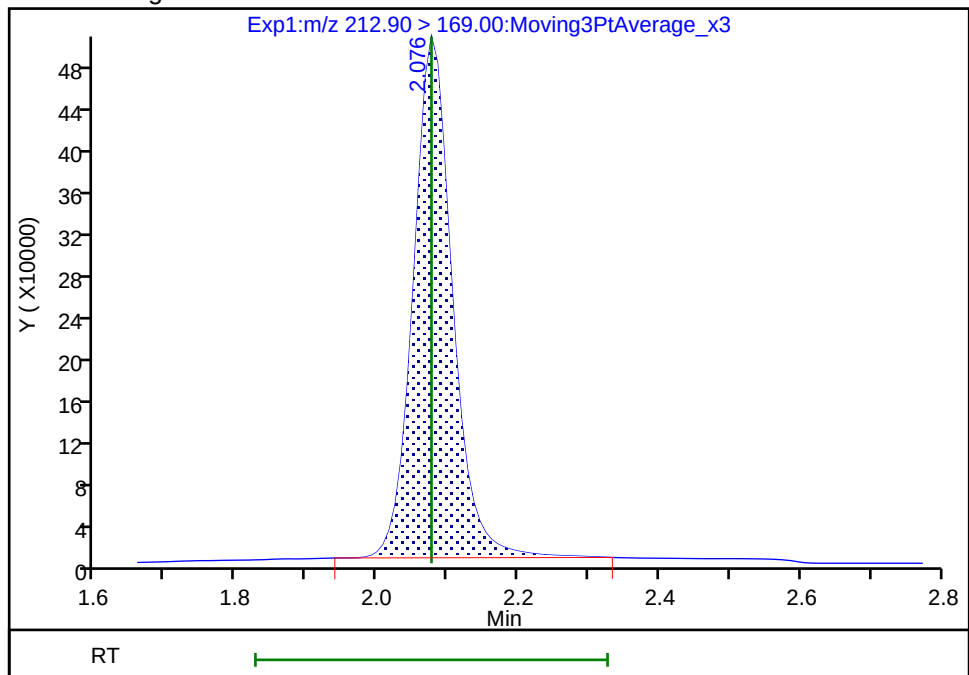
RT: 2.08
Area: 1938856
Amount: 0.884944
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1911392
Amount: 0.914020
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

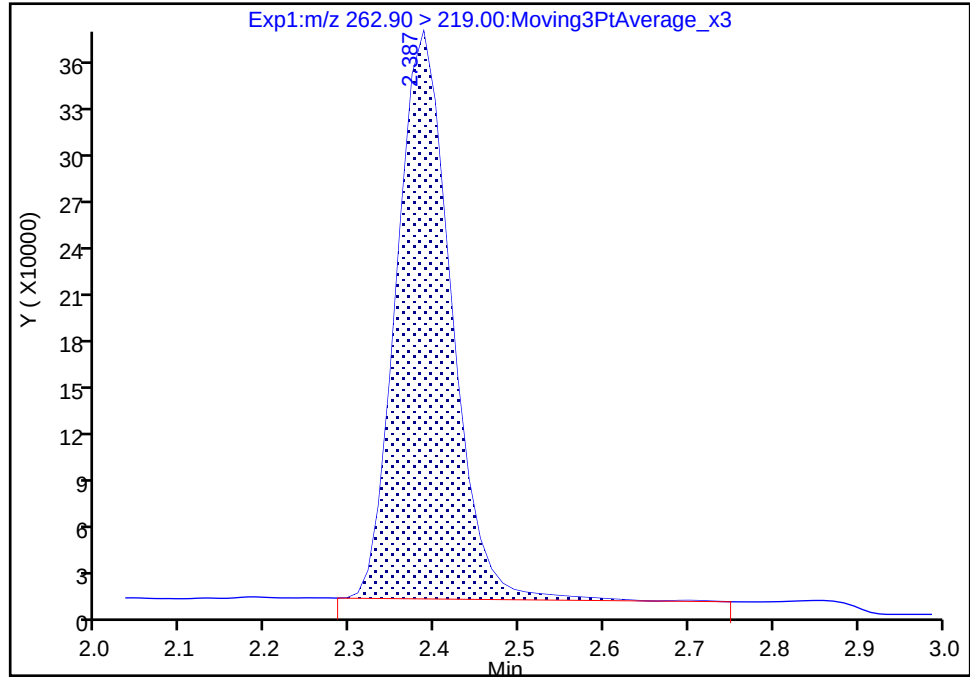
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

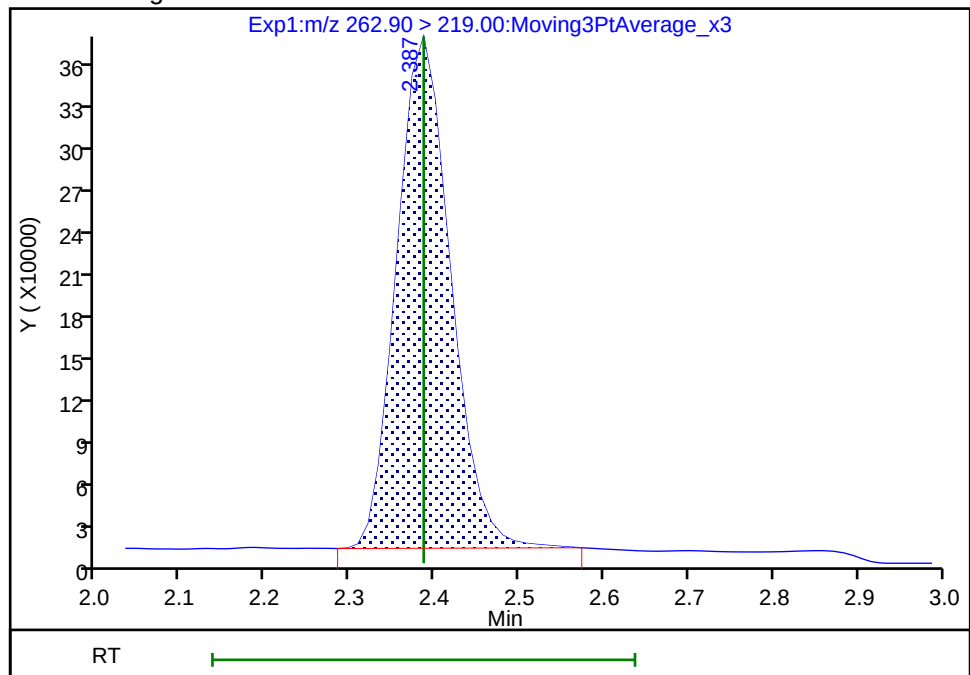
RT: 2.39
Area: 1625686
Amount: 0.903106
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1602160
Amount: 0.929116
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:05:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

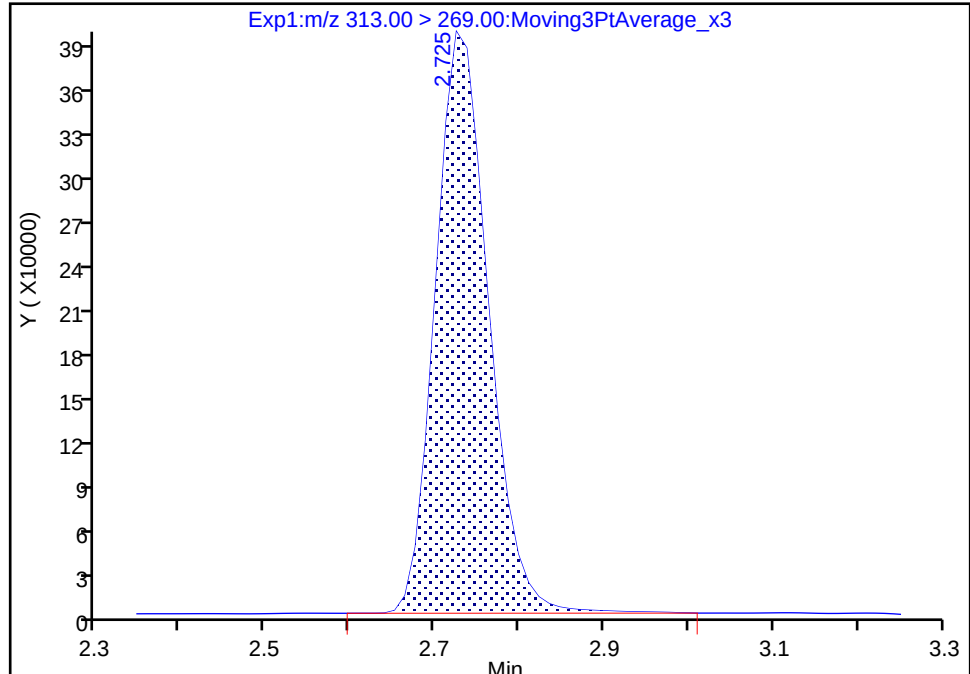
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

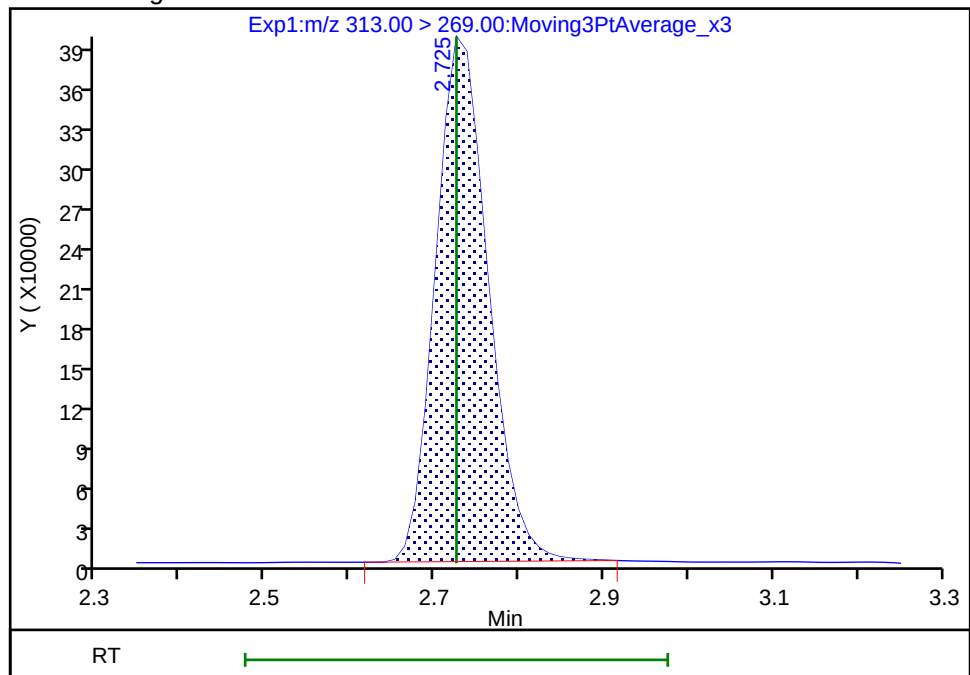
RT: 2.73
Area: 1717760
Amount: 0.925315
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1703495
Amount: 0.950815
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

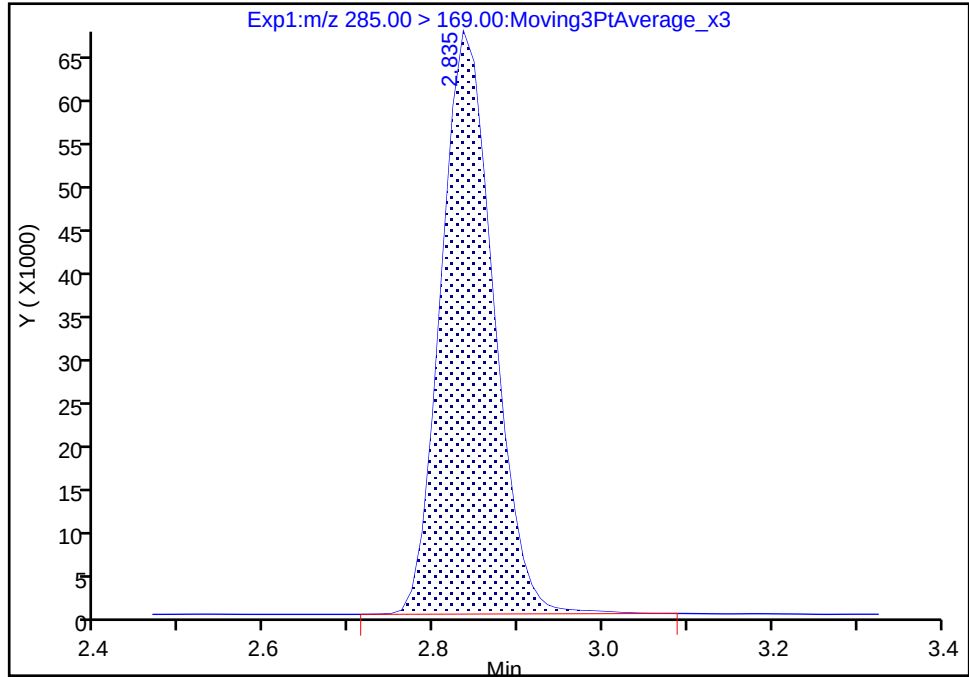
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

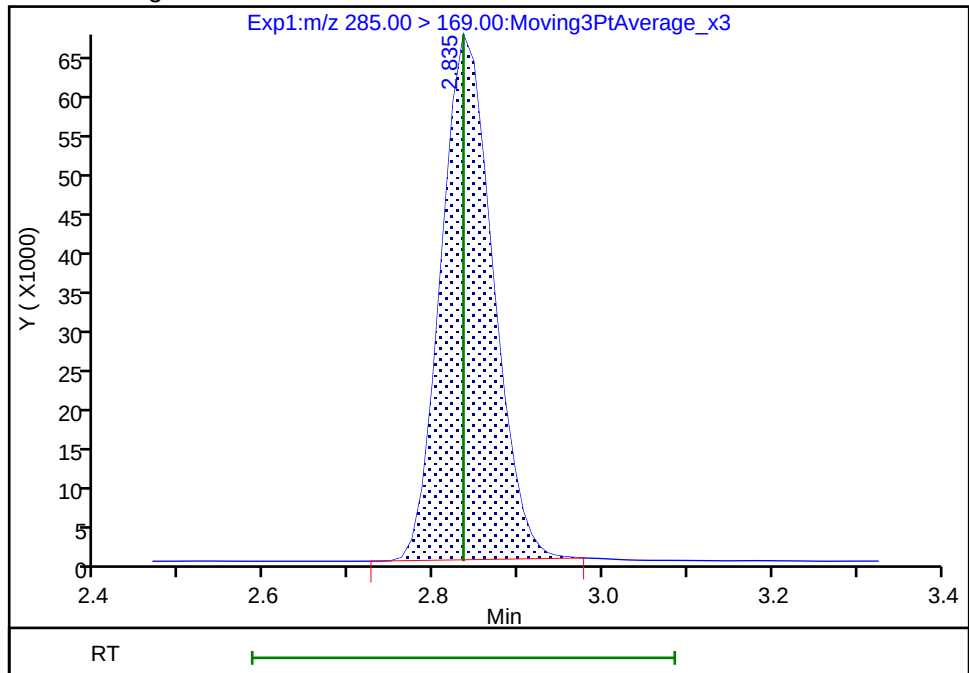
RT: 2.83
Area: 290381
Amount: 0.890585
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 286947
Amount: 0.910963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

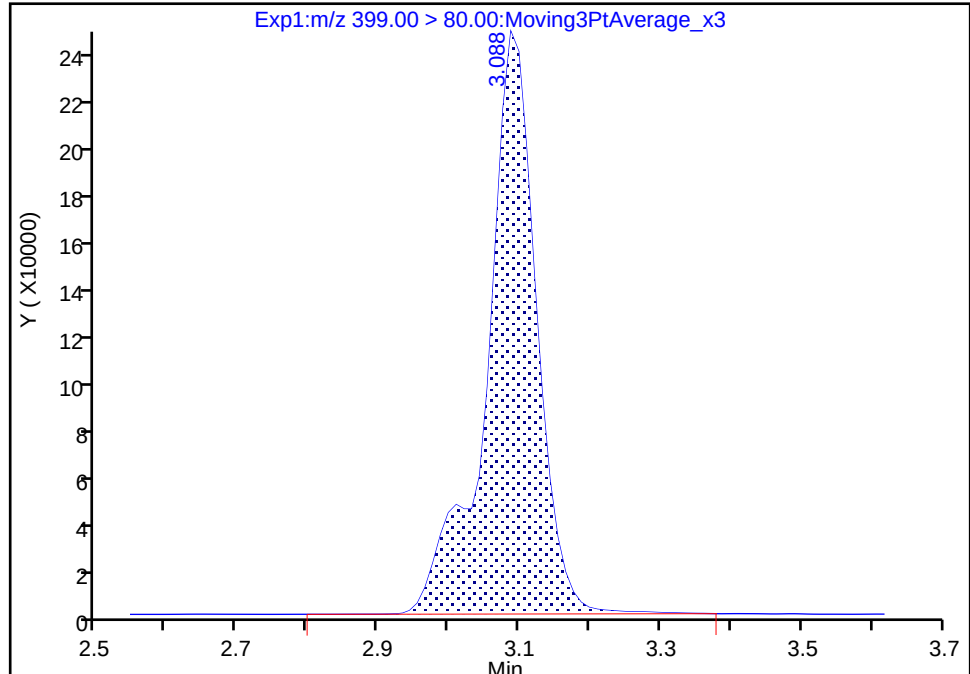
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

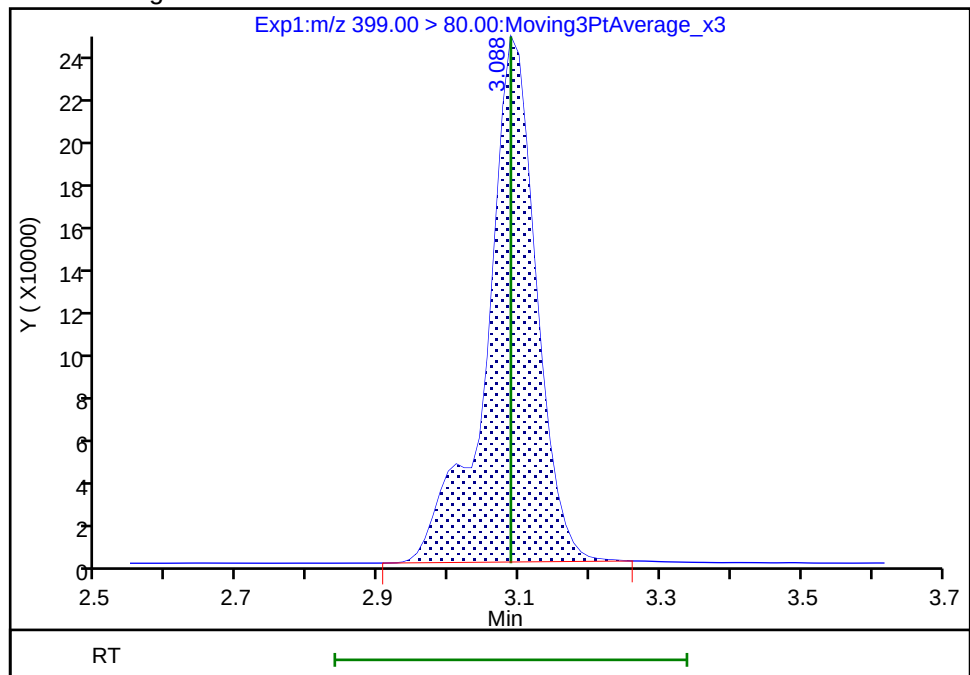
RT: 3.09
Area: 1192403
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1180858
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

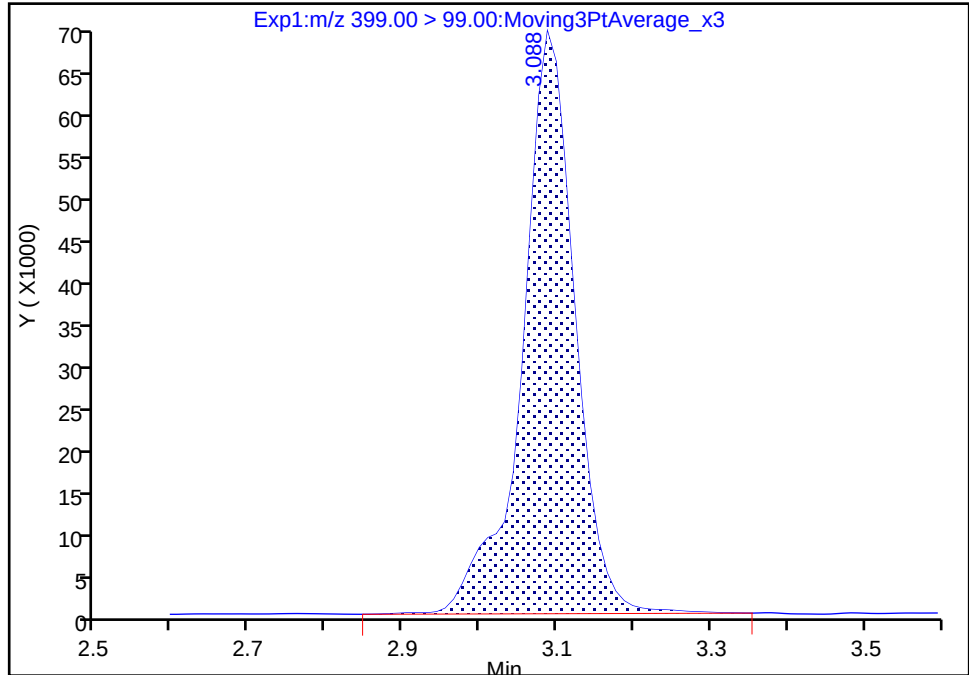
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

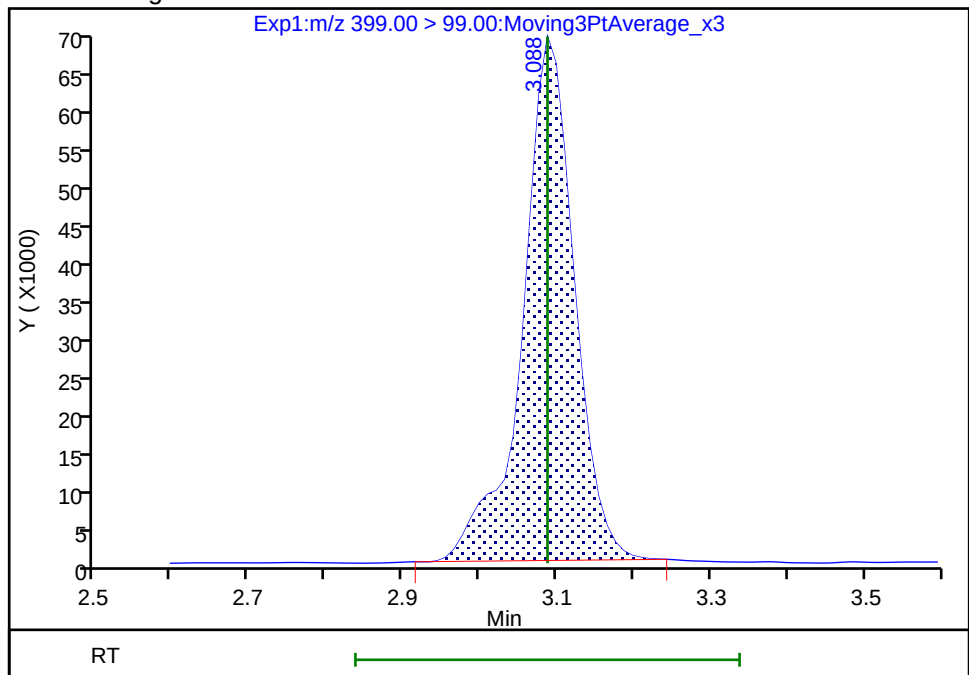
RT: 3.09
Area: 329620
Amount: 0.844733
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 322894
Amount: 0.853808
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 390 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

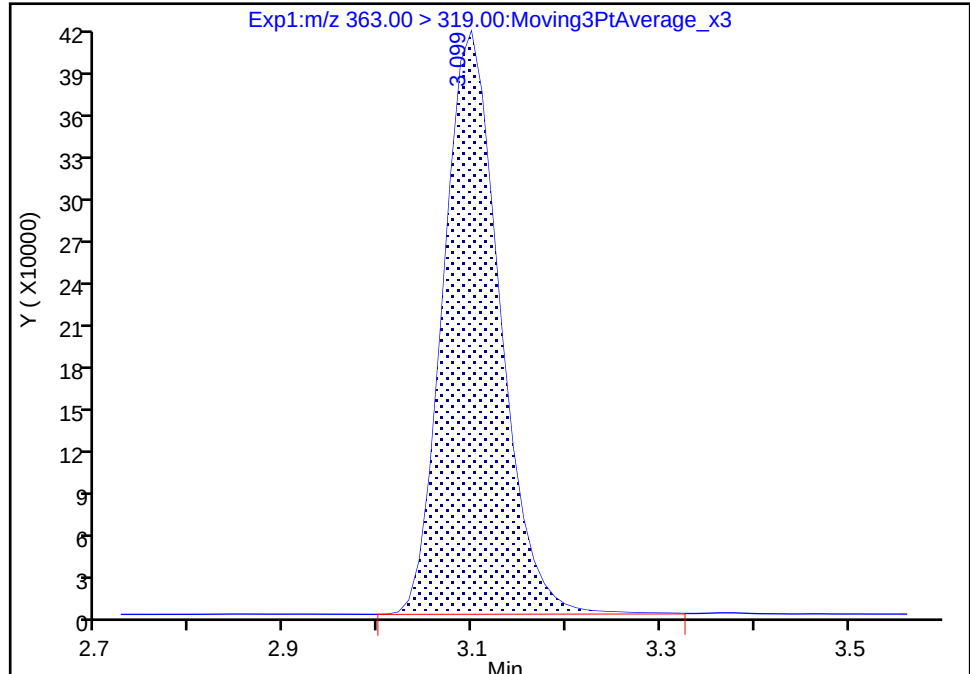
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

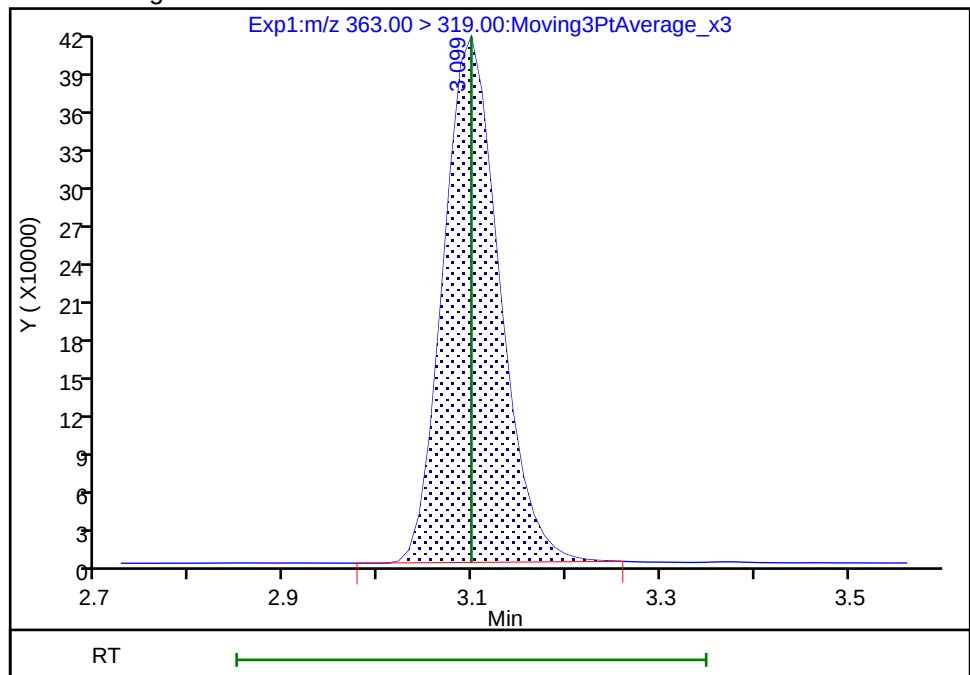
RT: 3.10
Area: 1732207
Amount: 0.896761
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1718424
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

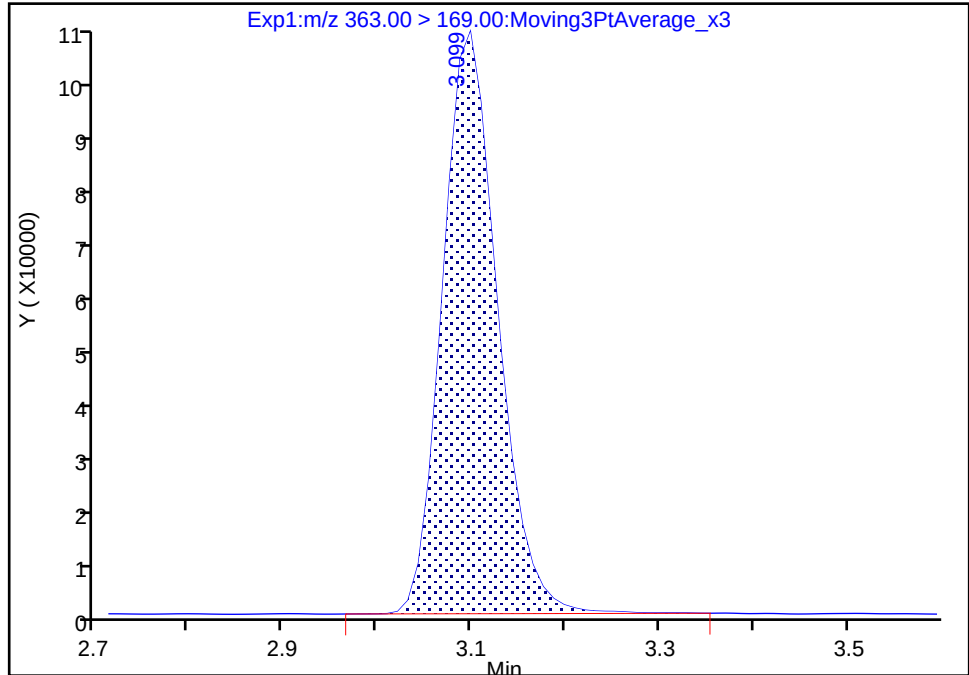
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

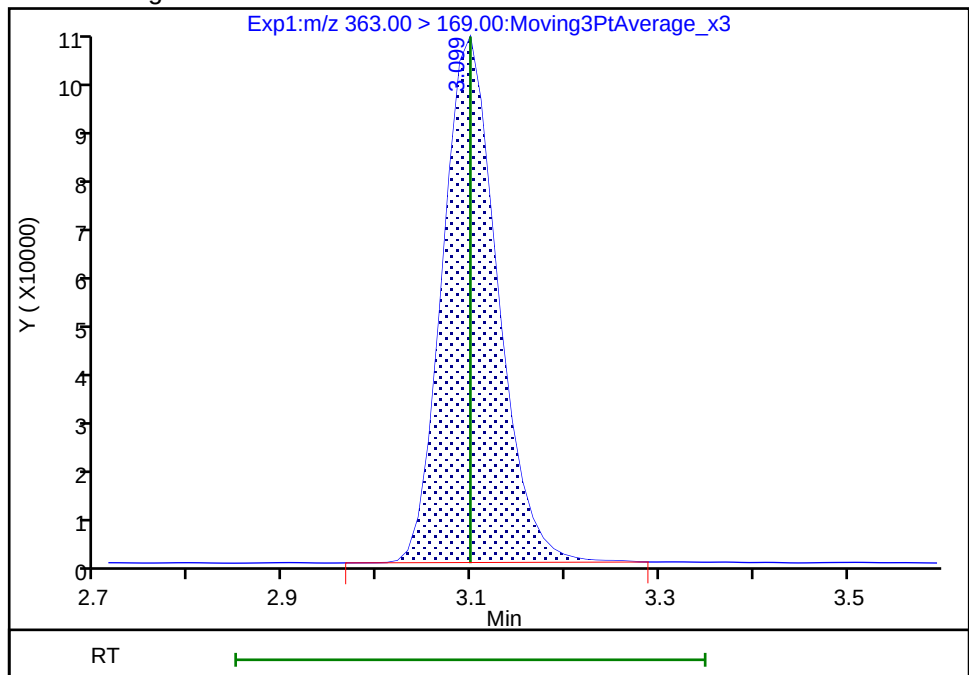
RT: 3.10
Area: 434169
Amount: 0.896761
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 433271
Amount: 0.929257
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

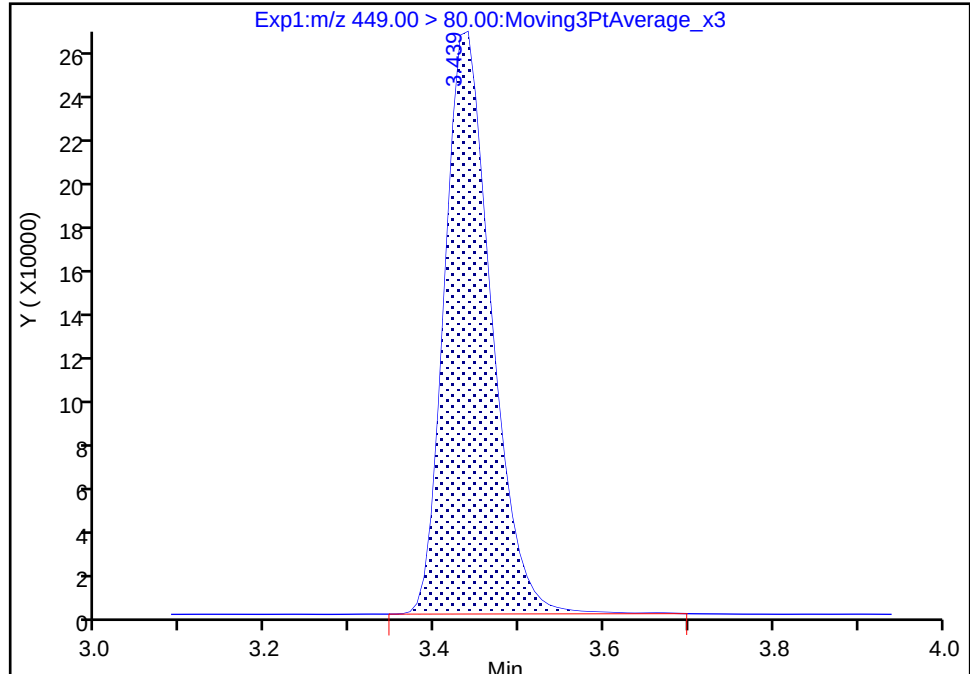
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

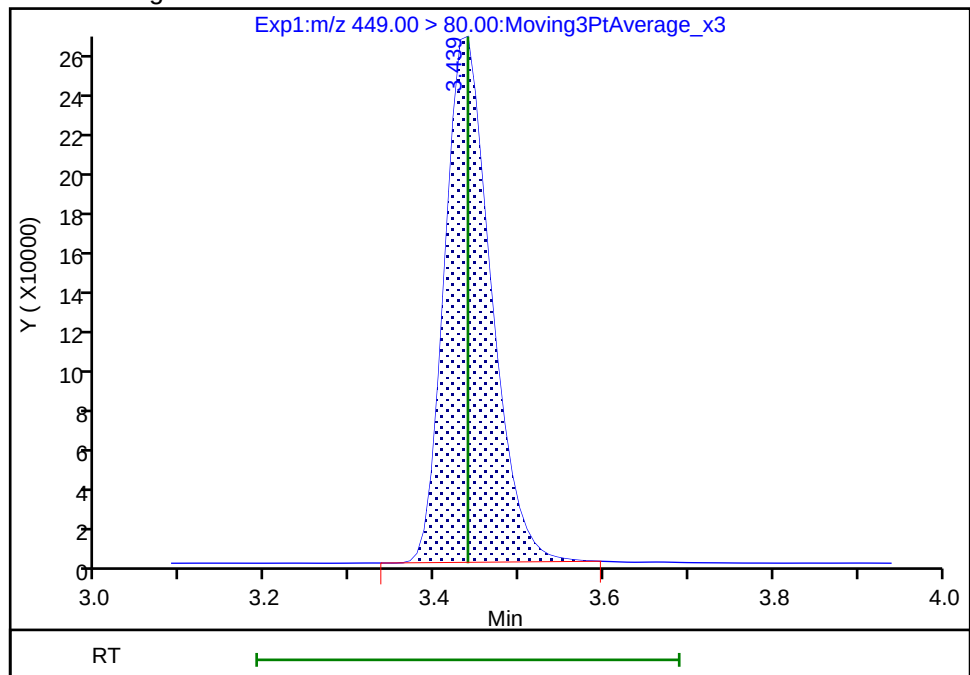
RT: 3.44
Area: 1029711
Amount: 0.878234
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1021904
Amount: 0.903742
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:06:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

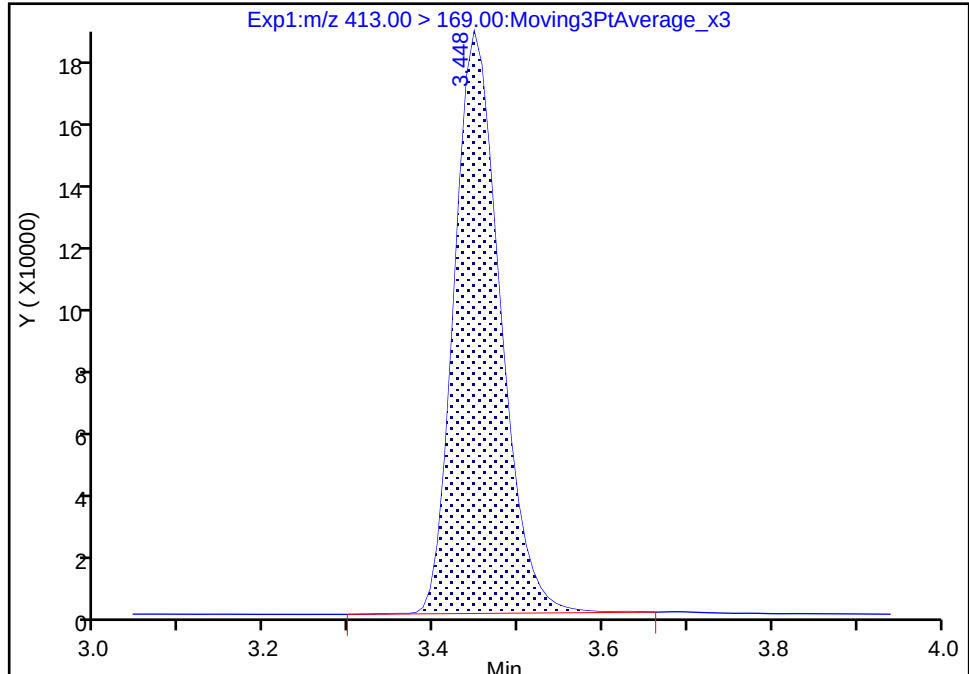
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

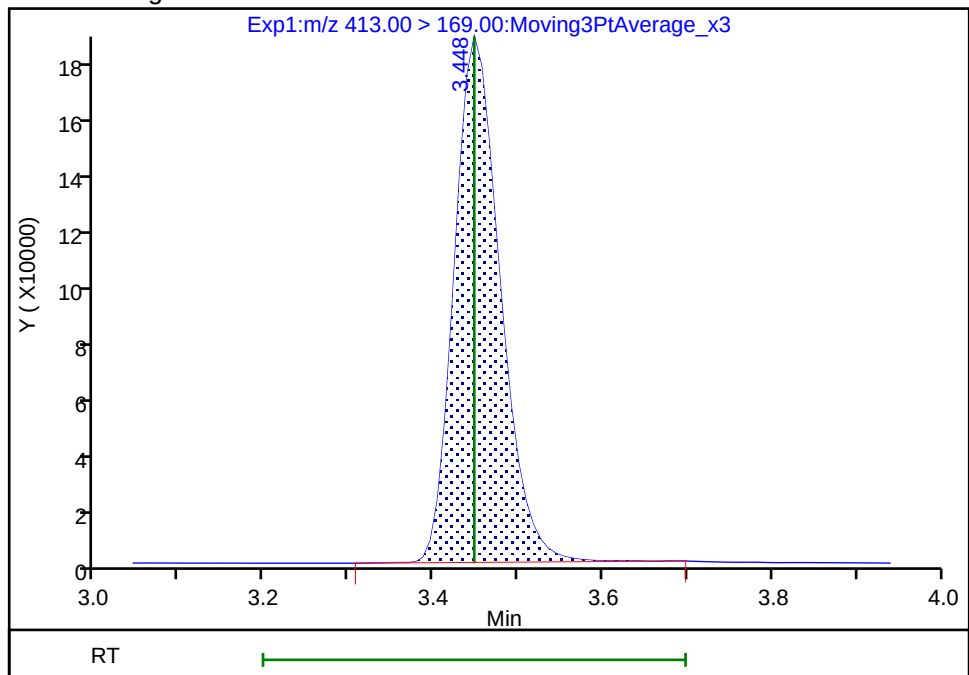
RT: 3.45
Area: 697013
Amount: 0.942395
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 696928
Amount: 0.971476
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

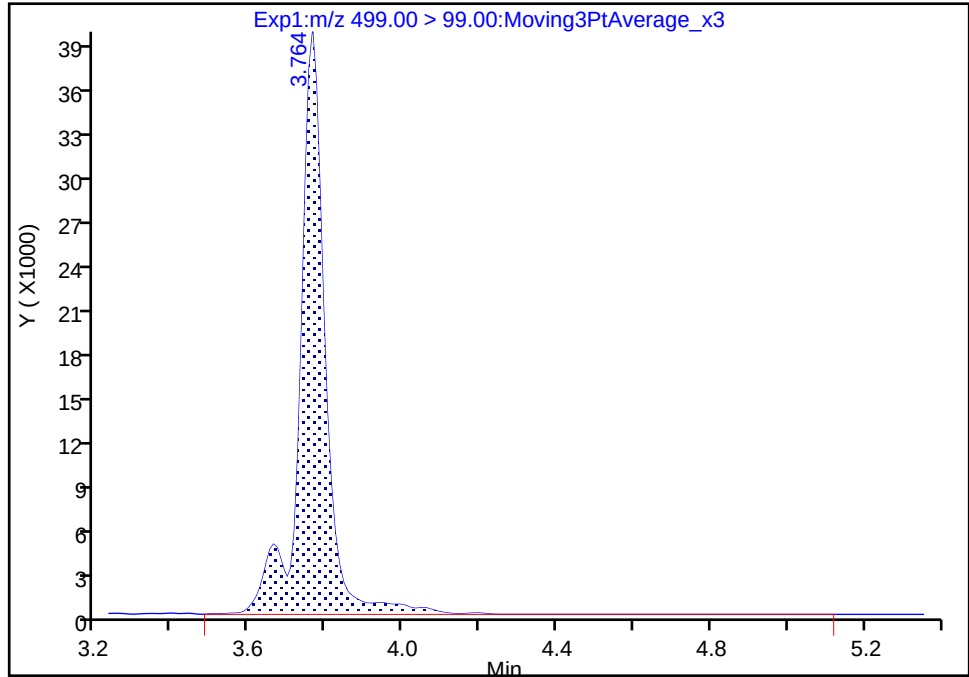
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

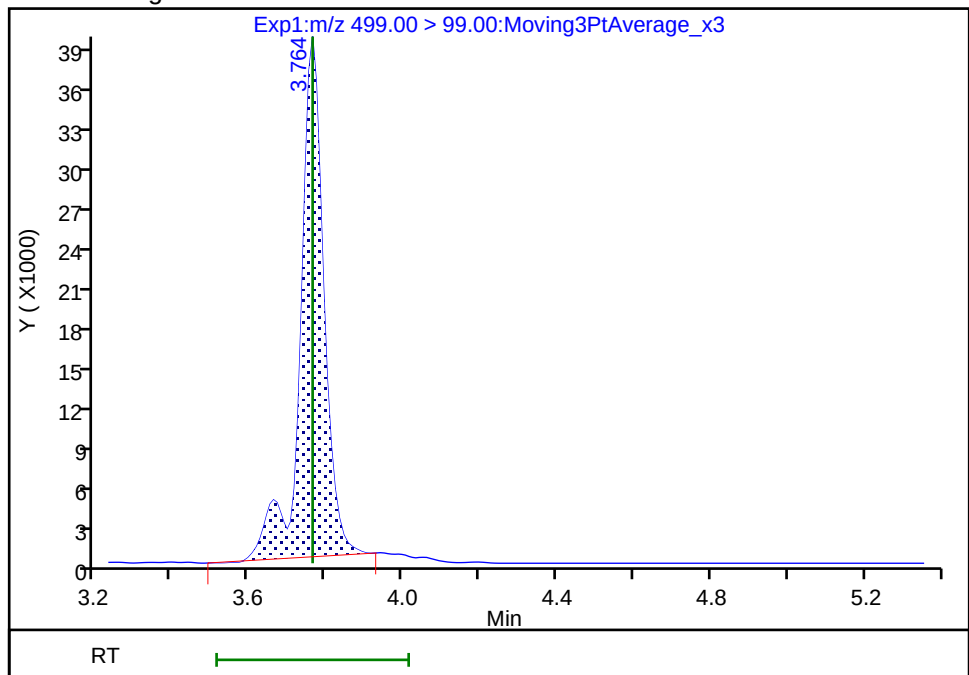
RT: 3.76
Area: 184243
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 167691
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

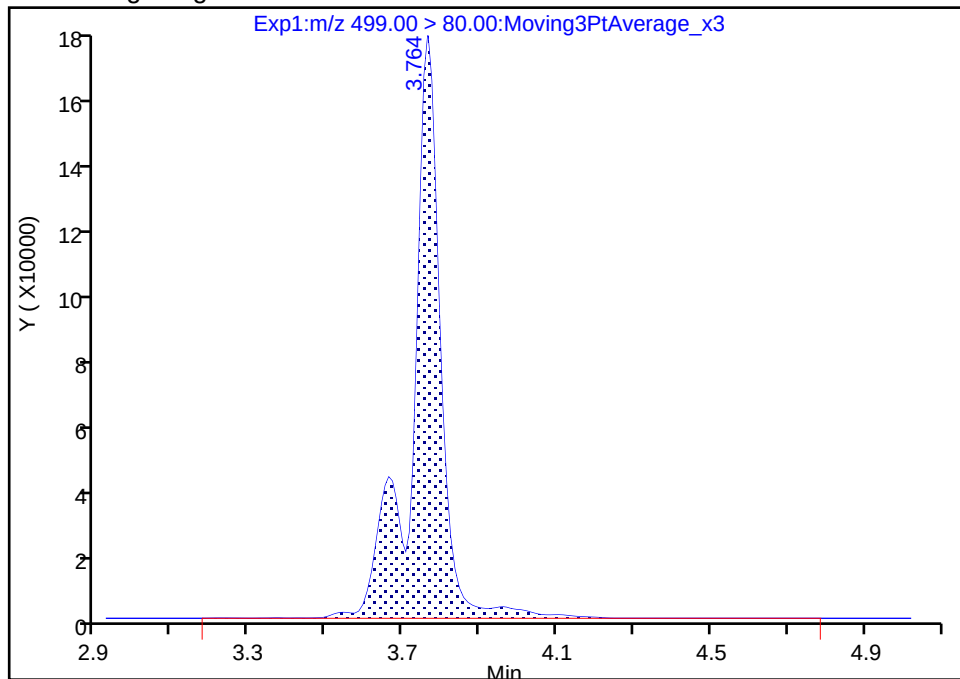
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

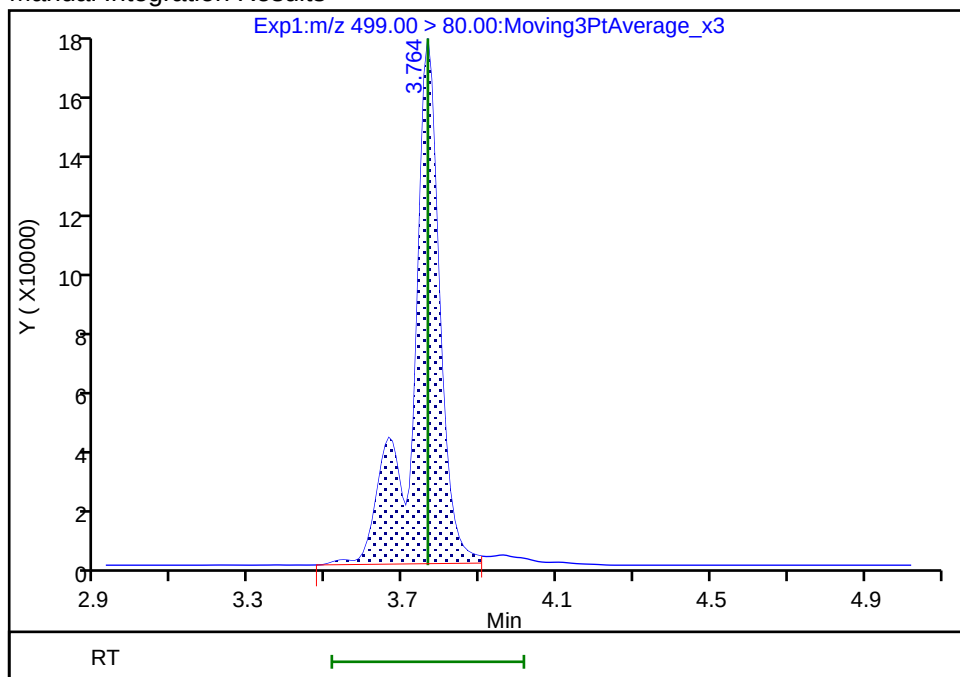
RT: 3.76
Area: 896764
Amount: 0.869089
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 856526
Amount: 0.869962
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 396 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

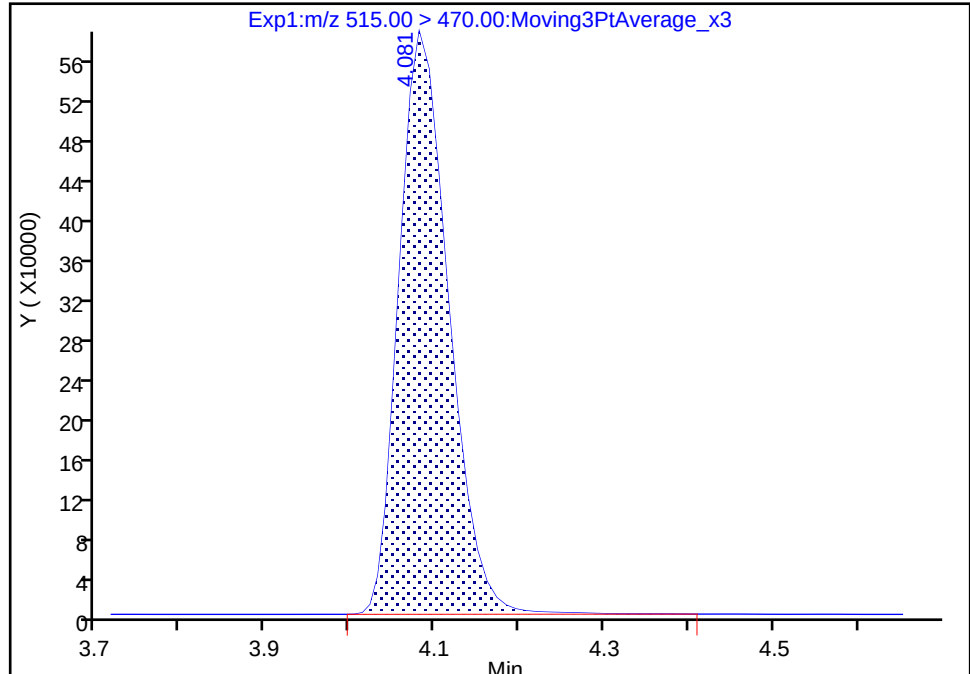
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

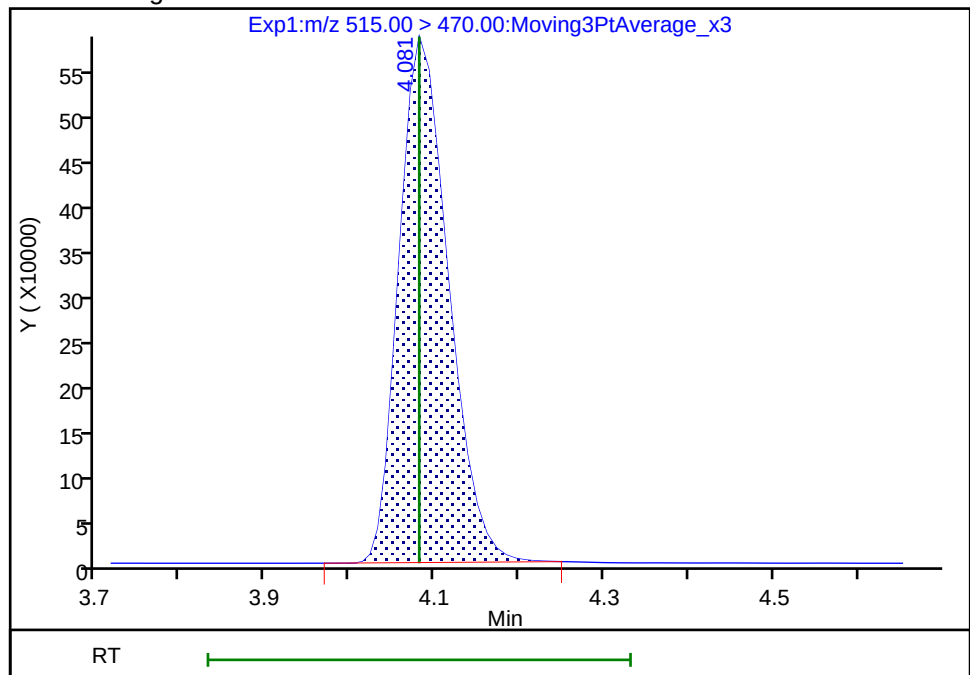
RT: 4.08
Area: 2402943
Amount: 1.278353
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2384612
Amount: 1.249811
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

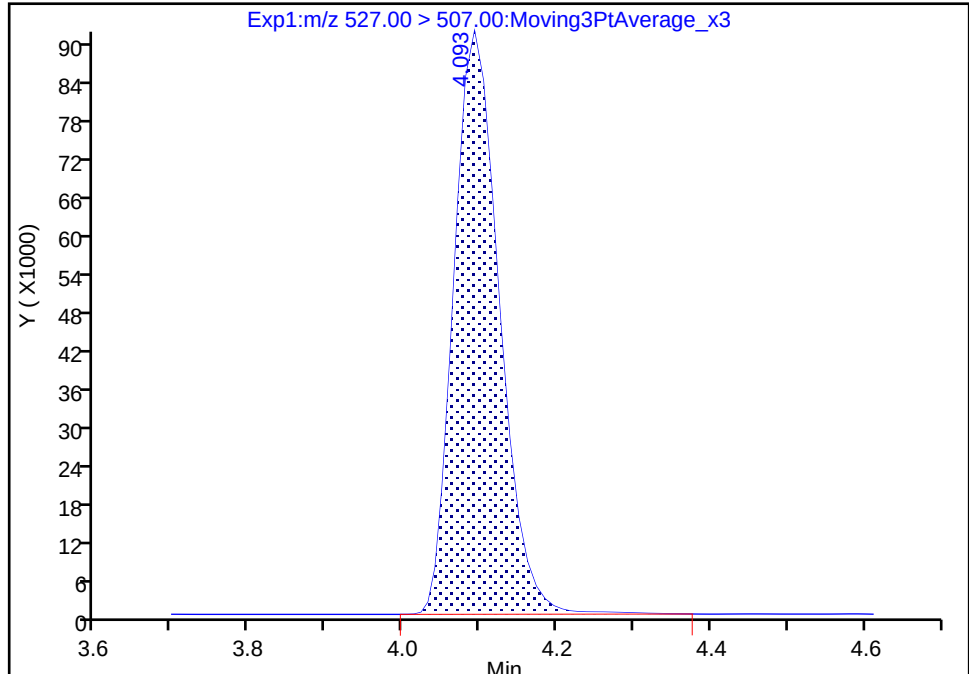
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

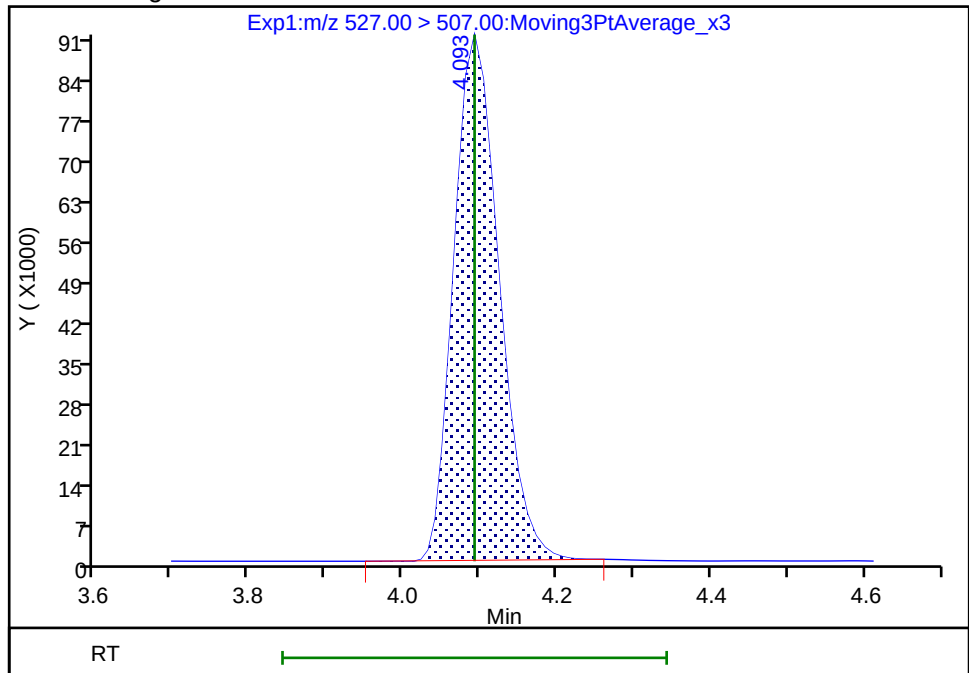
RT: 4.09
Area: 374620
Amount: 0.906768
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 370895
Amount: 0.914804
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

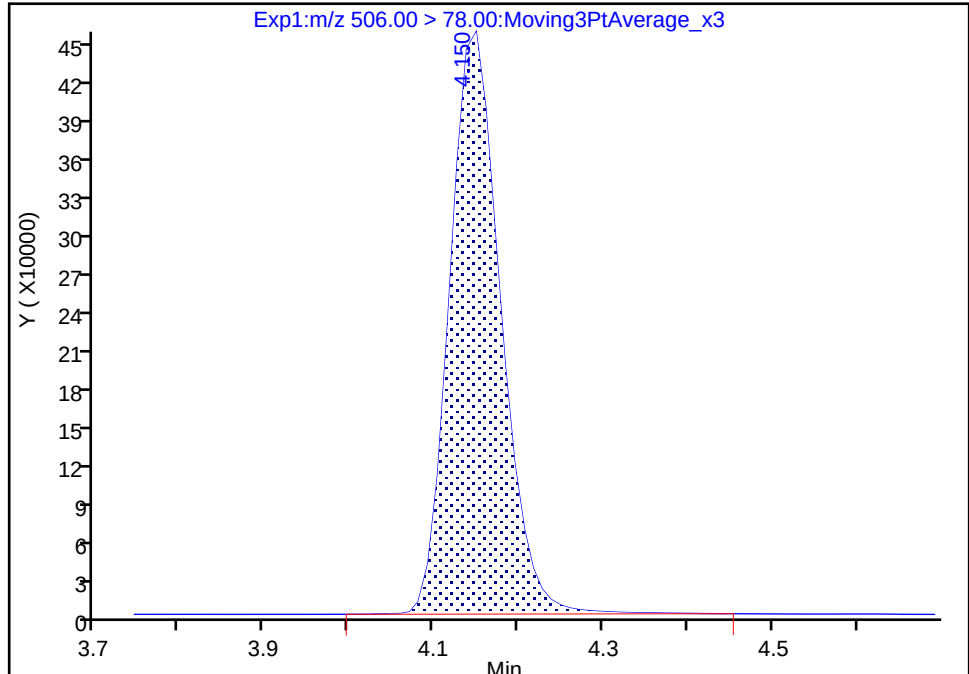
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

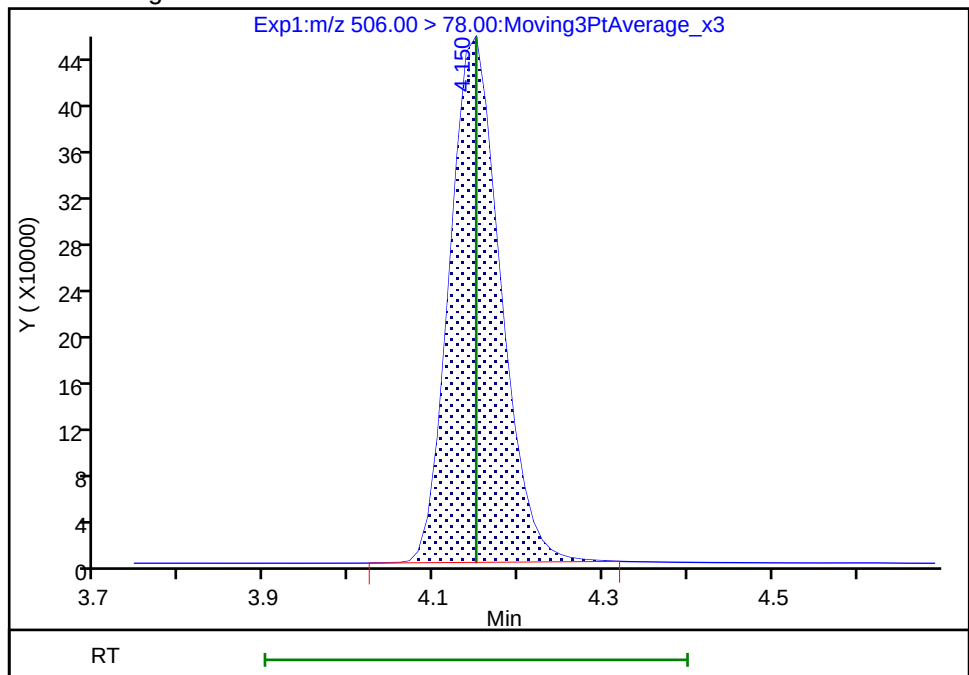
RT: 4.15
Area: 1894765
Amount: 1.237228
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1879604
Amount: 1.201614
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

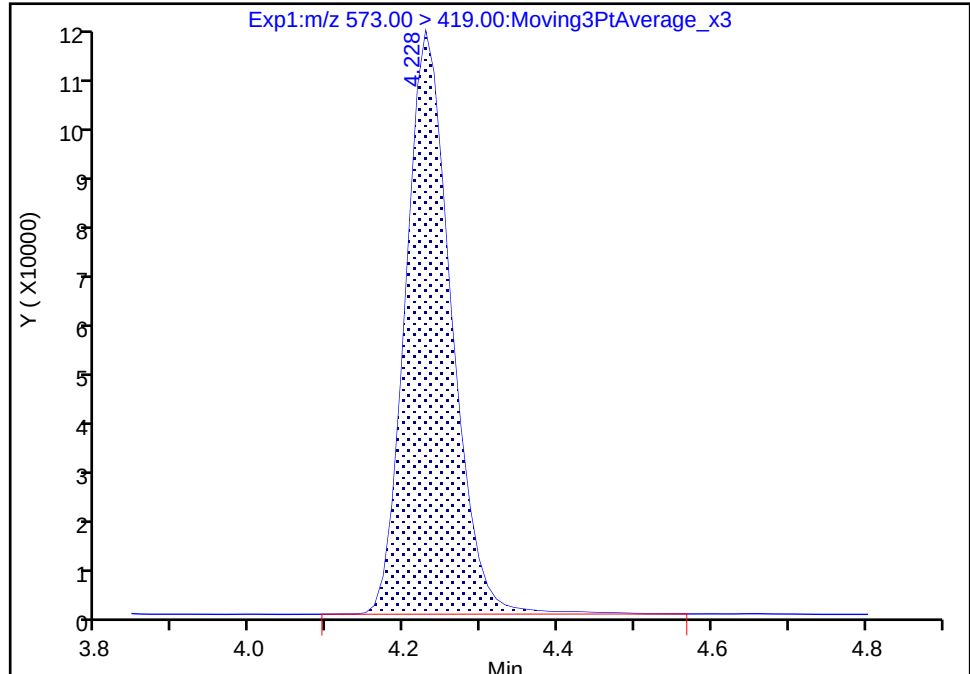
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

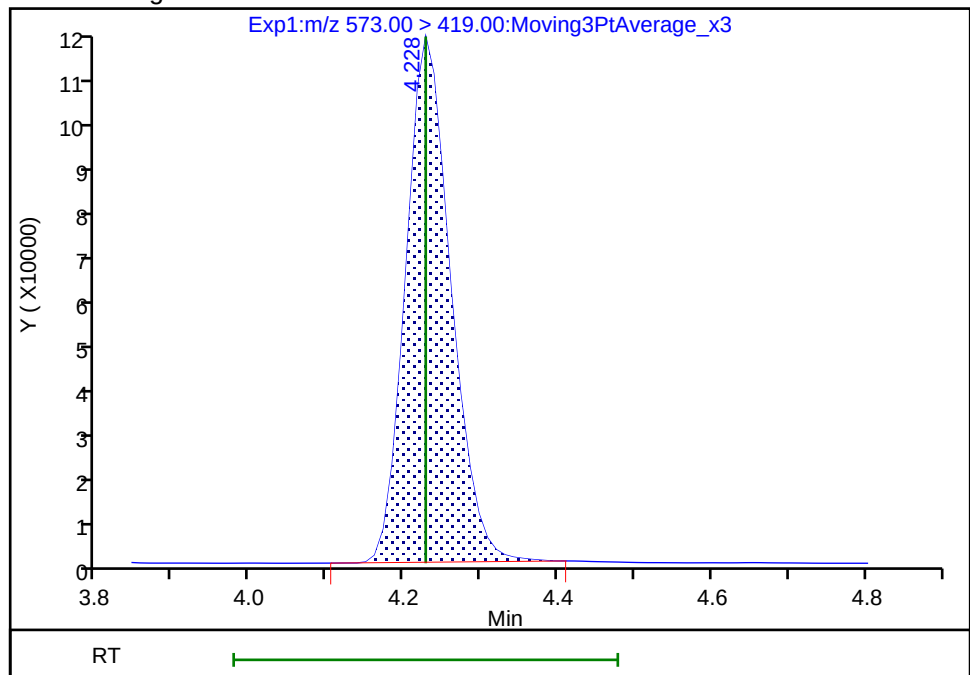
RT: 4.23
Area: 475916
Amount: 1.264715
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 470154
Amount: 1.210231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

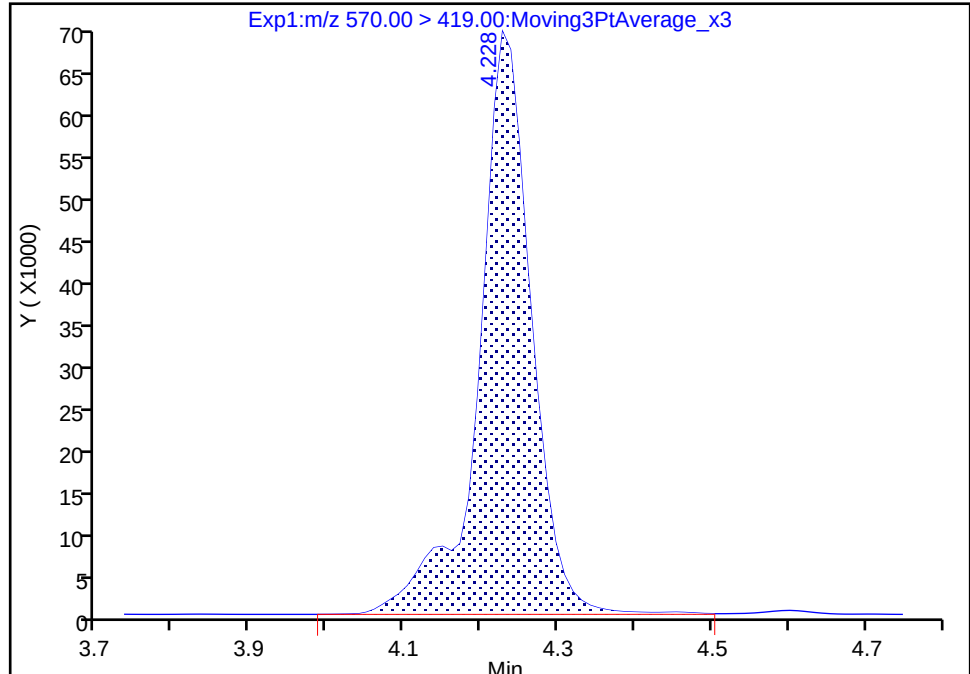
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

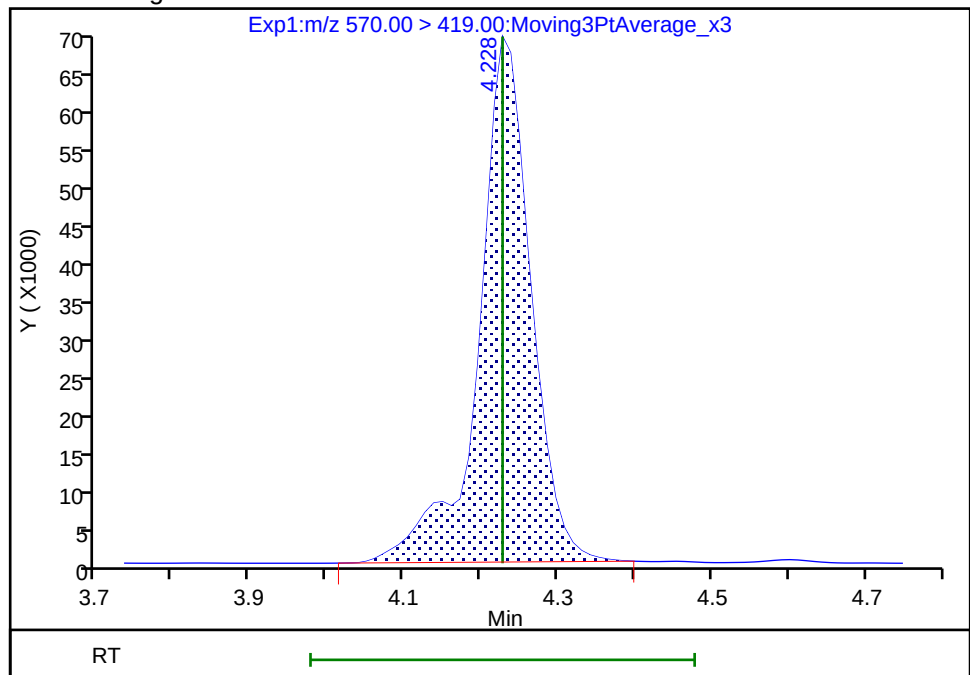
RT: 4.23
Area: 329390
Amount: 0.922352
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 324897
Amount: 0.992512
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

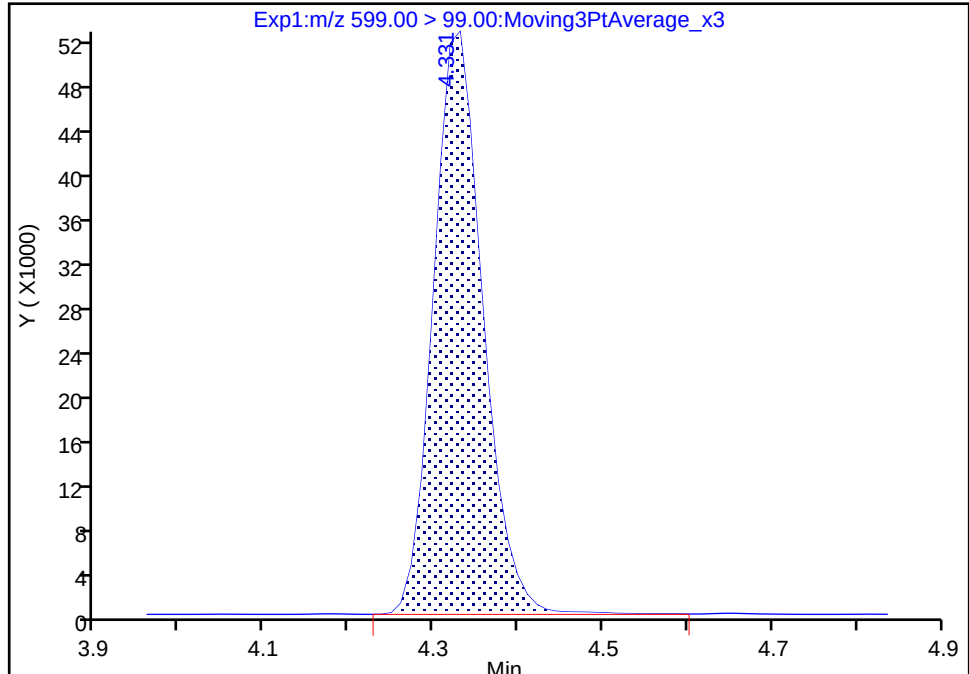
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

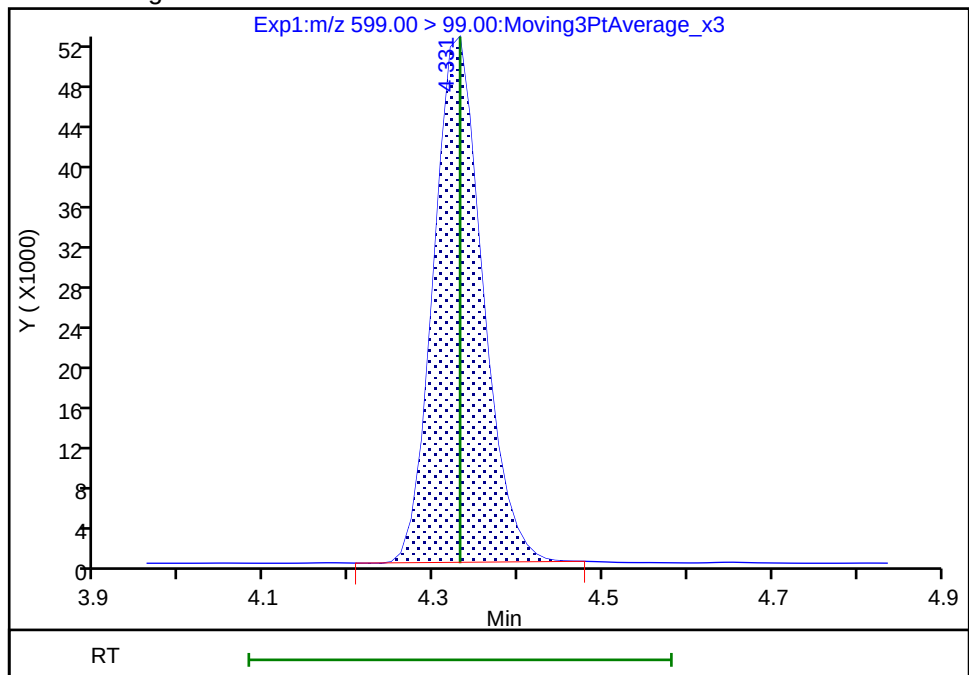
RT: 4.33
Area: 213157
Amount: 0.885111
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 210859
Amount: 0.900485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:07:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

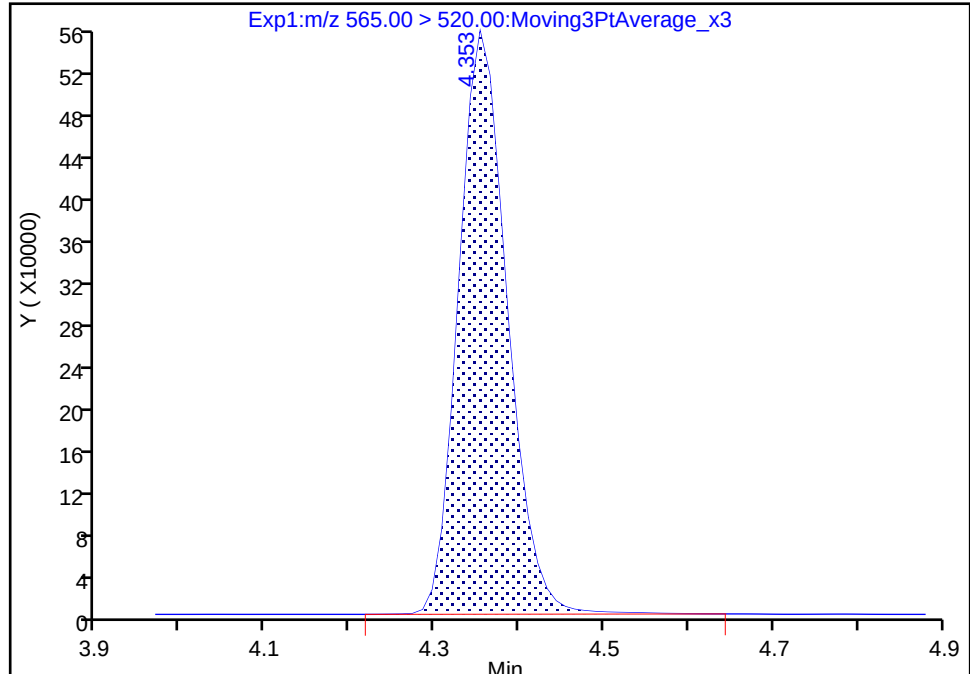
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

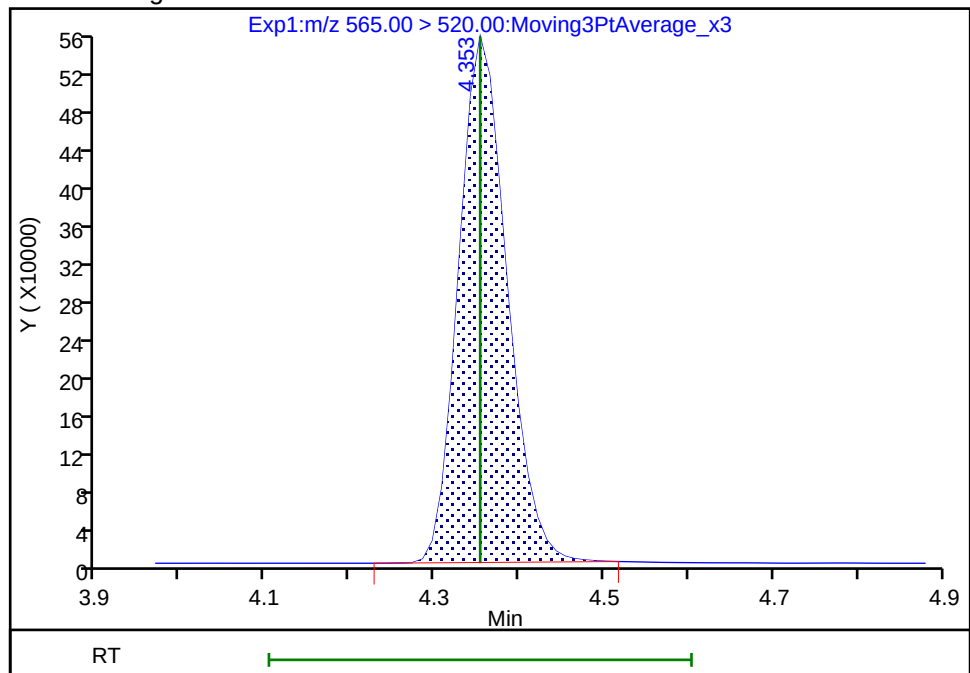
RT: 4.35
Area: 2200966
Amount: 1.263353
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2183949
Amount: 1.250019
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

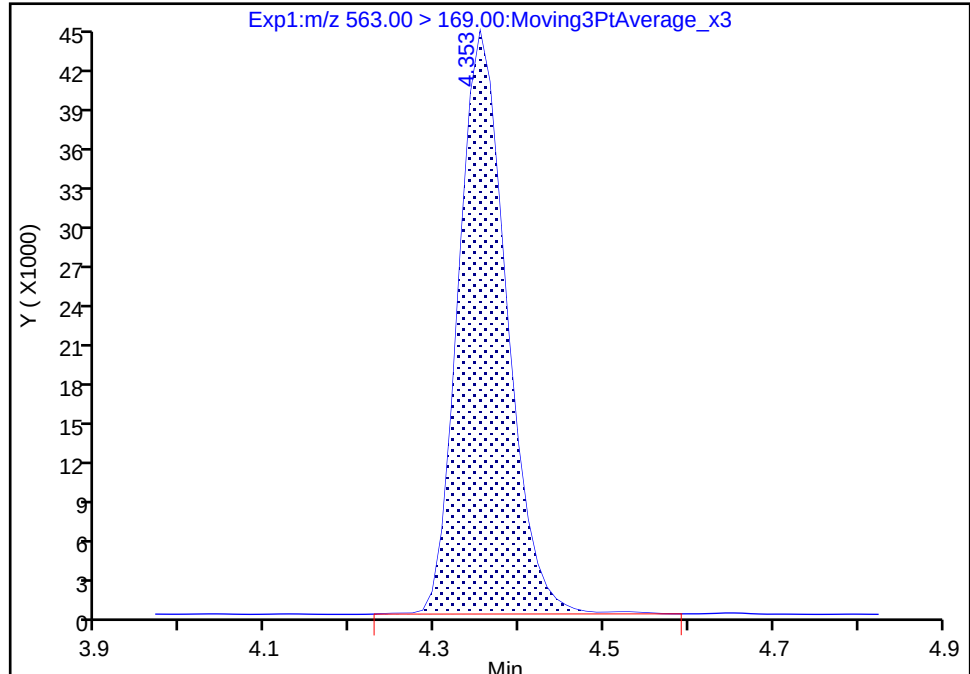
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

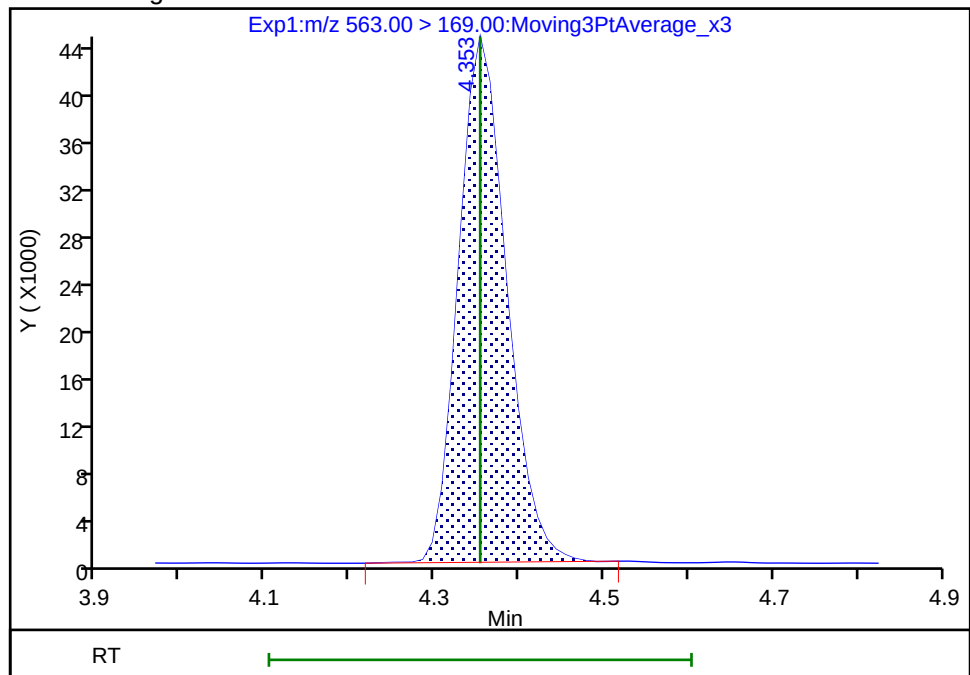
RT: 4.35
Area: 174513
Amount: 0.928435
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 173100
Amount: 0.971351
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

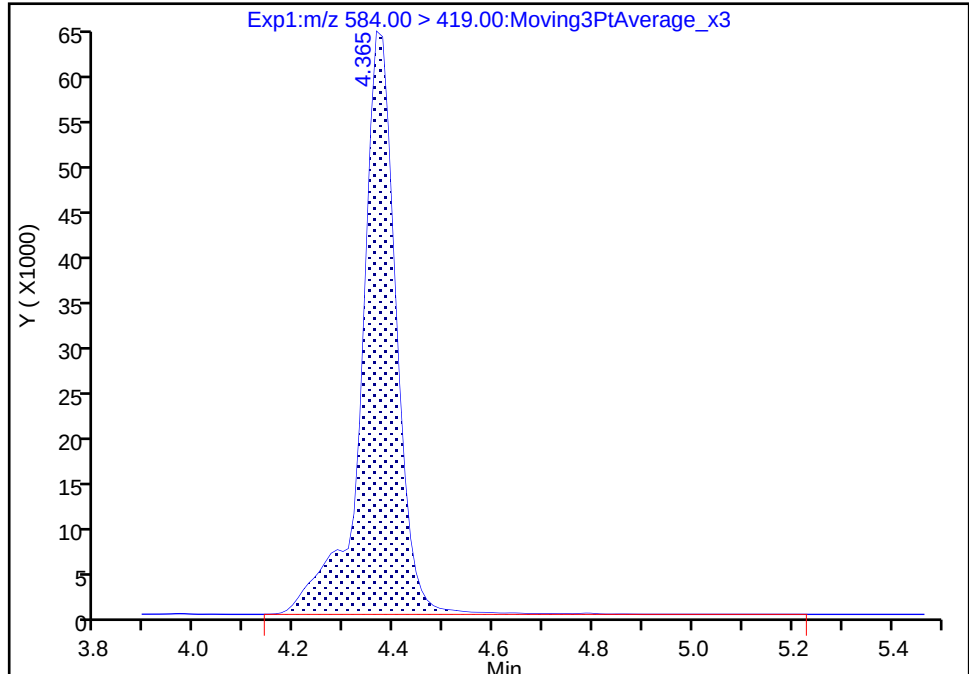
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

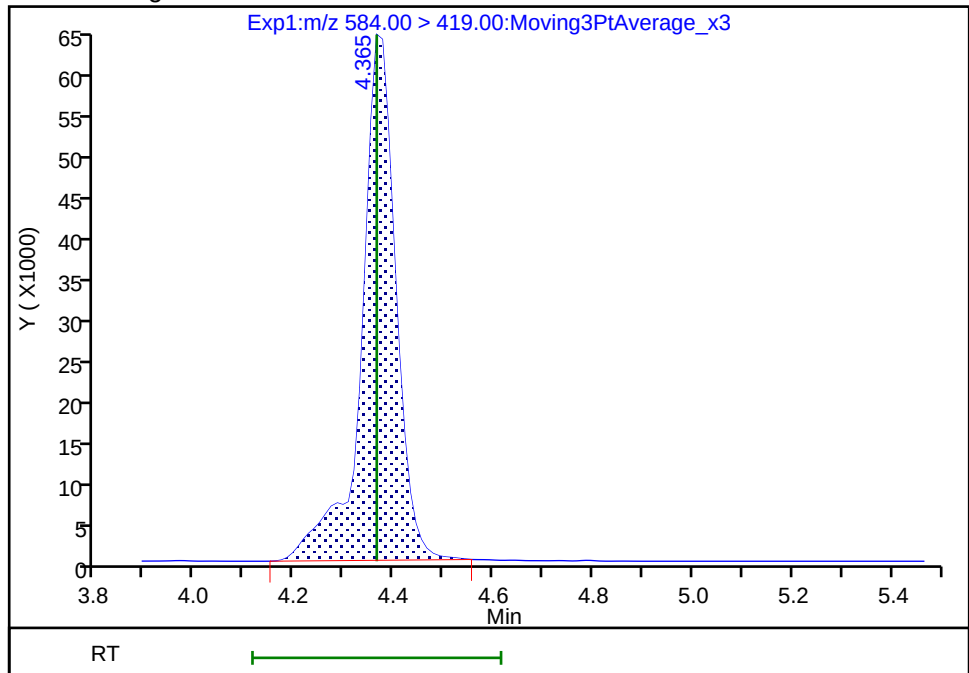
RT: 4.36
Area: 315423
Amount: 0.928970
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 311108
Amount: 0.943580
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

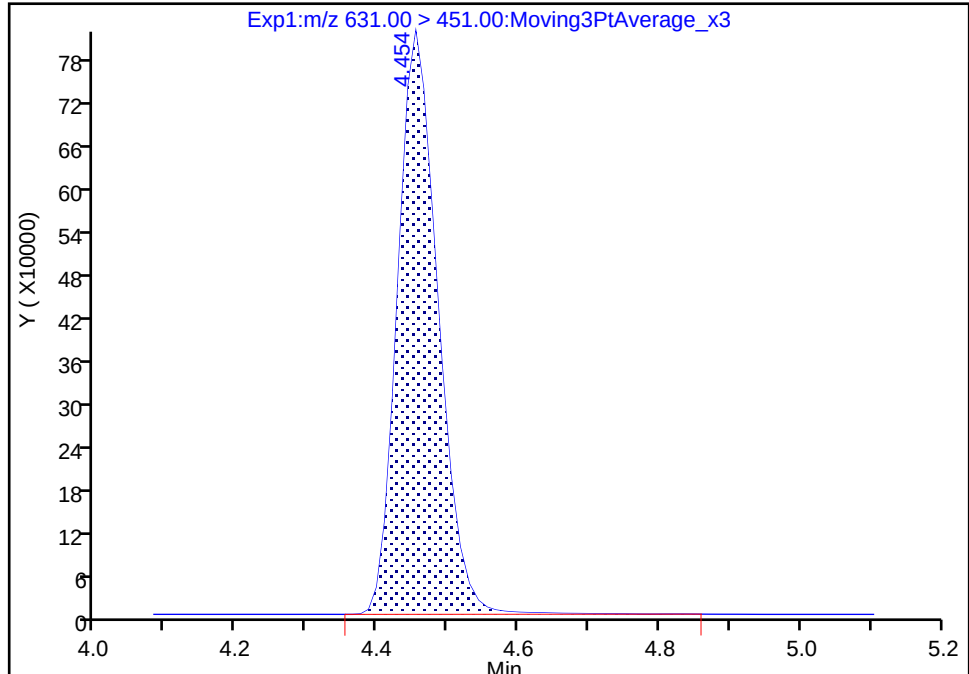
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

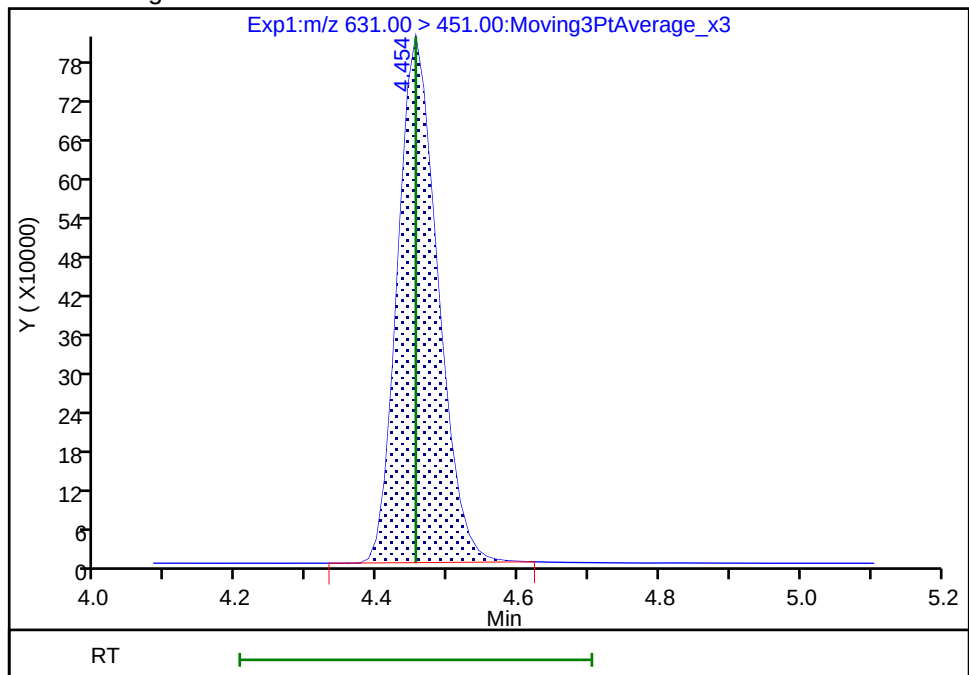
RT: 4.45
Area: 3251099
Amount: 0.891288
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 3224328
Amount: 0.925659
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

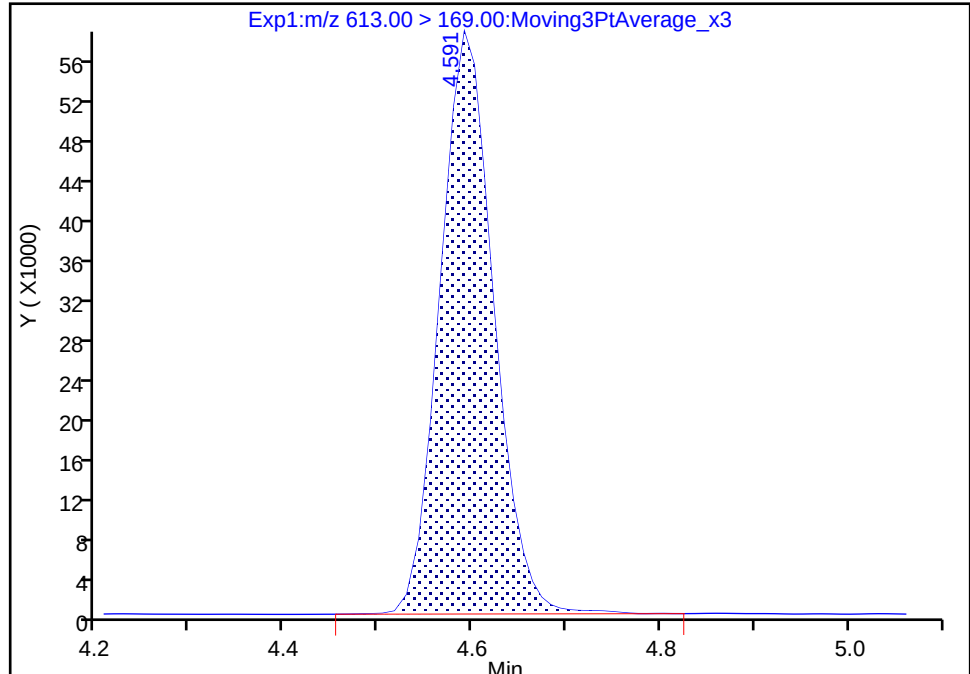
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

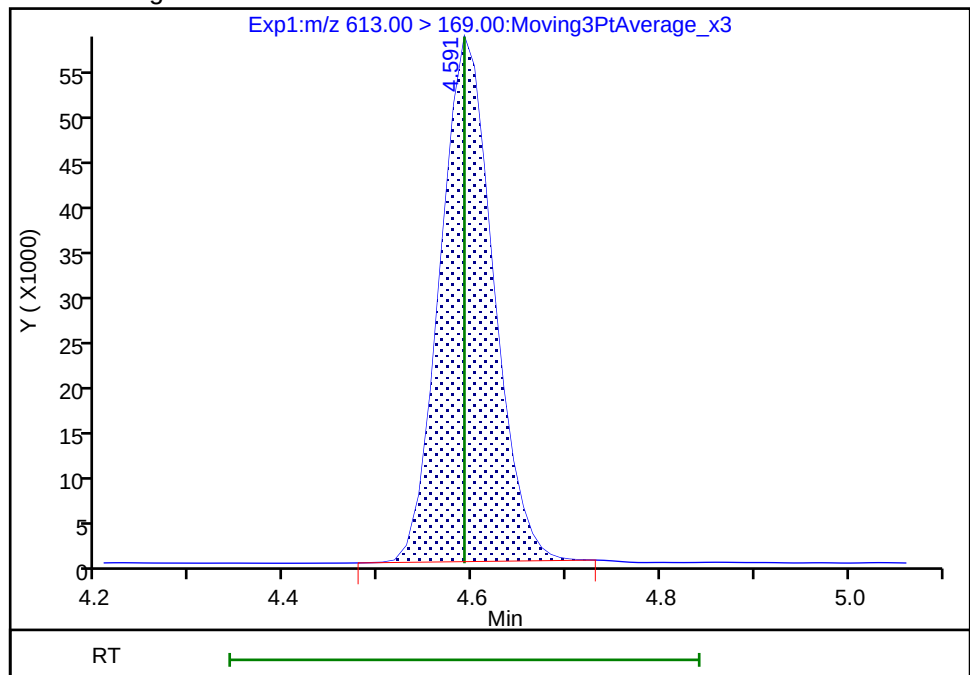
RT: 4.59
Area: 232486
Amount: 0.925204
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 229653
Amount: 0.974759
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

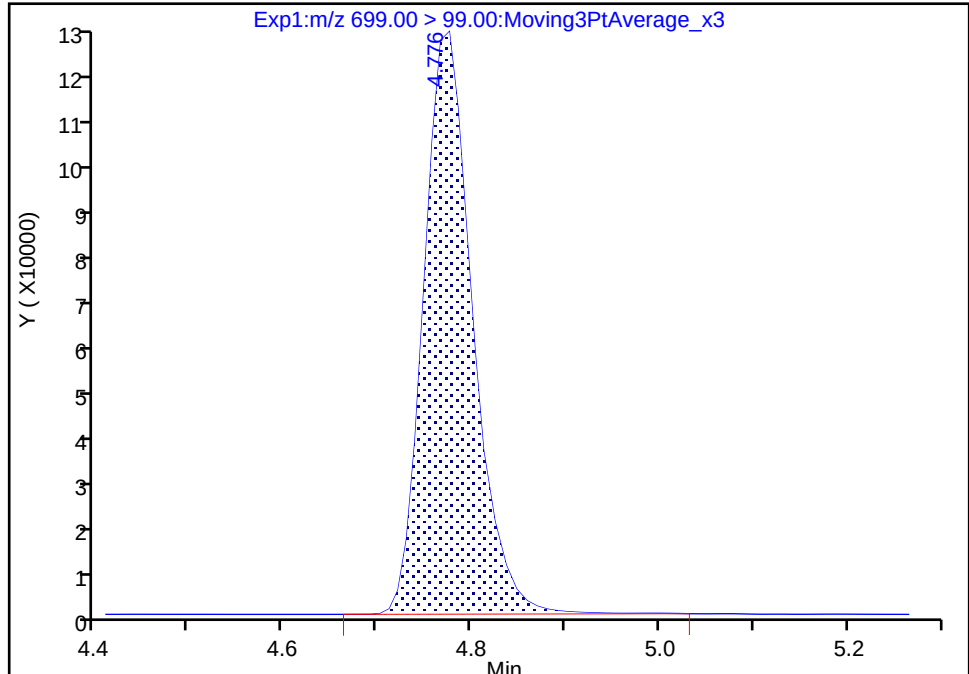
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

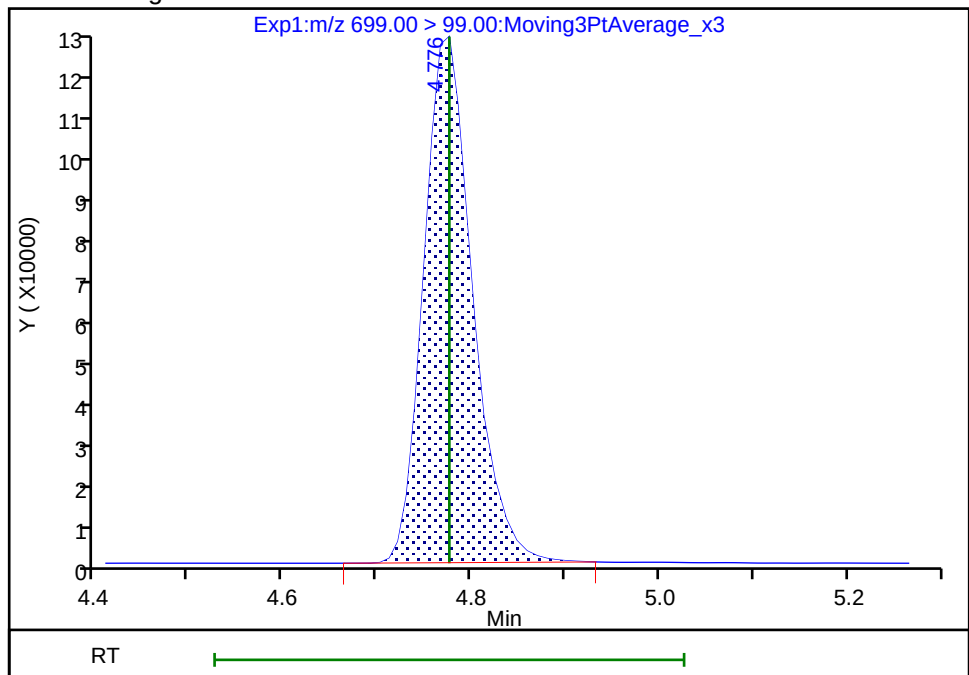
RT: 4.78
Area: 456526
Amount: 0.896225
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 454220
Amount: 0.922887
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

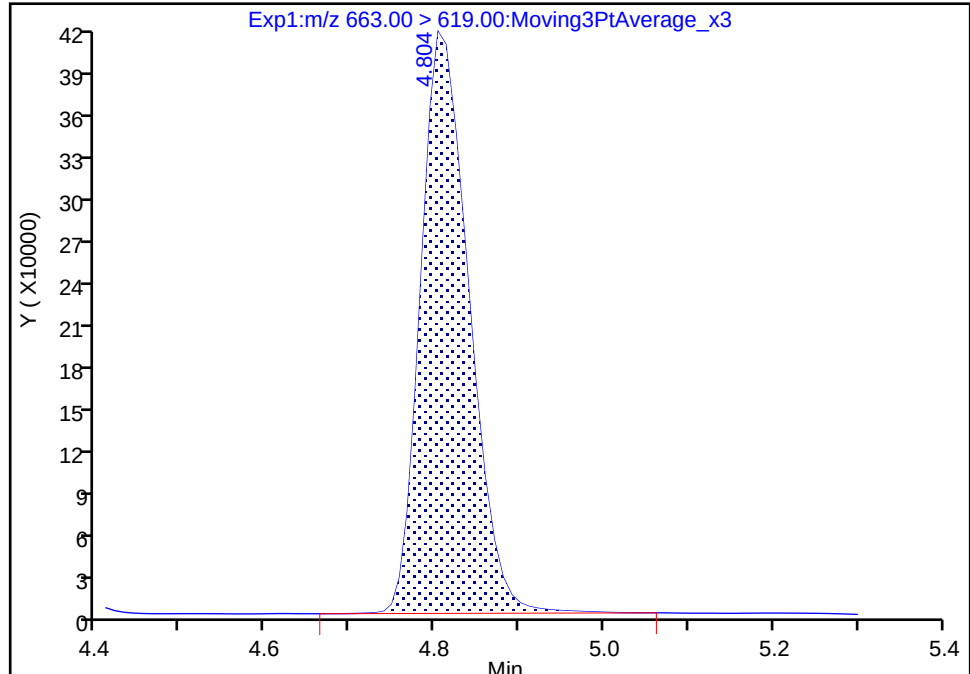
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

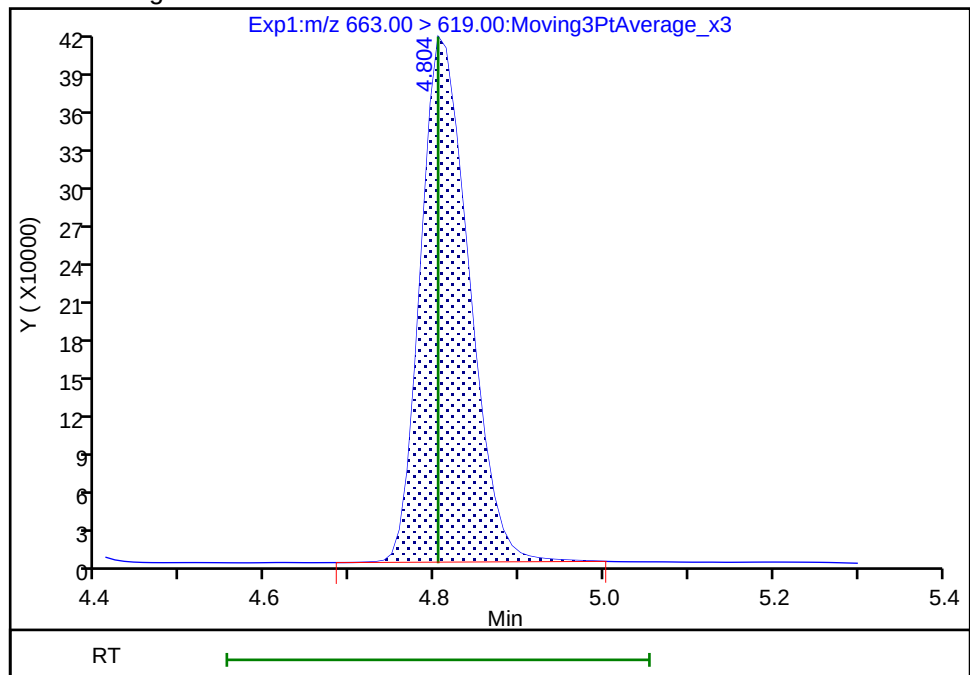
RT: 4.80
Area: 1636646
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1631703
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

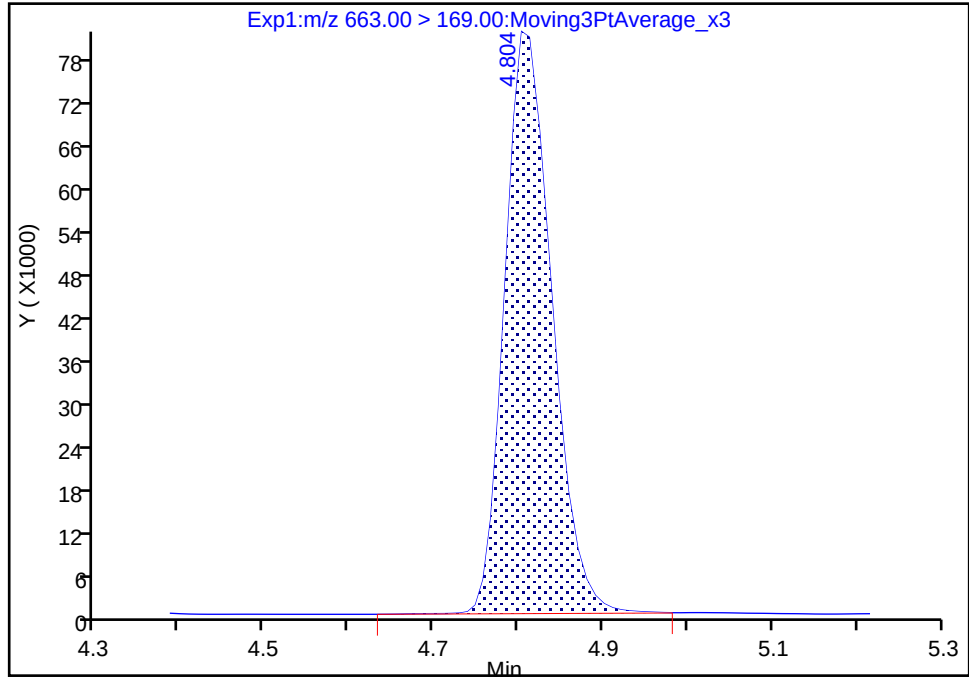
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

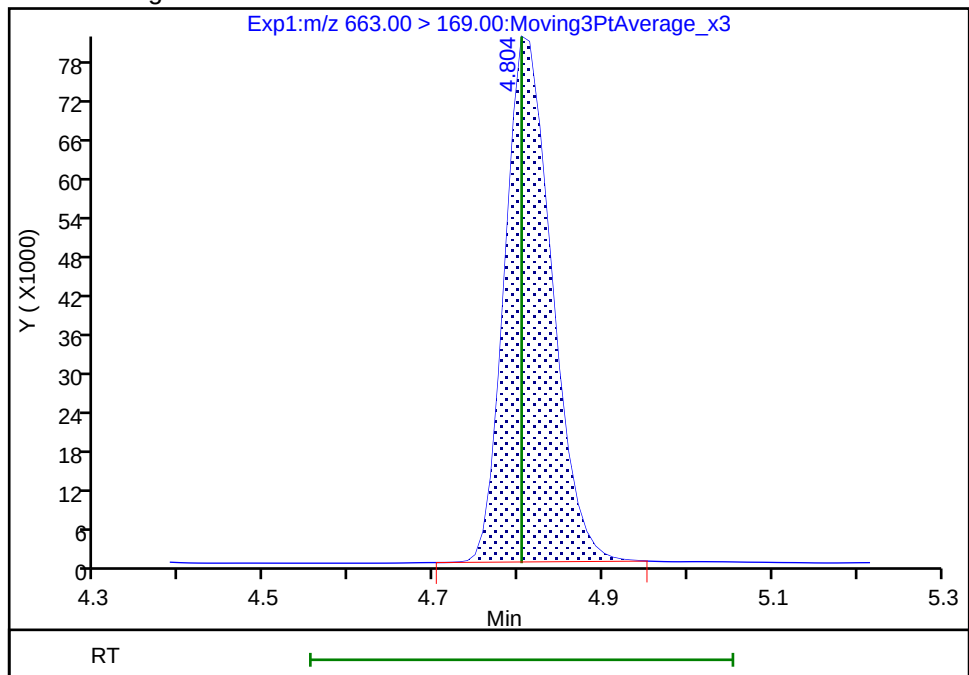
RT: 4.80
Area: 315364
Amount: 0.895241
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 313474
Amount: 0.931504
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

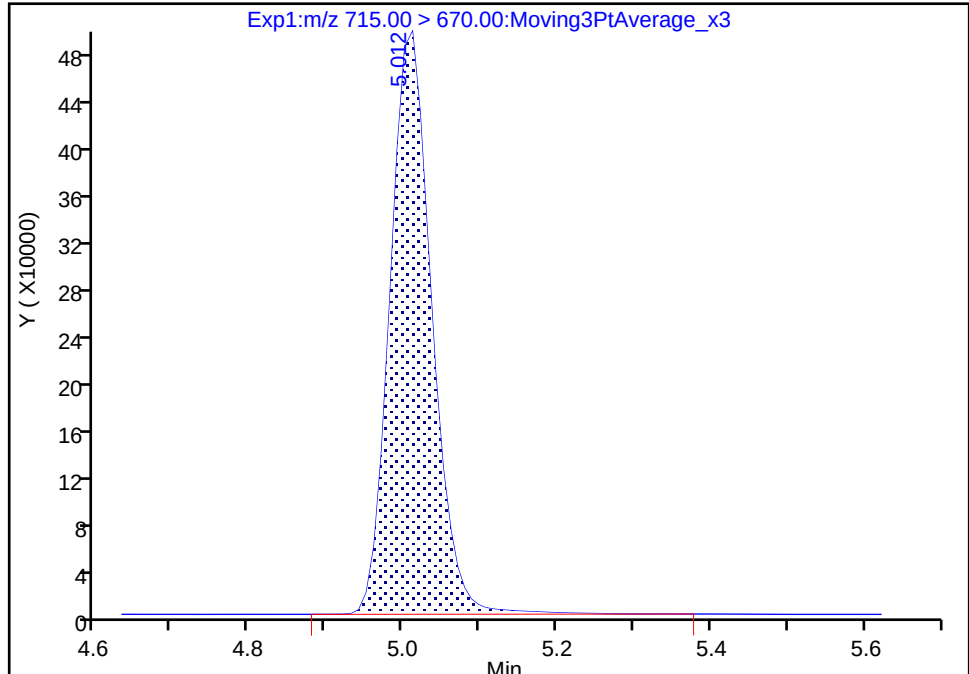
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

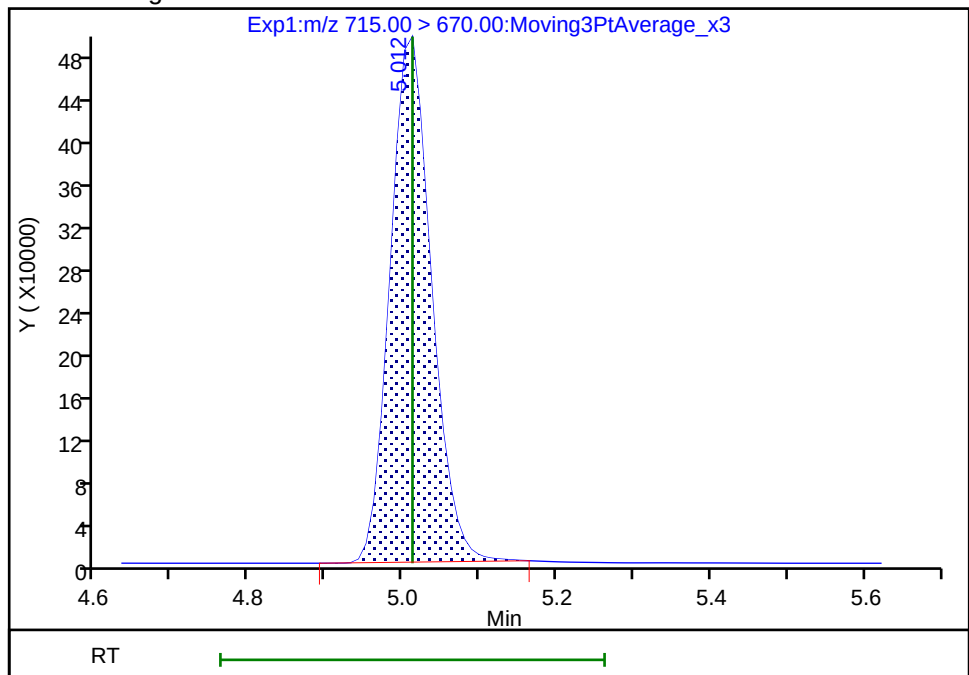
RT: 5.01
Area: 1869315
Amount: 1.228467
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 1844360
Amount: 1.197970
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:08:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

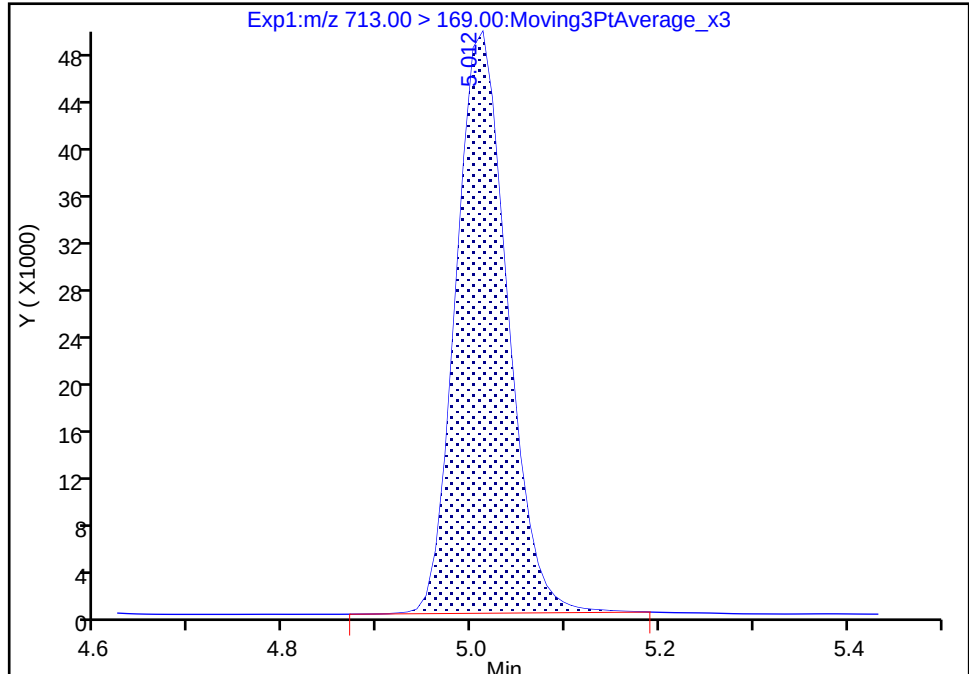
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

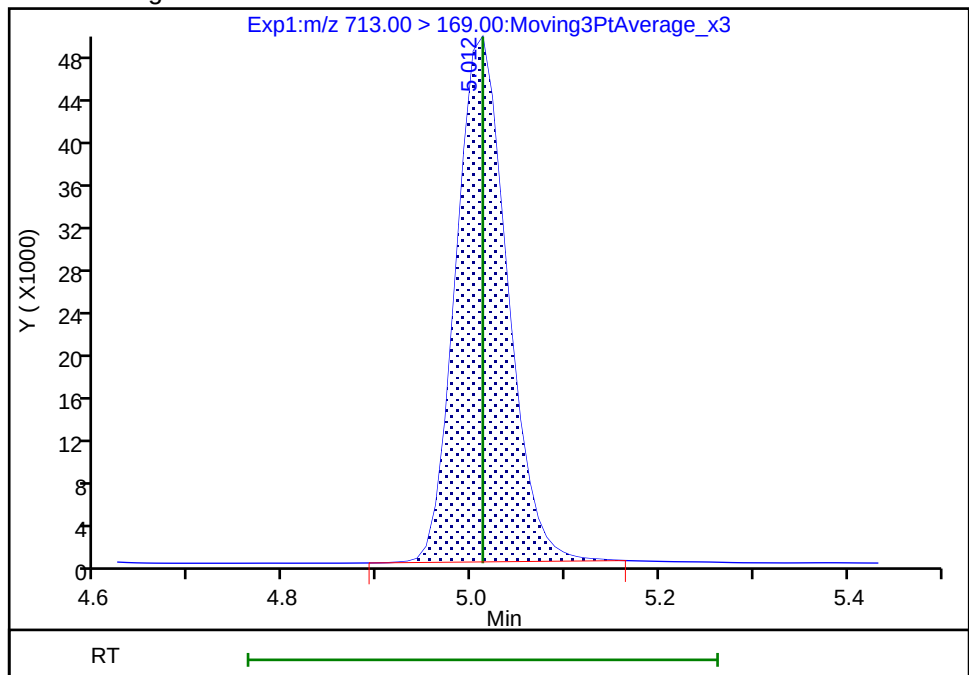
RT: 5.01
Area: 189104
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 188468
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

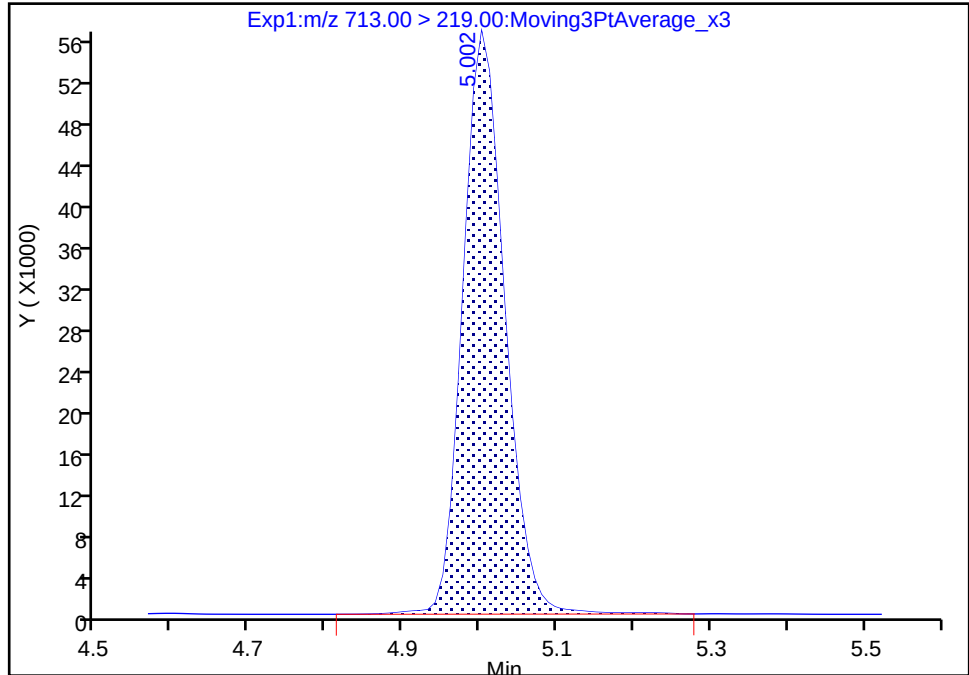
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

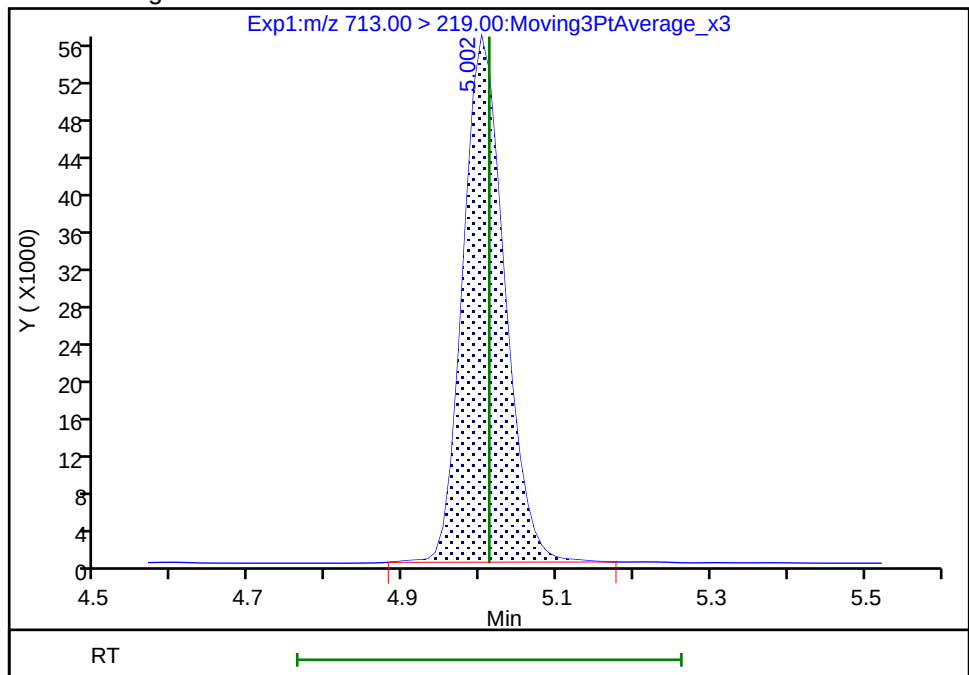
RT: 5.00
Area: 214481
Amount: 0.906114
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 212234
Amount: 0.933022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

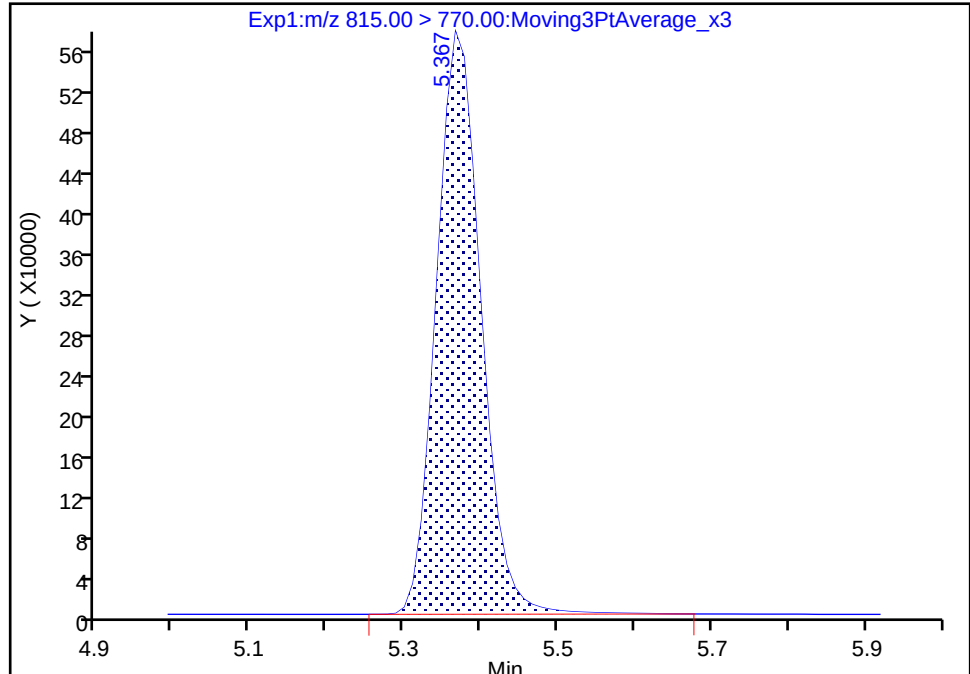
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

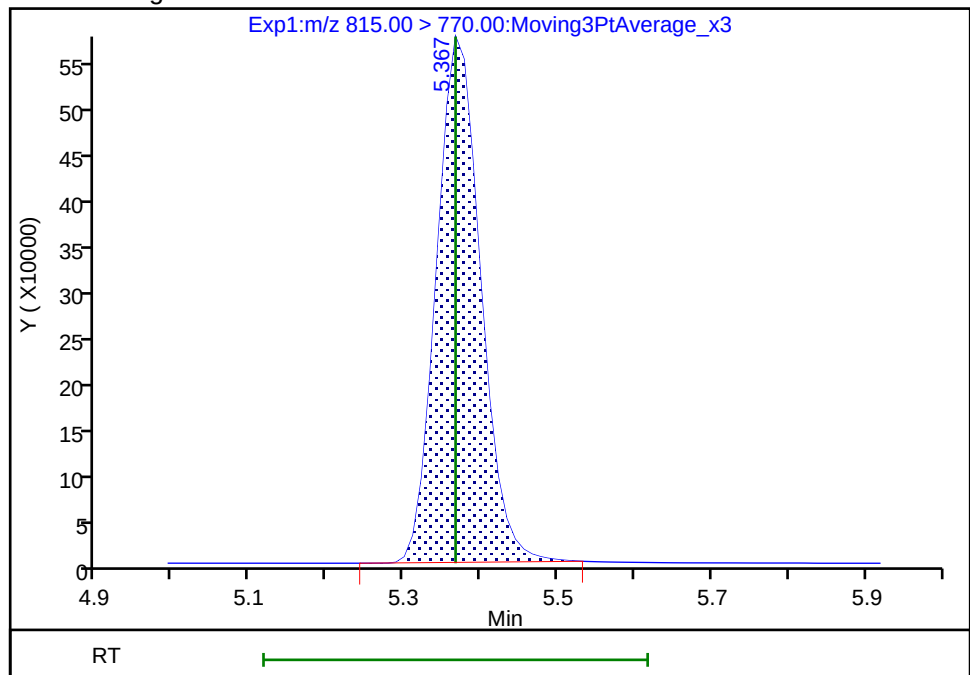
RT: 5.37
Area: 2303023
Amount: 1.224939
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2280992
Amount: 1.198419
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

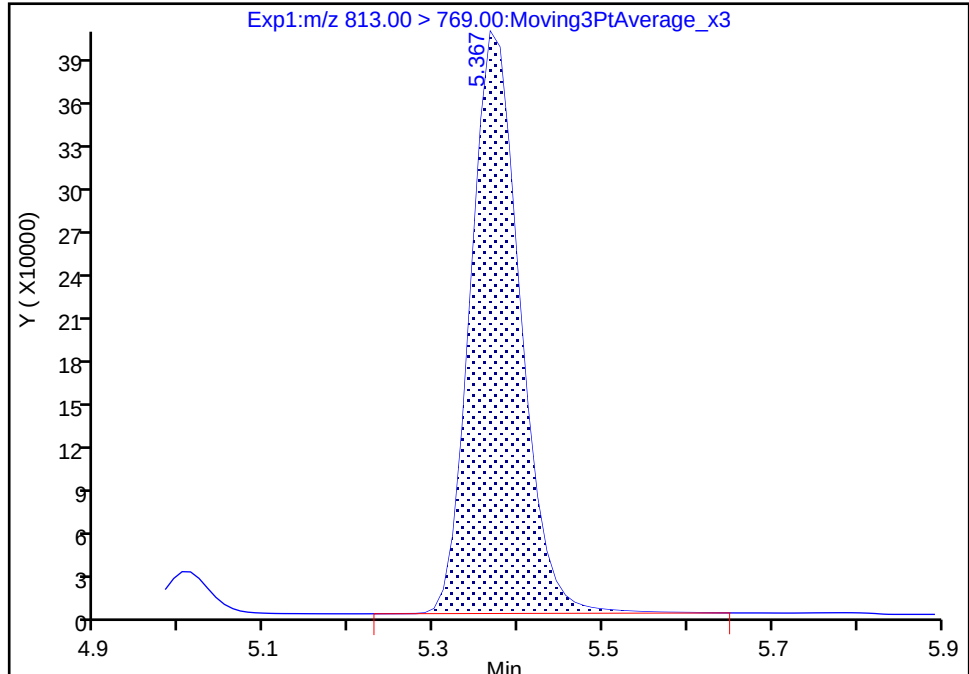
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

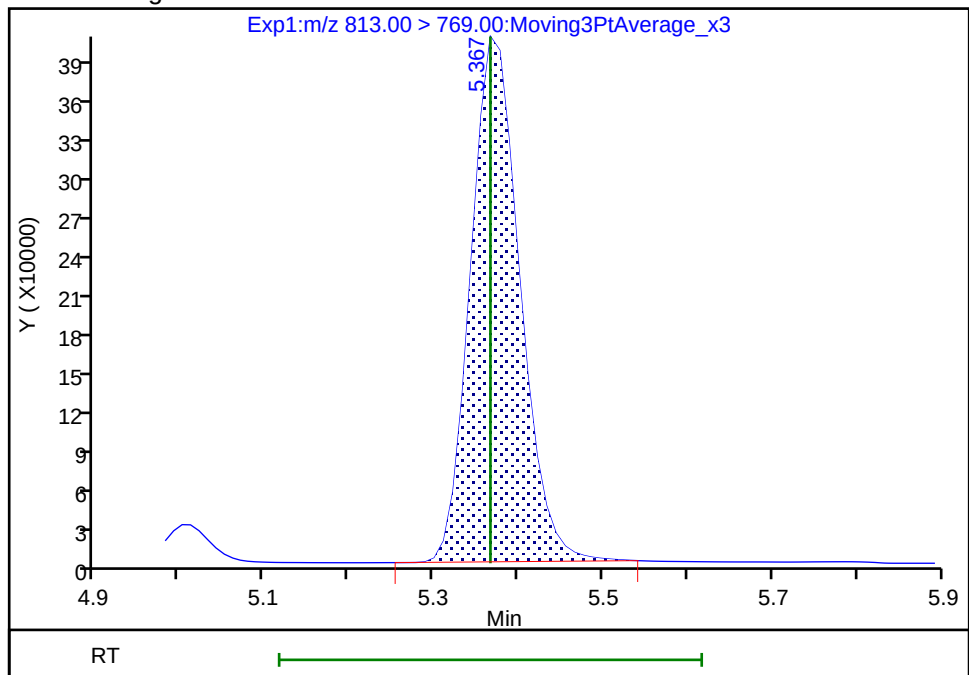
RT: 5.37
Area: 1646621
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 1633724
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

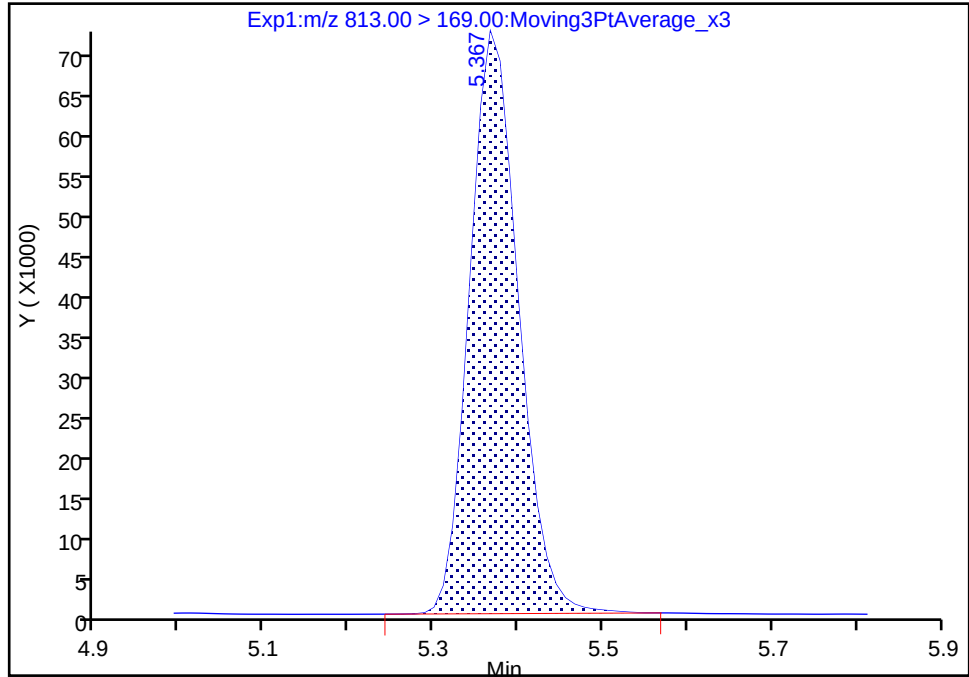
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

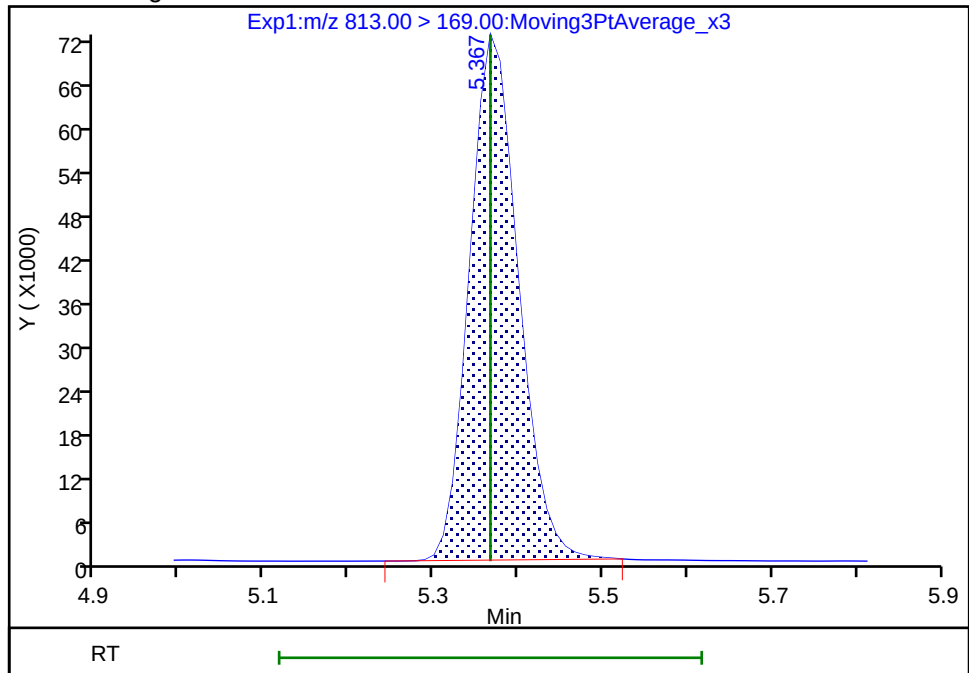
RT: 5.37
Area: 290873
Amount: 0.957003
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 289352
Amount: 0.956588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

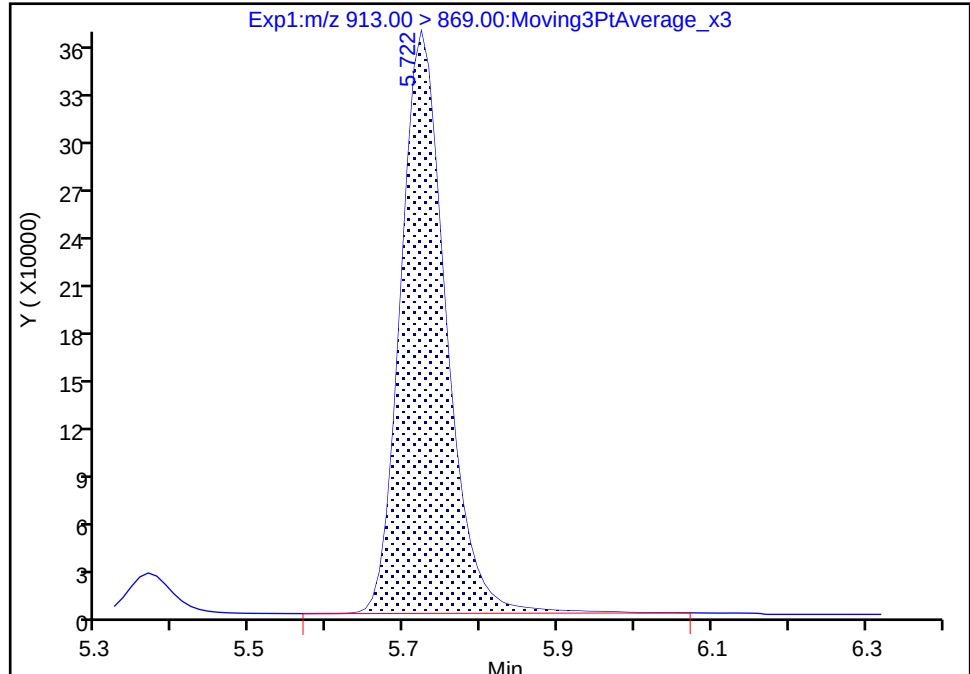
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

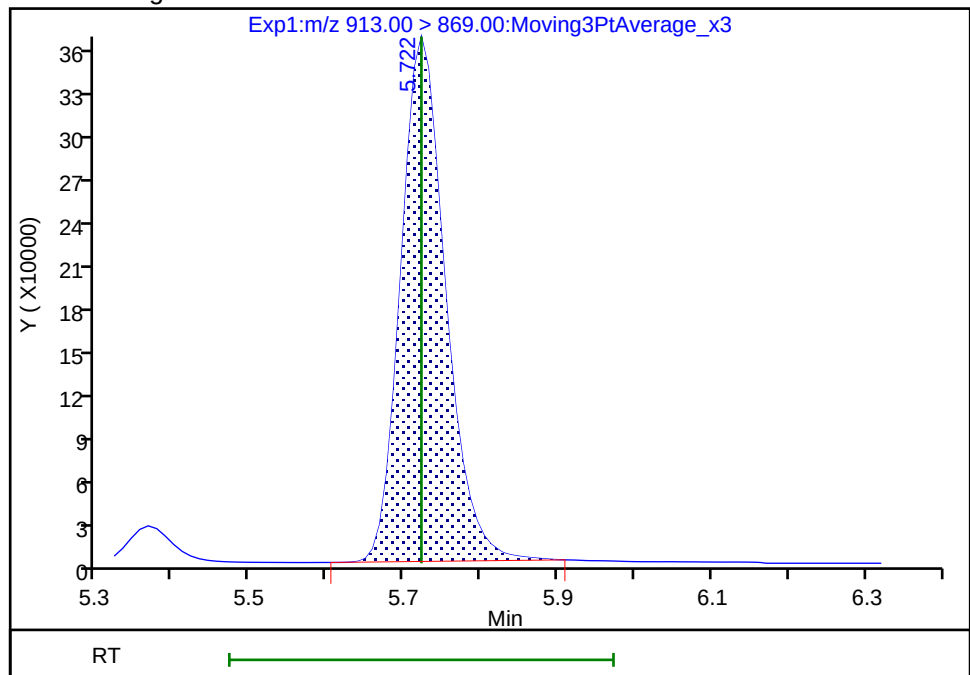
RT: 5.72
Area: 1494015
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1473641
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

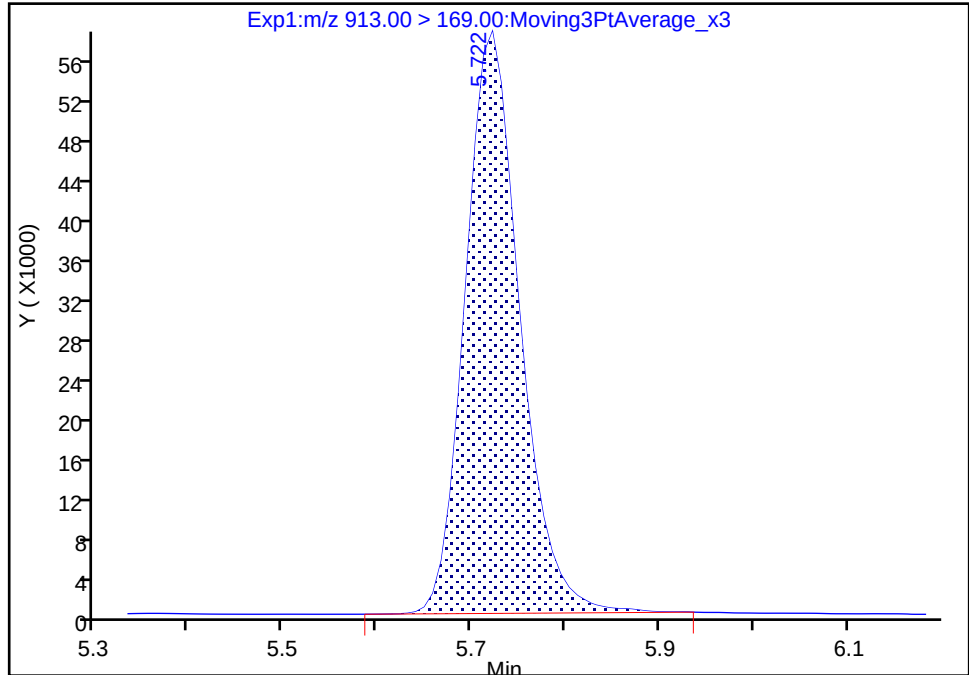
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL08.d
Injection Date: 18-Nov-2022 14:54:26 Instrument ID: LC812
Lims ID: ICISAV
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

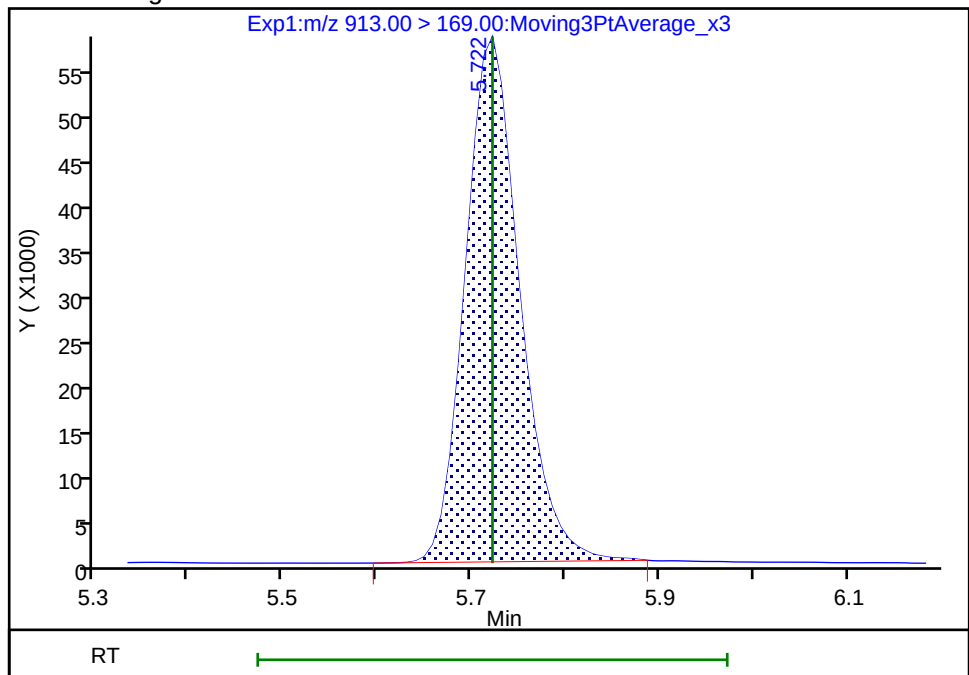
RT: 5.72
Area: 237553
Amount: 0.963448
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 236187
Amount: 0.980547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:09:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 418 of 1142

1/9/2023 1:31
PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Nov-2022 15:02:36 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:37:50 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:19:10

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	2.076	2.076	0.0	0.602	2679202	1.26		101	15212	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	5105461	2.31		92.4	460	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2026955	1.25		100	4109	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.387	2.387	0.0	1.000	4126130	2.33		93.4	109	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2026741	1.15		99.2	320899	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4292437	2.15	Target=2.14	97.4	4481	M
298.90 > 99.00	2.400	2.400	0.0	1.000	2025175		2.12(1.07-3.21)	97.4	1425	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	1079231	2.29		98.0	4533	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	178646	1.15		98.5	205	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2164012	1.28		102	5801	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.738	2.725	0.013	1.004	4547952	2.41	Target=13.44	96.4	805	M
313.00 > 119.00	2.725	2.725	0.0	1.000	312872		14.54(6.72-20.15)	96.4	433	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.738	2.737	0.001	0.883	3901605	2.33	Target=2.98	99.2	5520	
349.00 > 99.00	2.738	2.737	0.001	0.883	1271099		3.07(1.49-4.47)	99.2	1901	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	387831	1.30		104	1771	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	756781	2.31		92.4	3649	
D 11 18O2 PFHxS										
403.00 > 84.00	3.099	3.088	0.011	0.899	1485775	1.16		98.1	3442	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	0.996	3217665	2.27	Target=3.57	99.7	1650	M
399.00 > 99.00	3.088	3.088	0.0	0.996	889058		3.62(1.78-5.35)	99.7	805	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2271049	1.30		104	7276	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.099	0.0	1.000	4611900	2.33	Target=3.93	93.3	871	
363.00 > 169.00	3.099	3.099	0.0	1.000	1182521		3.90(1.96-5.89)	93.3	2126	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	10824421	2.24	Target=3.08	95.0	3767	M
377.00 > 85.00	3.132	3.132	0.0	0.832	3633058		2.98(1.54-4.62)	95.0	1956	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	257709	1.20		101	723	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	1097897	2.38		101	2807	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.439	0.0	0.914	2744265	2.24	Target=5.16	94.0	1942	M
449.00 > 99.00	3.439	3.439	0.0	0.914	543093		5.05(2.58-7.74)	94.0	2249	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2522753	1.29		103	5188	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2367797	1.25			4001	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	5263268	2.44	Target=2.82	97.6	387	
413.00 > 169.00	3.448	3.448	0.0	1.000	1822258		2.89(1.41-4.23)	97.6	1577	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1049764	1.21		101	2525	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	2338057	2.19	Target=5.01	94.3	367	M
499.00 > 99.00	3.764	3.764	0.0	1.000	491265		4.76(2.50-7.51)	94.3	383	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.783	3.783	0.0	1.097	2401890	1.26		101	3709	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	4930997	2.47	Target=8.49	99.0	859	M
463.00 > 169.00	3.783	3.783	0.0	1.000	586103		8.41(4.25-12.74)	99.0	2411	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	5512960	2.25		96.5	3886	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.061	4.050	0.011	1.079	1871298	2.32	Target=2.60	96.7	2768	M
549.00 > 99.00	4.061	4.050	0.011	1.079	726837		2.57(1.30-3.90)	96.7	2286	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2491665	1.28		103	4693	

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	4.081	4.081	0.0	1.000	4948756	2.29	Target=10.03	91.6	1883	
513.00 > 169.00	4.081	4.081	0.0	1.000	502506		9.85(5.02-15.05)	91.6	891	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	321188	1.22		102	963	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	1014644	2.34		97.7	2533	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	4094524	2.46		98.3	2556	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1993351	1.25		100	2401	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	514239	1.30		104	416	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.228	0.010	1.002	873622	2.46		98.3	924	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	1496790	2.35	Target=2.58	97.5	2027	M
599.00 > 99.00	4.331	4.331	0.0	1.151	562866		2.66(1.29-3.86)	97.5	1295	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	0.997	4311823	2.37	Target=10.10	94.7	1327	M
563.00 > 169.00	4.353	4.353	0.0	0.997	431935		9.98(5.05-15.15)	94.7	1347	
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.353	0.012	1.266	2259671	1.27		102	3817	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.365	0.011	1.003	848987	2.39		95.5	1131	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	496655	1.28		102	1013	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	8644779	2.29		97.1	2779	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.591	0.010	1.000	4520955	2.28	Target=7.41	91.0	287	M
613.00 > 169.00	4.601	4.591	0.010	1.000	628962		7.19(3.70-11.11)	91.0	2150	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.591	0.010	1.335	2344331	1.29		104	3770	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.612	0.0	1.127	585886	2.25		93.3	1907	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.776	0.0	1.269	629893	2.34	Target=0.51	96.6	3834	M
699.00 > 99.00	4.776	4.776	0.0	1.269	1217795		0.52(0.25-0.76)	96.6	1849	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.812	4.804	0.008	1.046	4574880	2.41	Target=5.40	96.3	292	M
663.00 > 169.00	4.812	4.804	0.008	1.046	841148		5.44(2.70-8.10)	96.3	1577	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	519386	2.35	Target=0.90	94.1	1498	M
713.00 > 219.00	5.012	5.012	0.0	1.000	610374		0.85(0.45-1.35)	94.1	1973	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2014799	1.29		103	2640	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2500657	1.29		103	2634	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.367	0.010	1.002	4609177	2.49	Target=5.85	99.5	360	M
813.00 > 169.00	5.377	5.367	0.010	1.002	767191		6.01(2.93-8.78)	99.5	1778	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	3885994	2.36	Target=6.30	94.3	307	M
913.00 > 169.00	5.722	5.722	0.0	1.066	634754		6.12(3.15-9.46)	94.3	883	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00030

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d

Injection Date: 18-Nov-2022 15:02:36

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

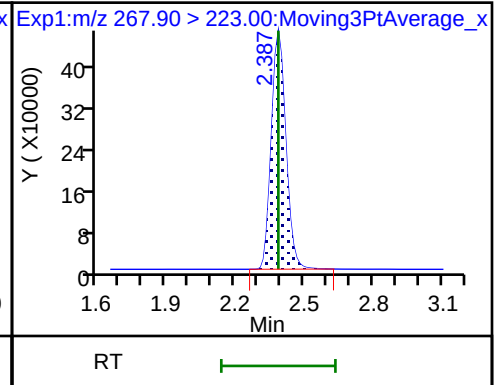
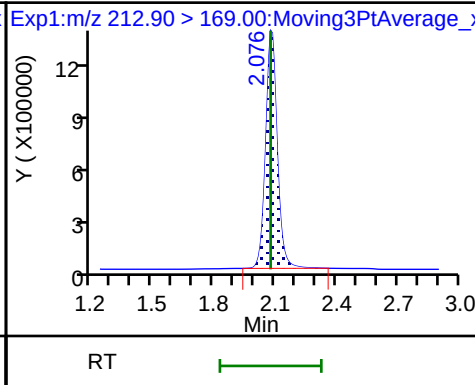
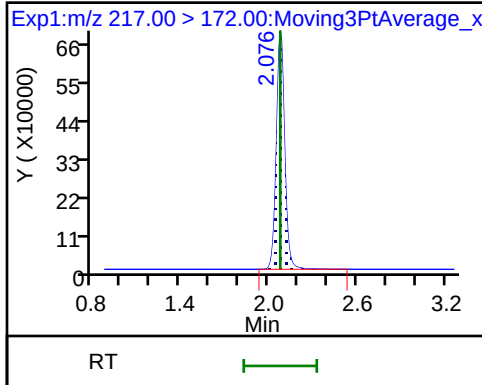
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

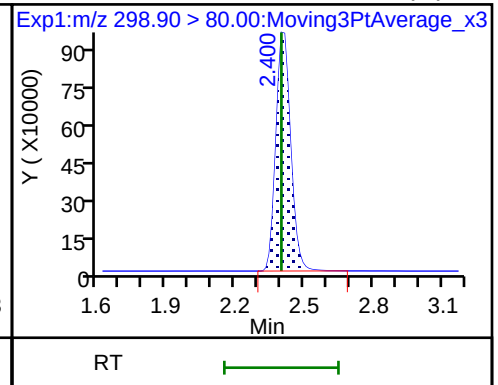
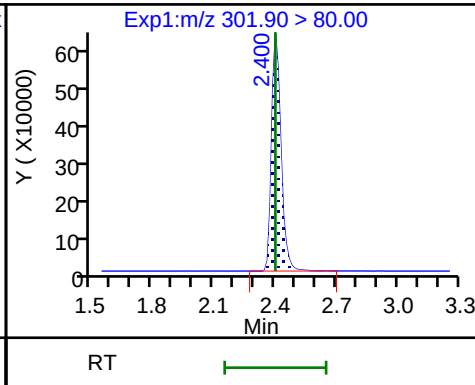
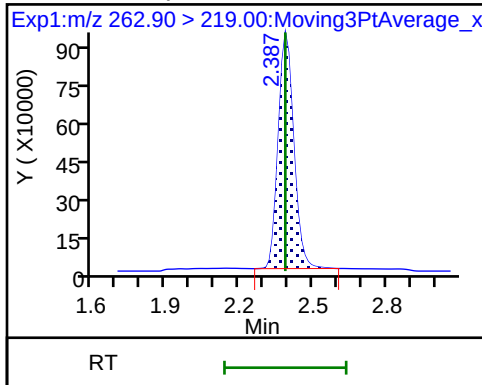
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

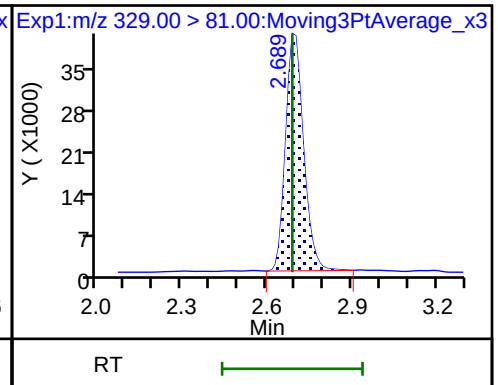
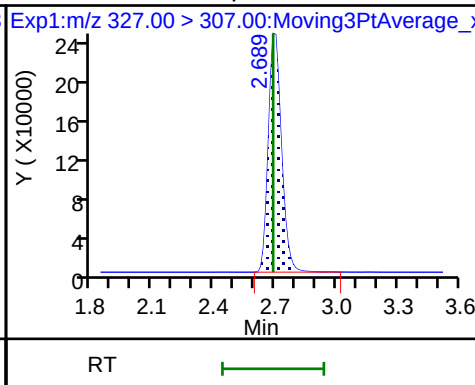
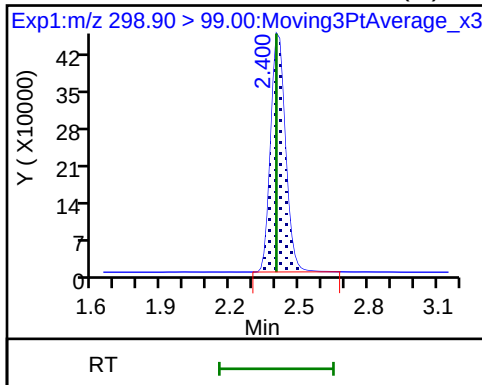
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

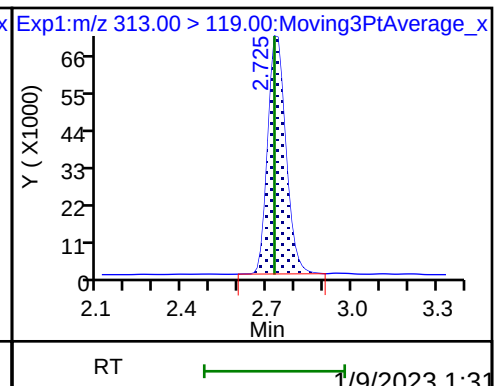
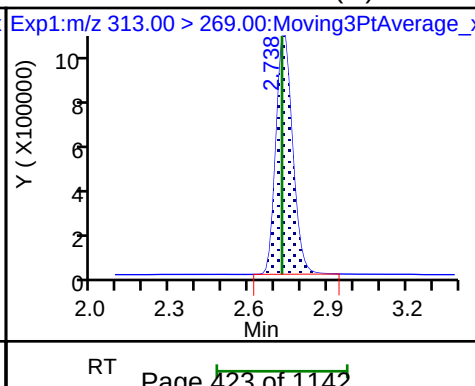
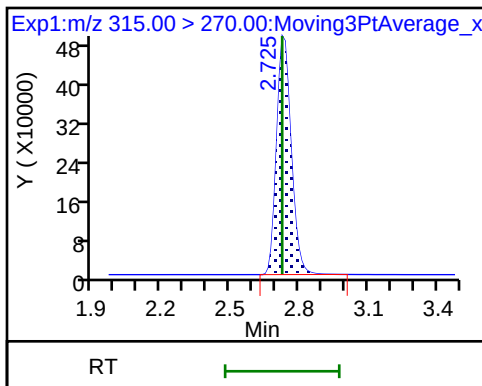
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

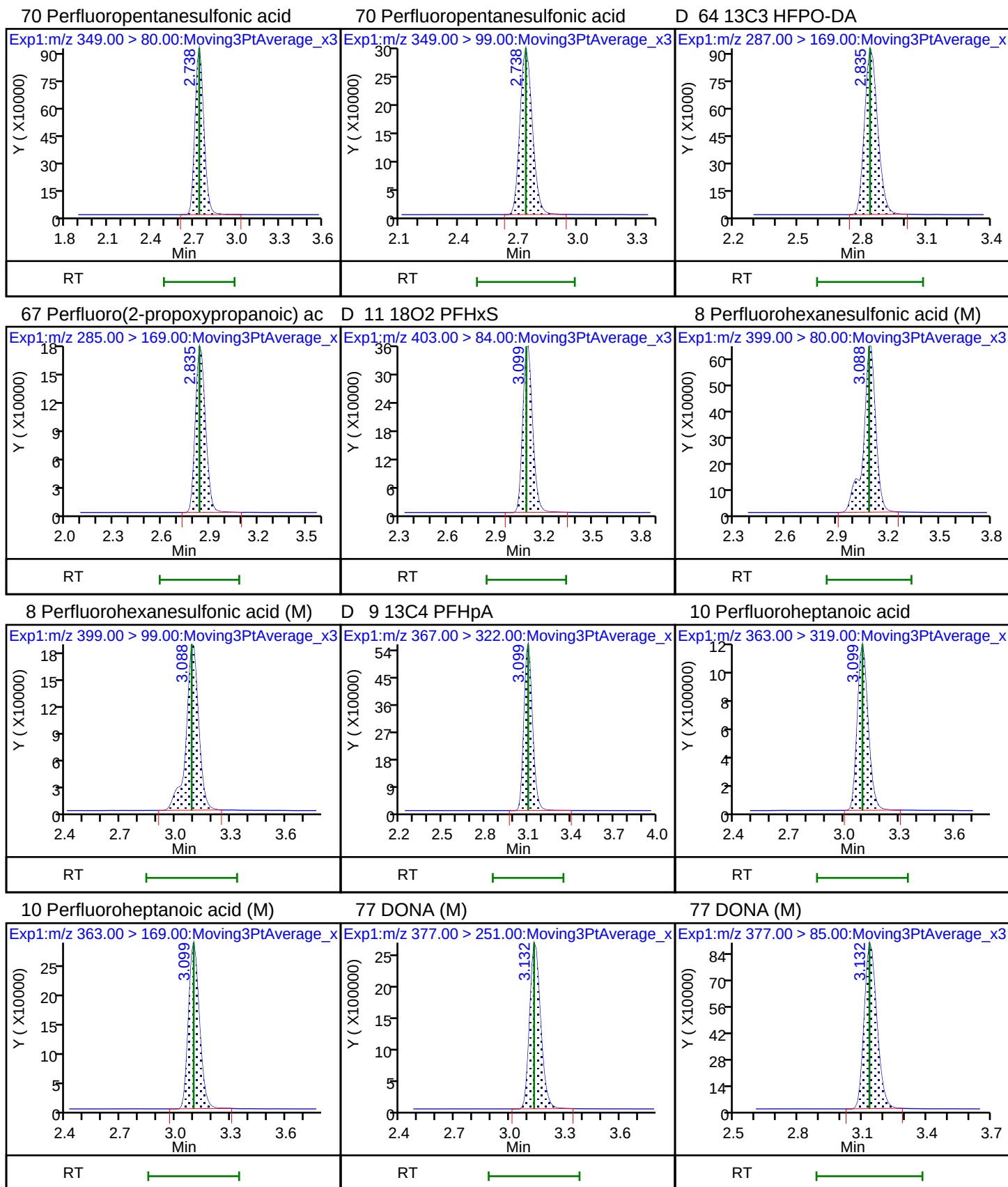


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

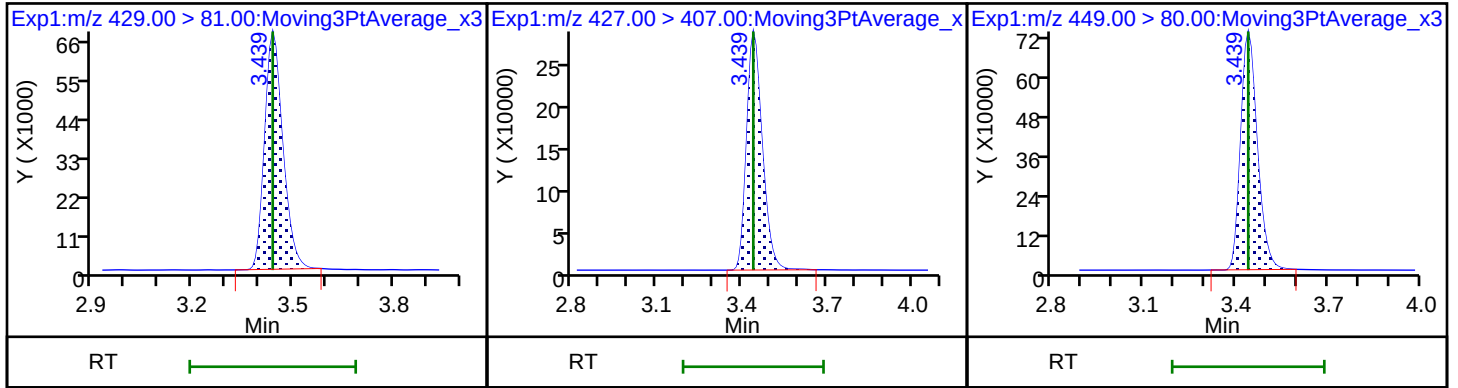




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

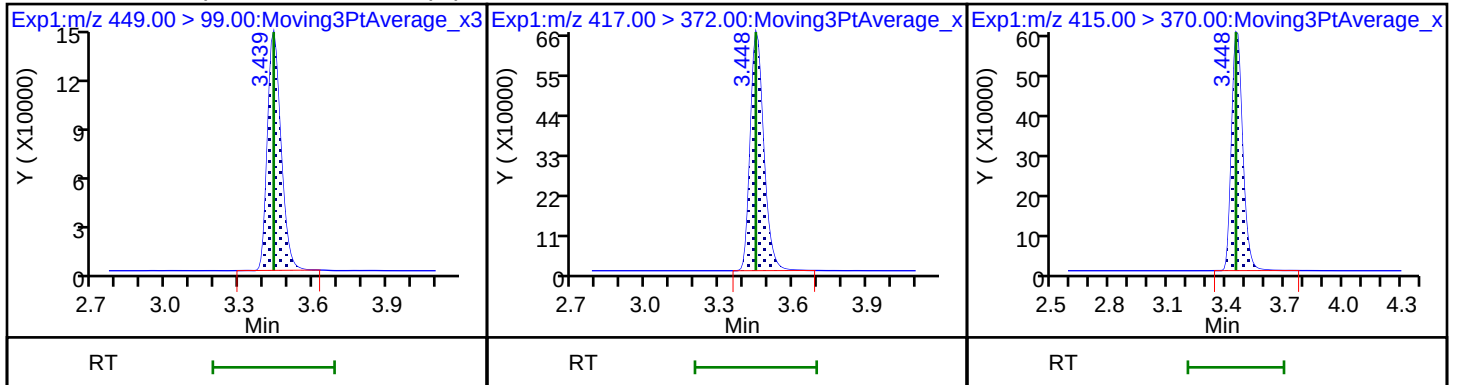
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

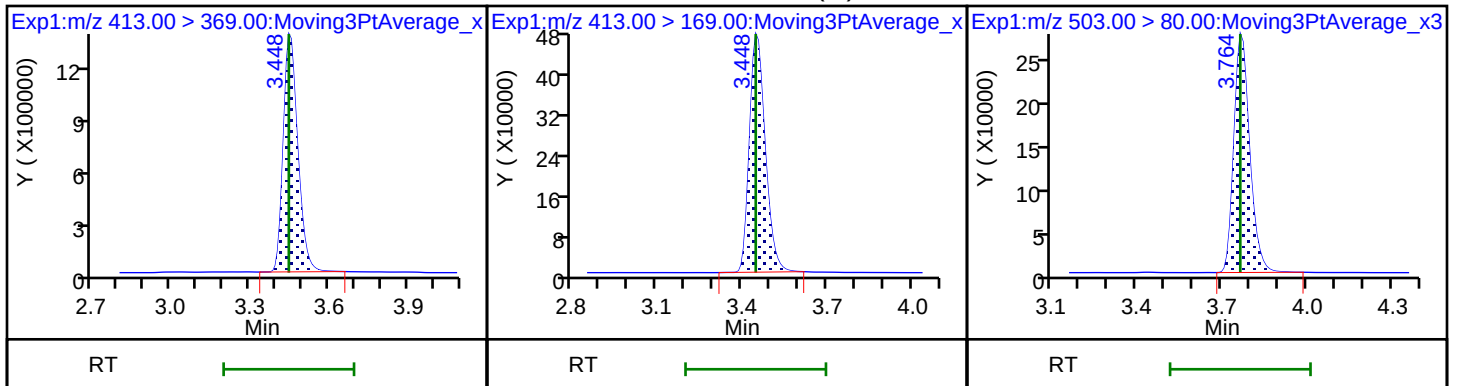
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

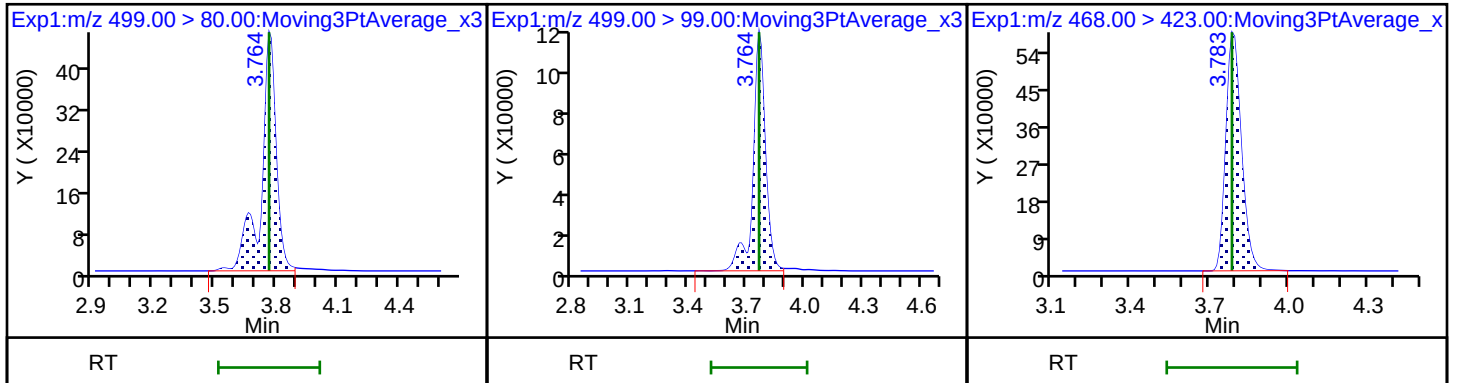
D 18 13C4 PFOS

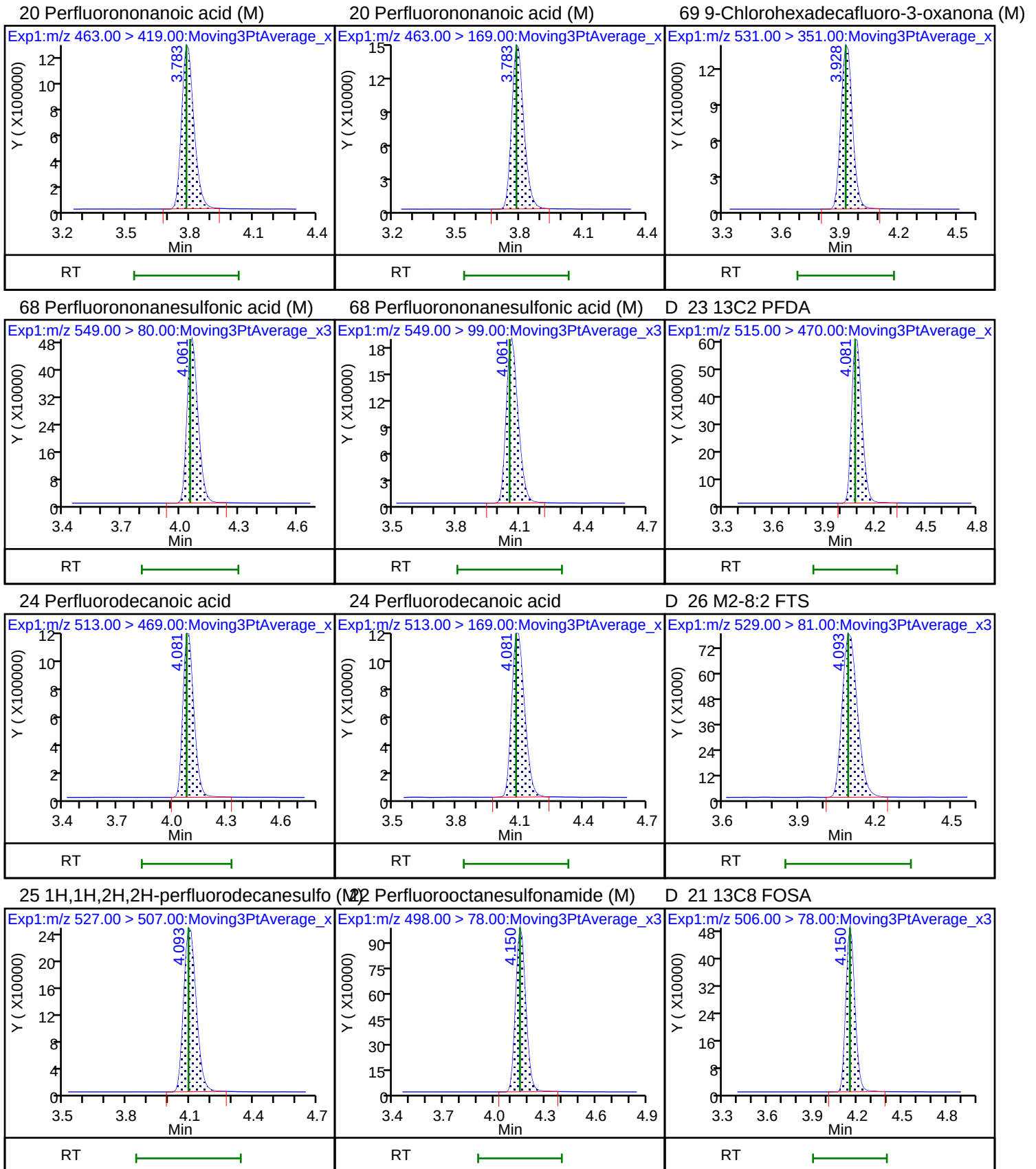


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

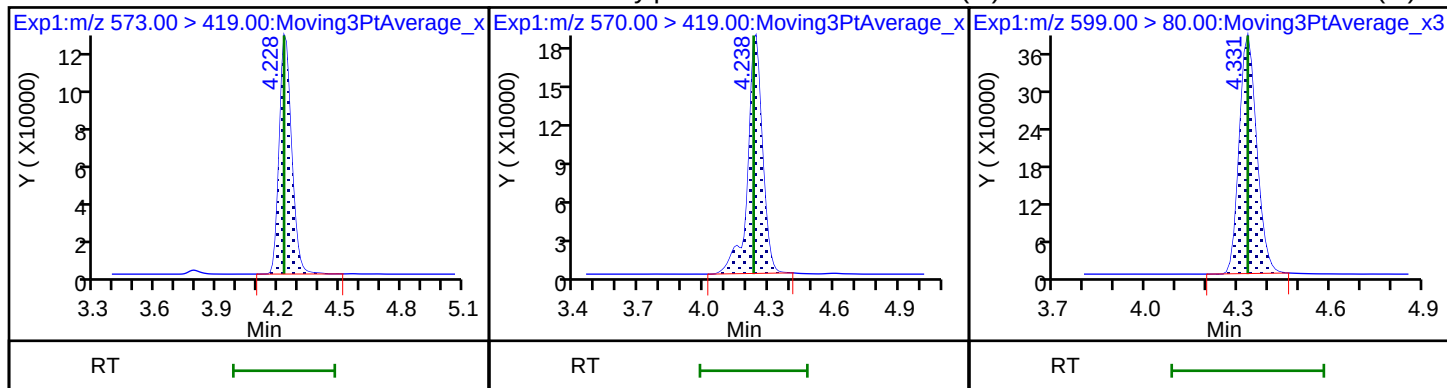
D 19 13C5 PFNA (M)





D 27 d3-NMeFOSAA

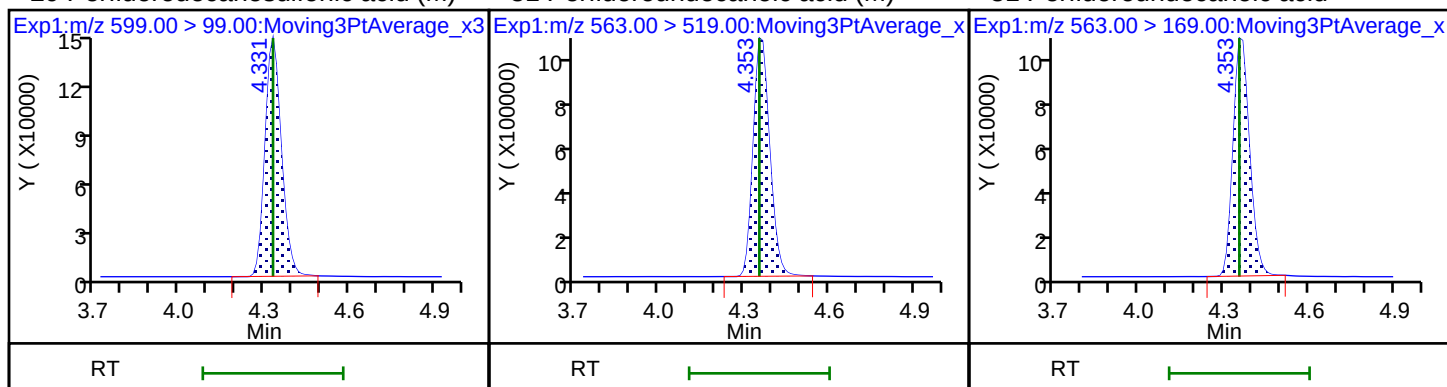
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

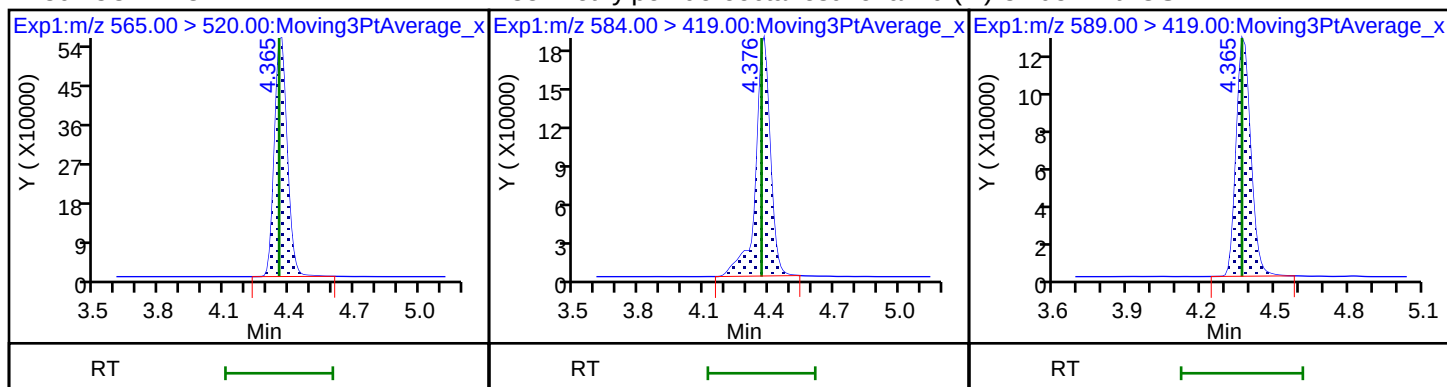
31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid



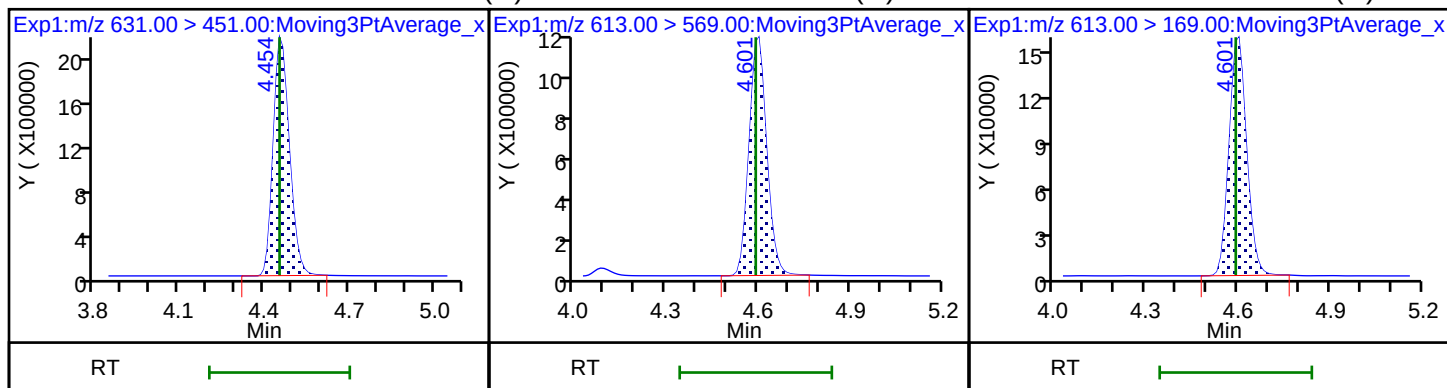
D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



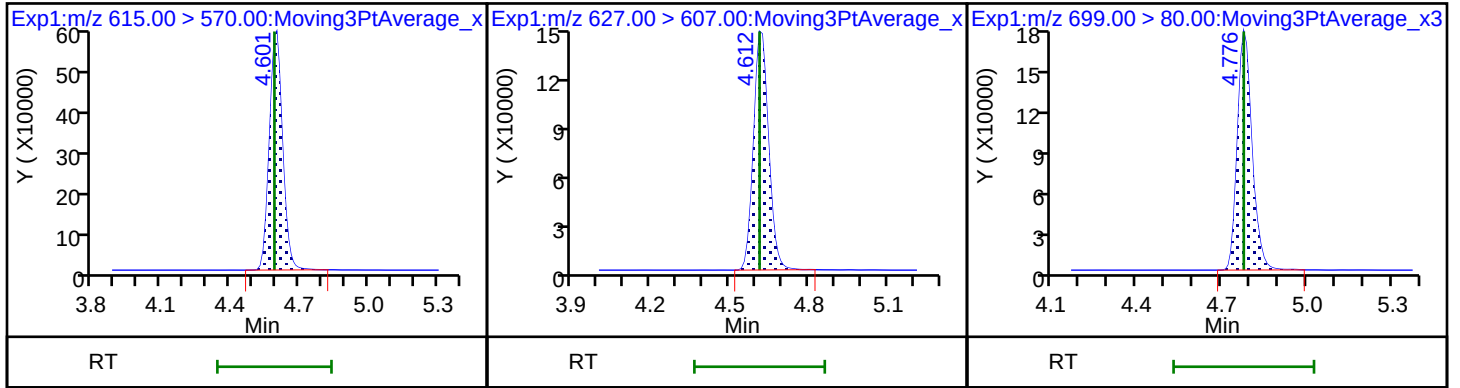
66 11-Chloroeicosafluoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



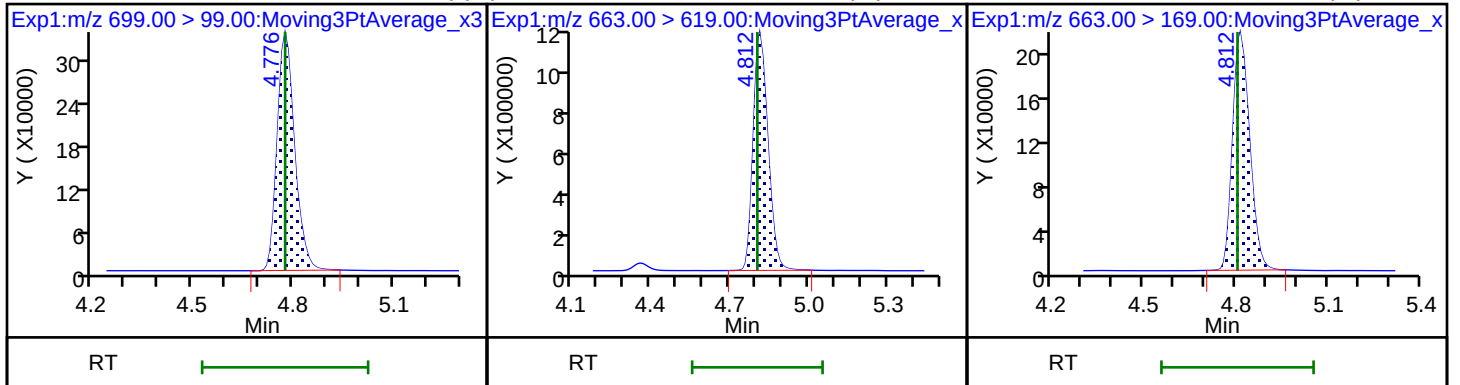
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

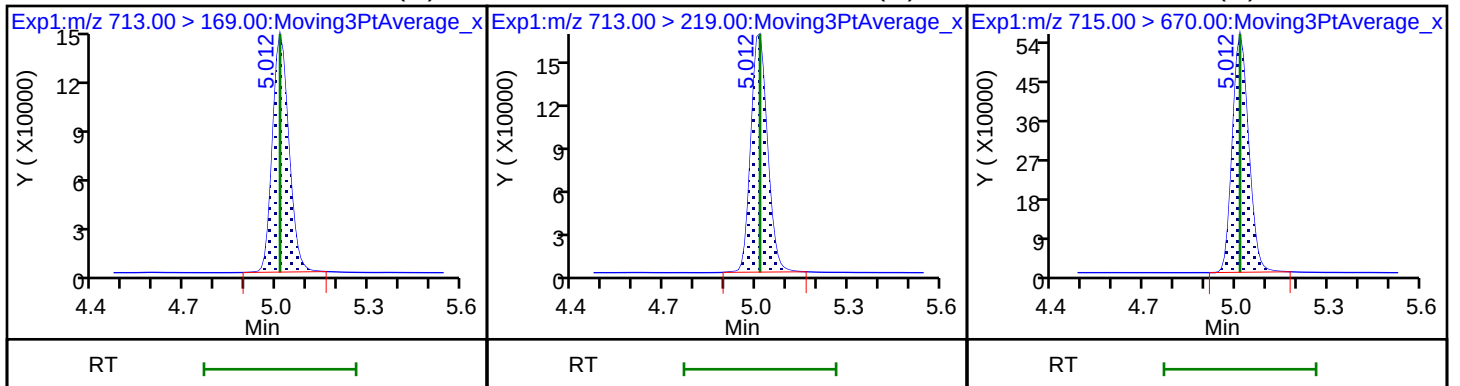
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

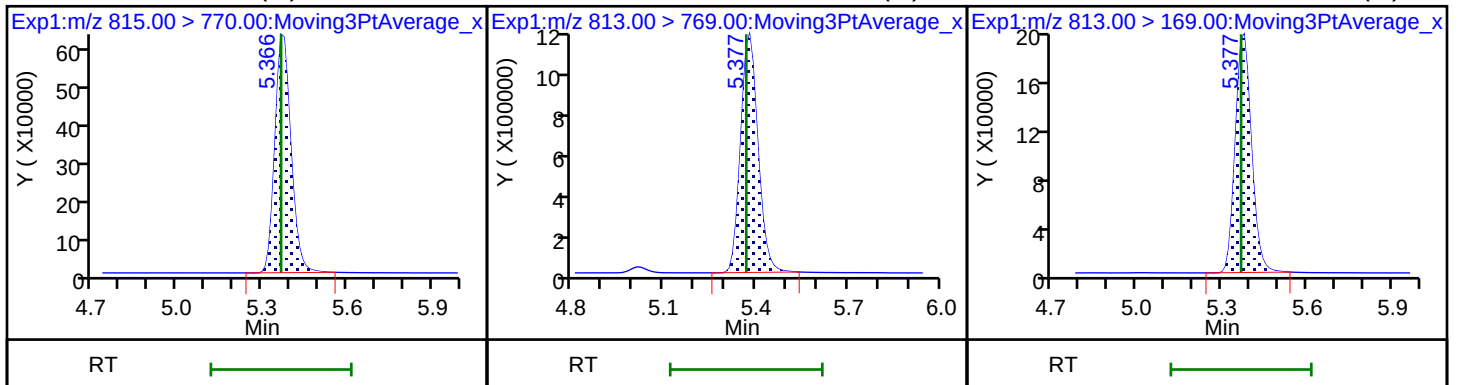
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA (M)

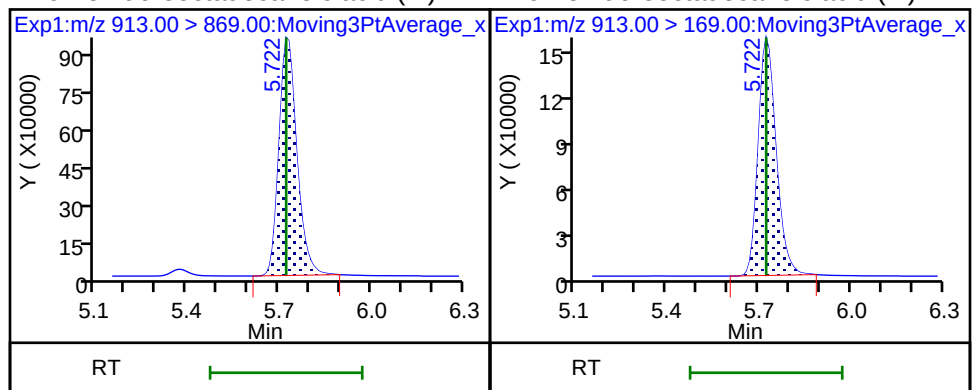
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

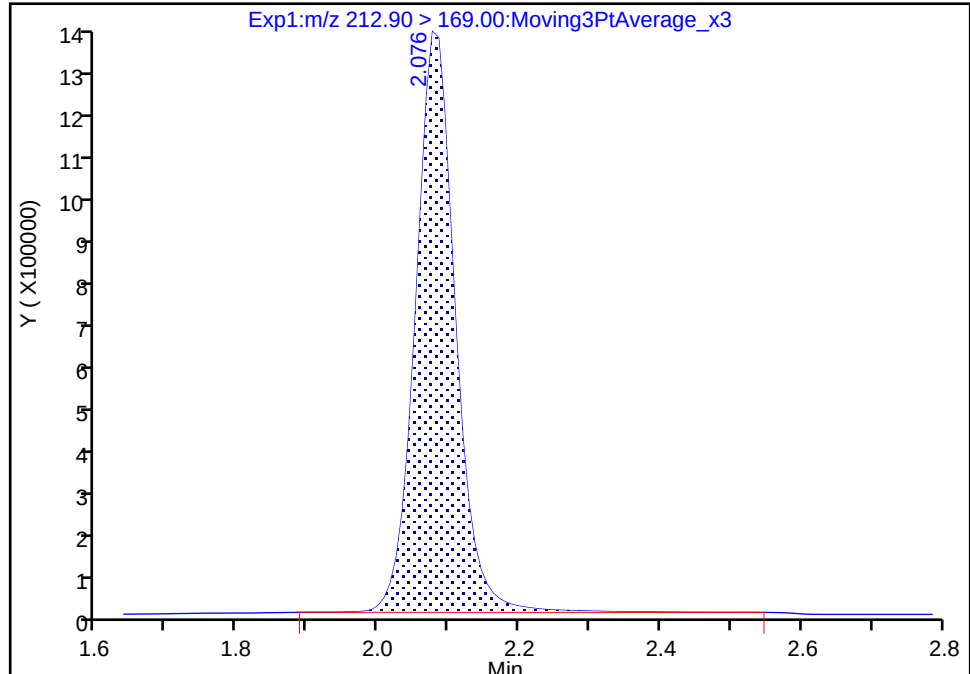
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

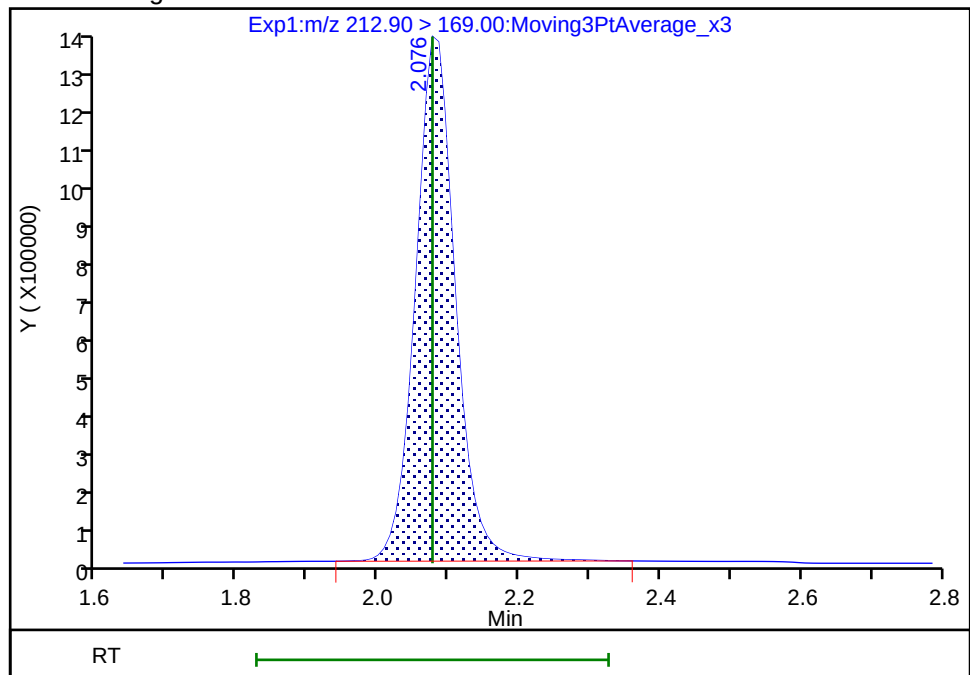
RT: 2.08
Area: 5129420
Amount: 2.272604
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5105461
Amount: 2.309927
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:13:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

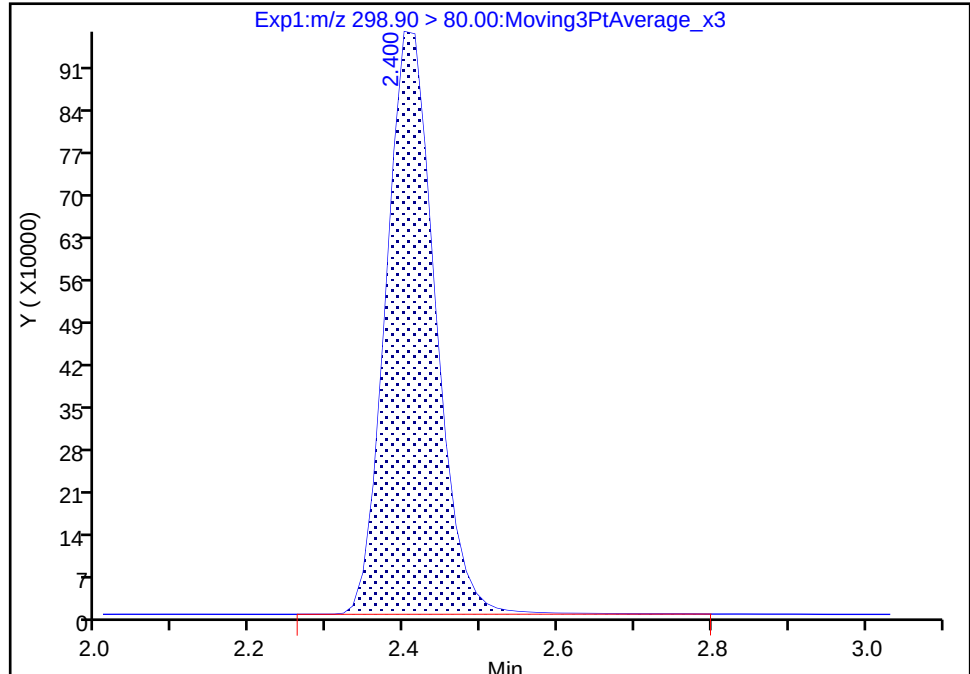
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

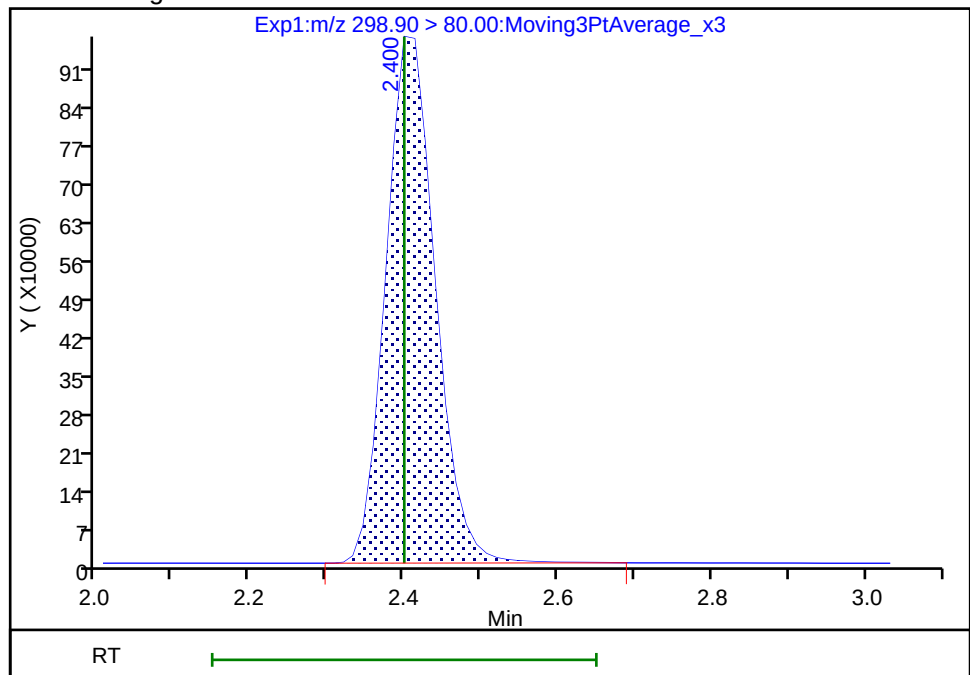
RT: 2.40
Area: 4298516
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4292437
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

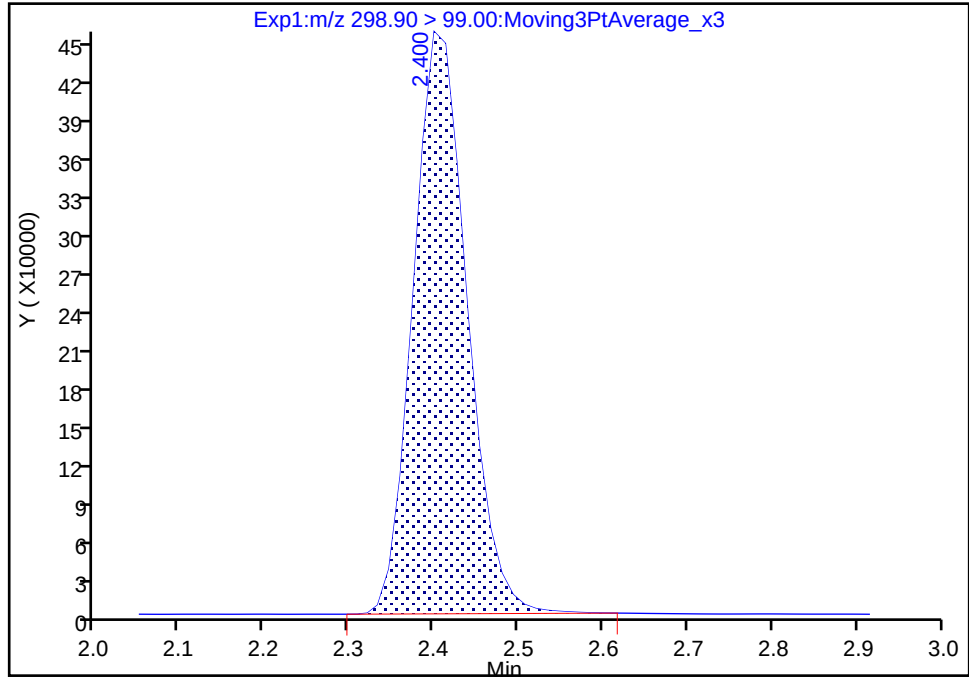
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

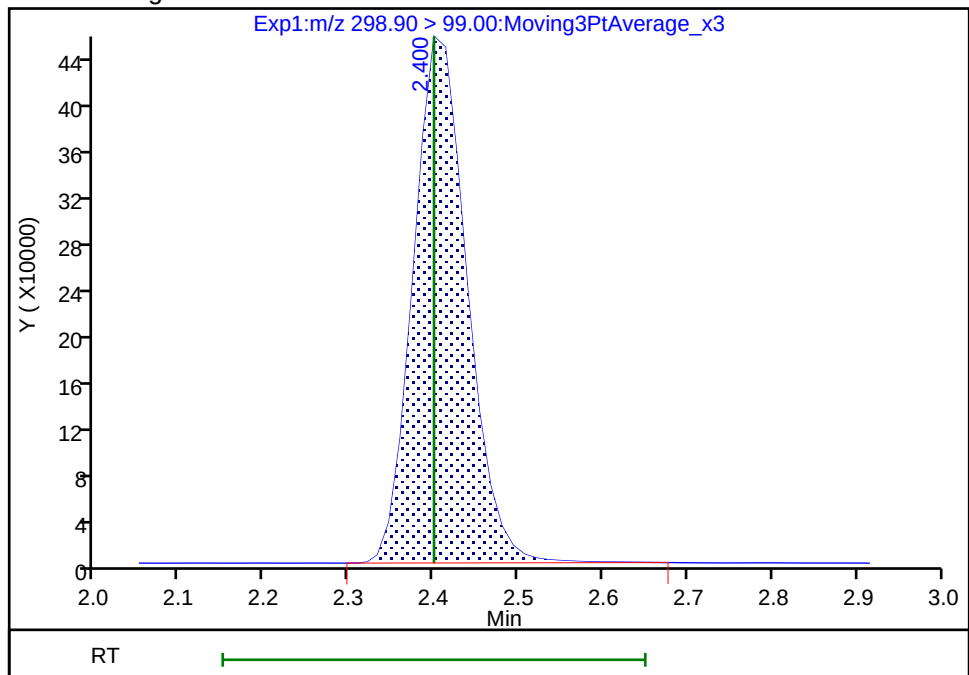
RT: 2.40
Area: 2019708
Amount: 2.130457
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2025175
Amount: 2.151992
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

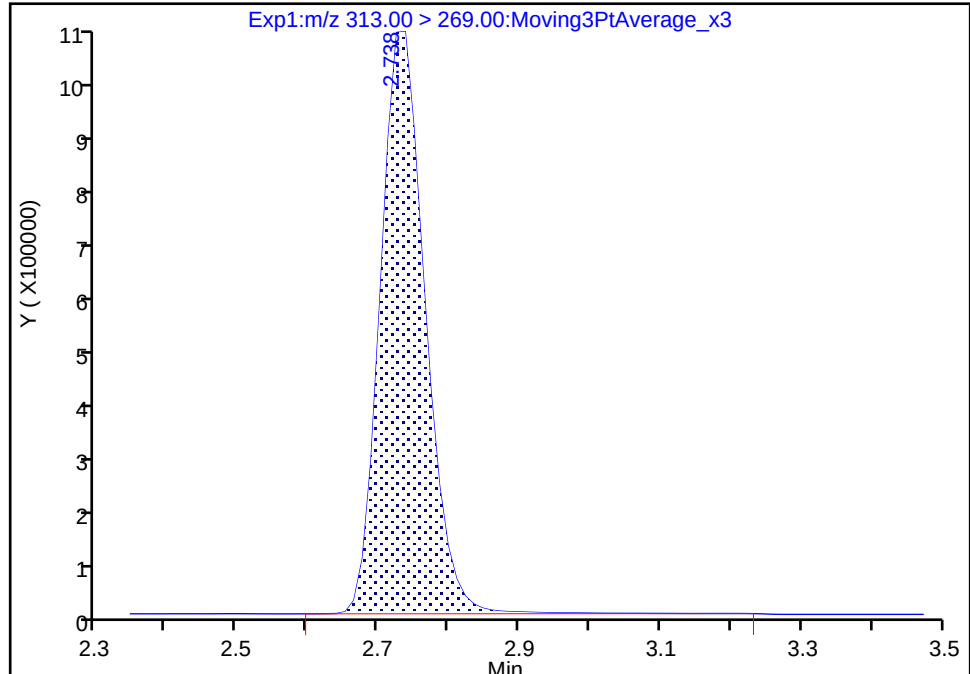
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

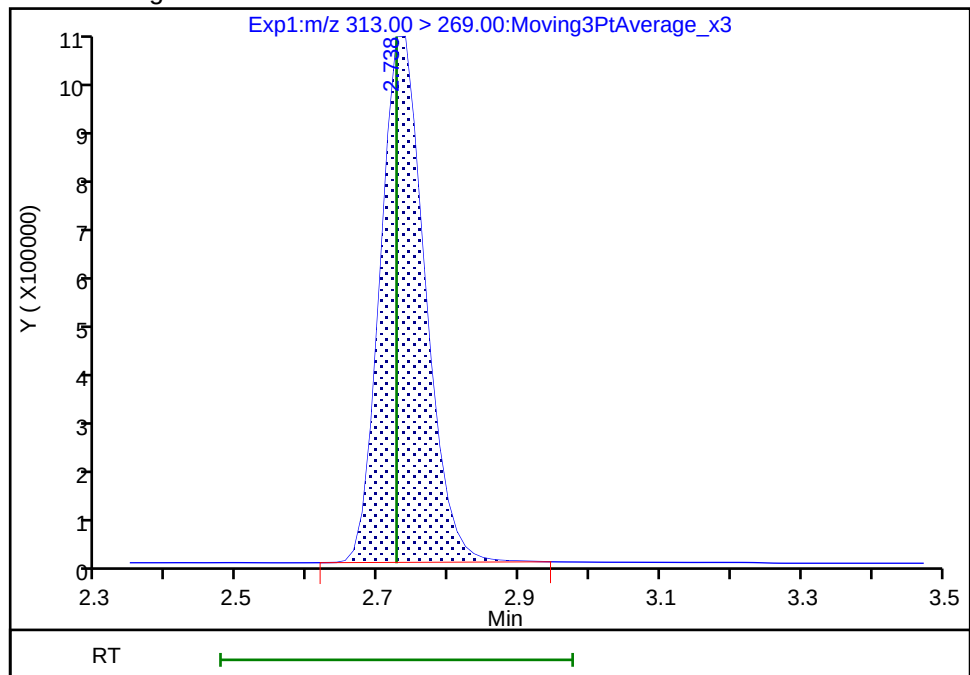
RT: 2.74
Area: 4577392
Amount: 2.375601
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4547952
Amount: 2.410988
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

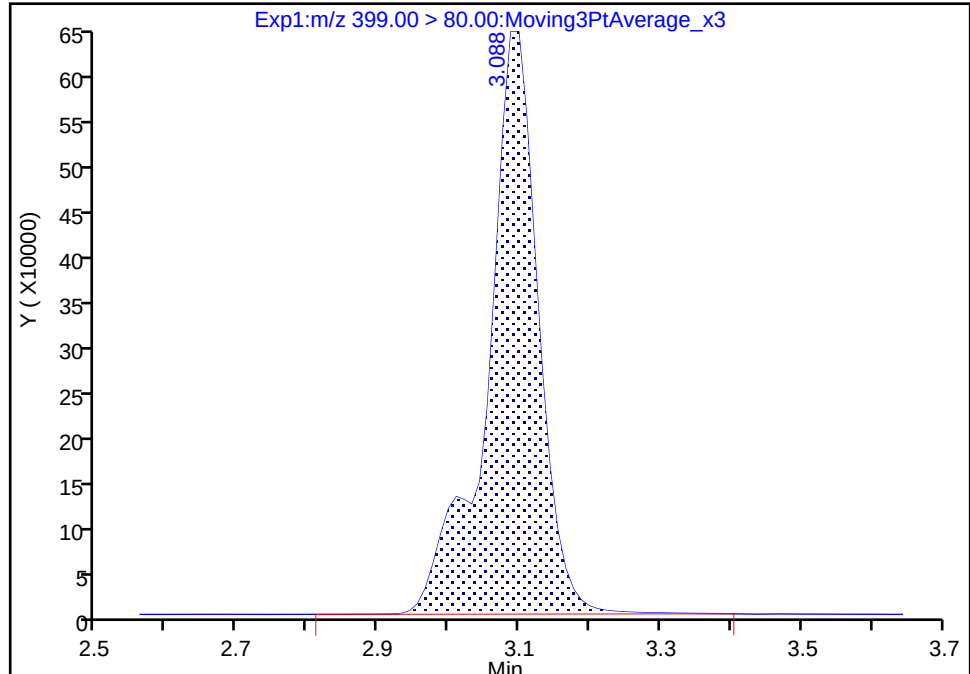
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

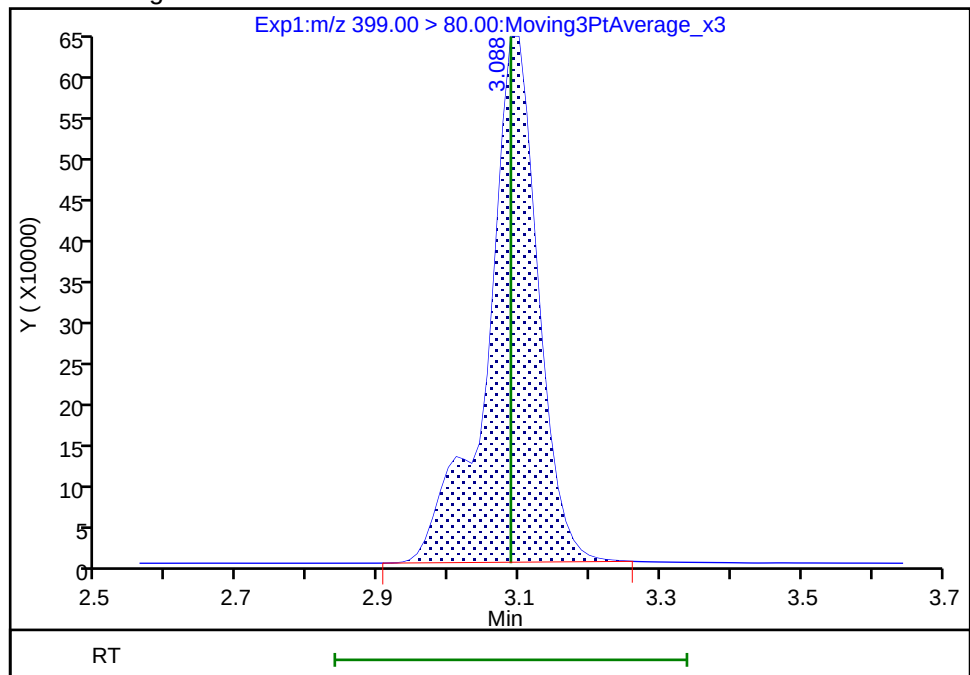
RT: 3.09
Area: 3243457
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3217665
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

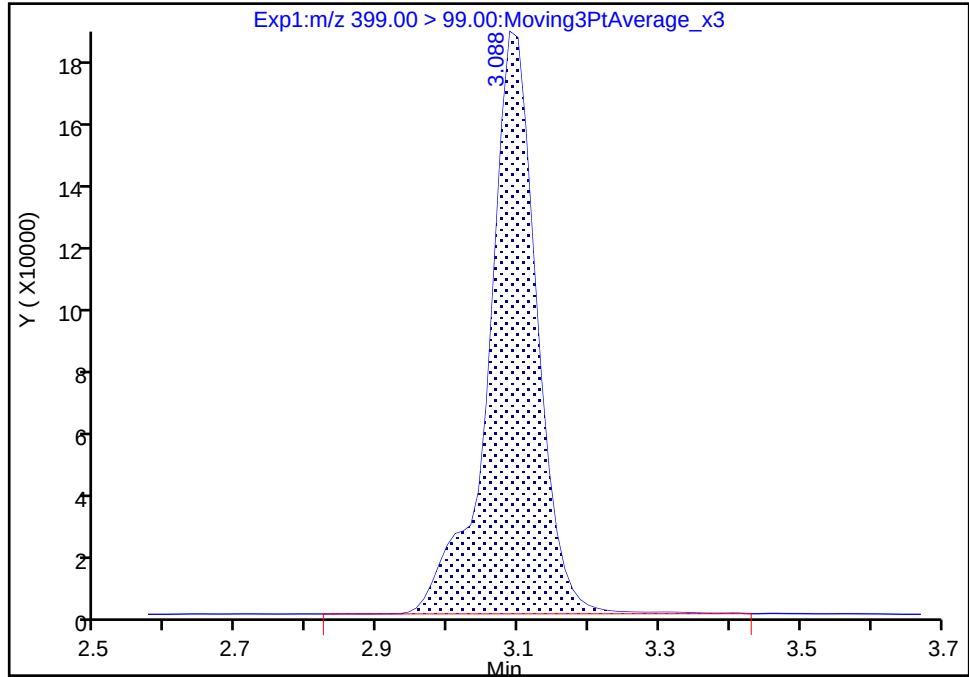
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

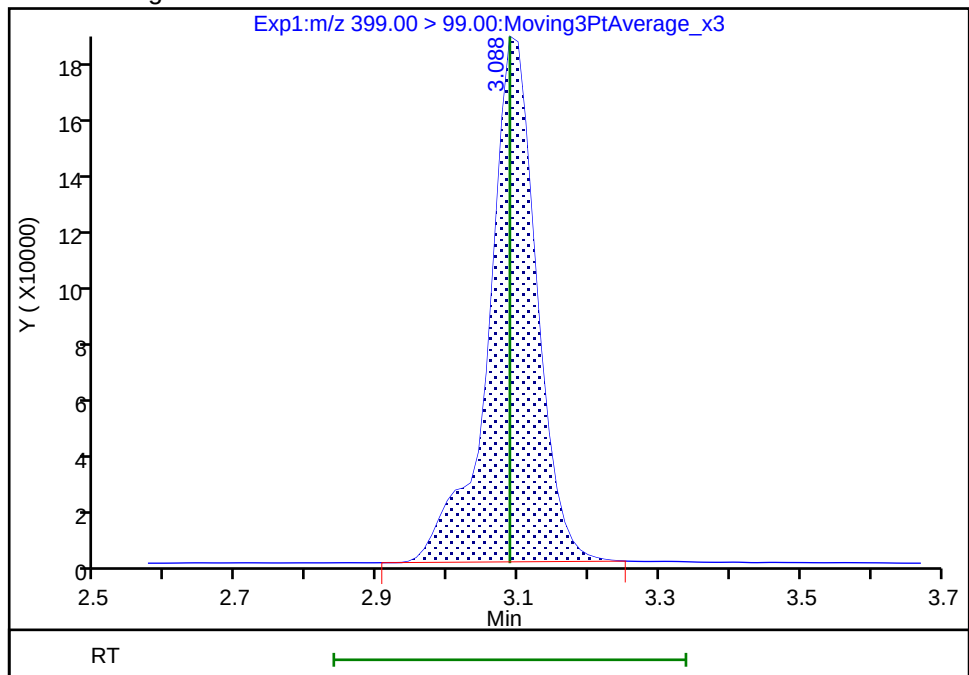
RT: 3.09
Area: 898780
Amount: 2.251723
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 889058
Amount: 2.268961
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

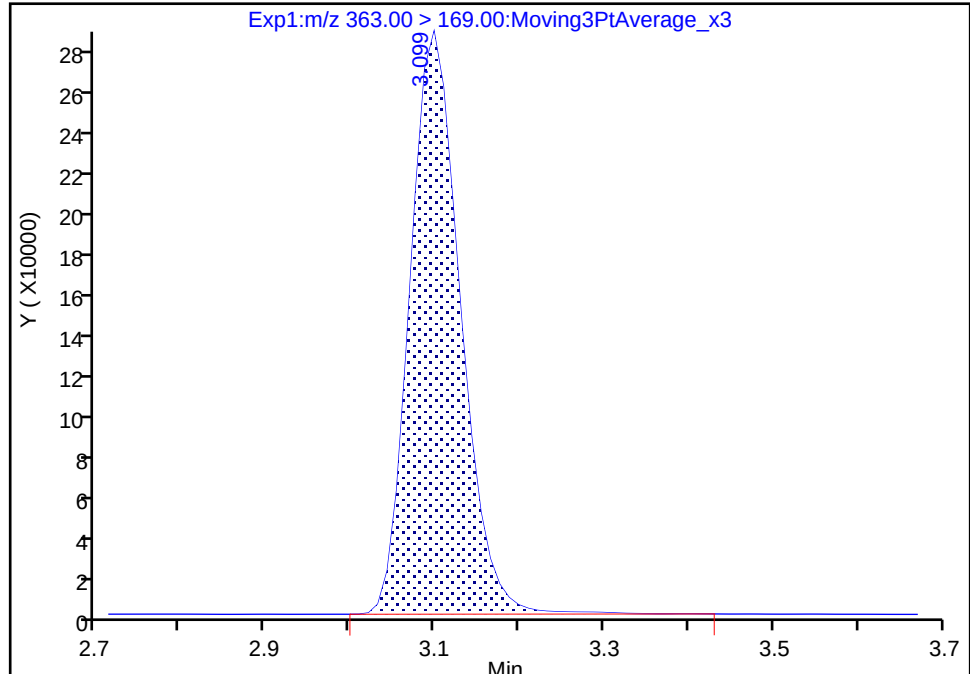
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

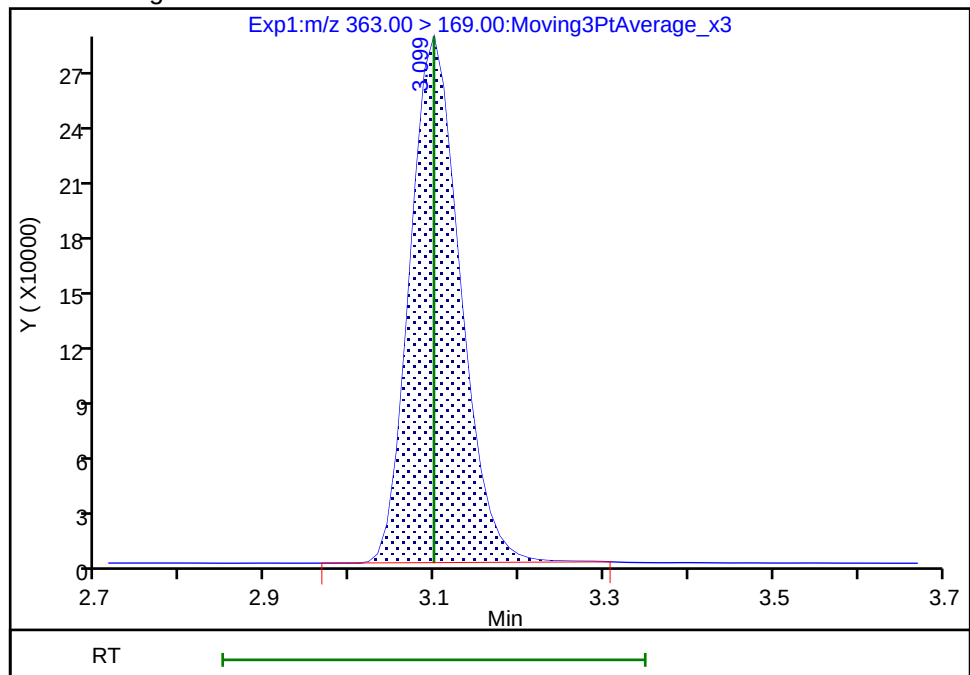
RT: 3.10
Area: 1190139
Amount: 2.284231
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1182521
Amount: 2.331429
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

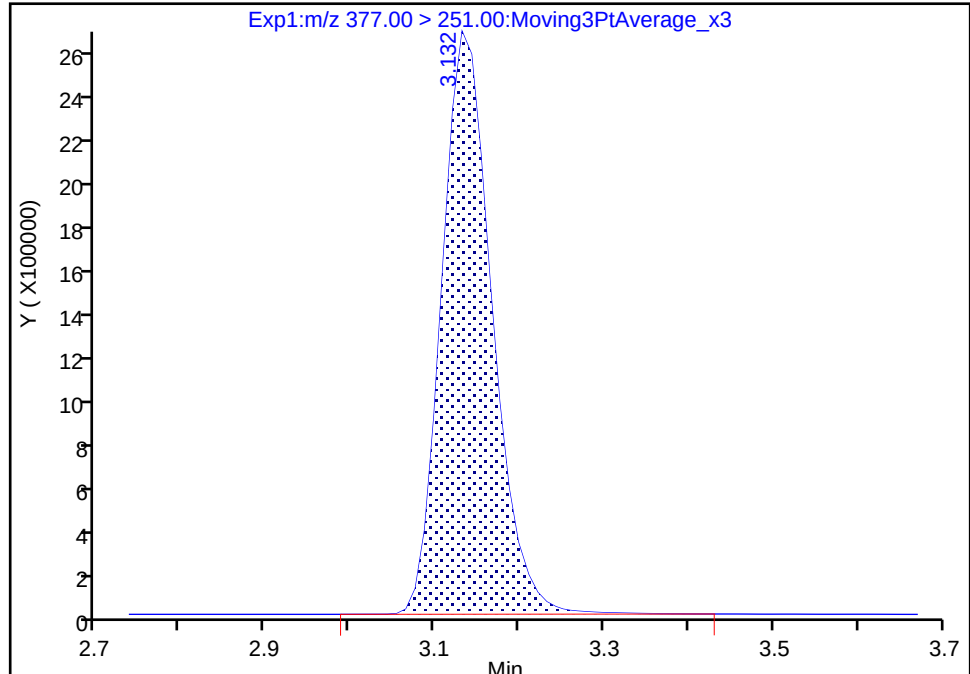
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

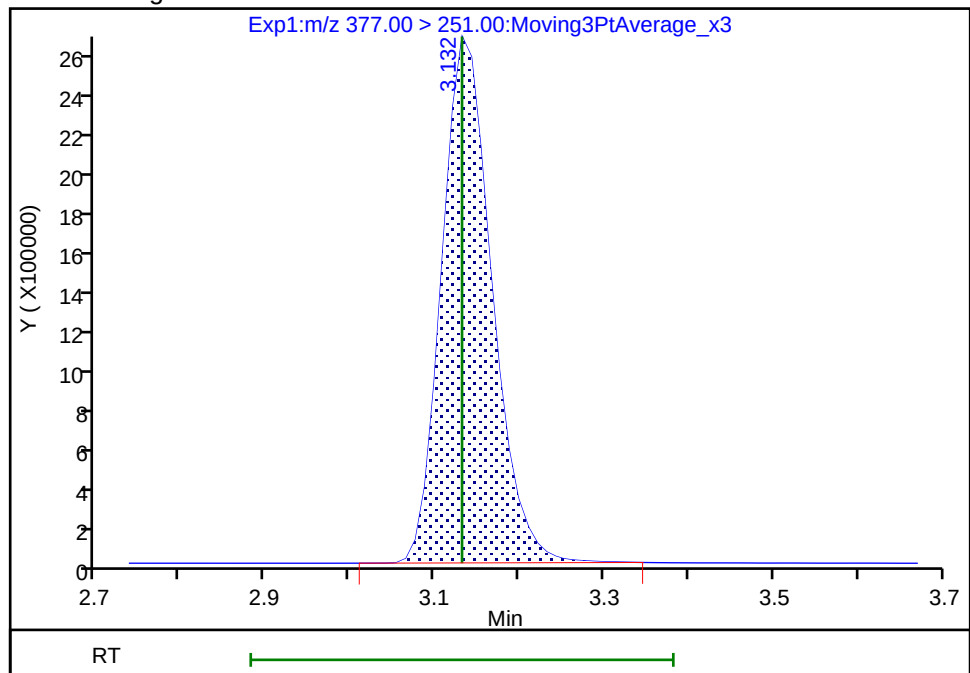
RT: 3.13
Area: 10854434
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 10824421
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

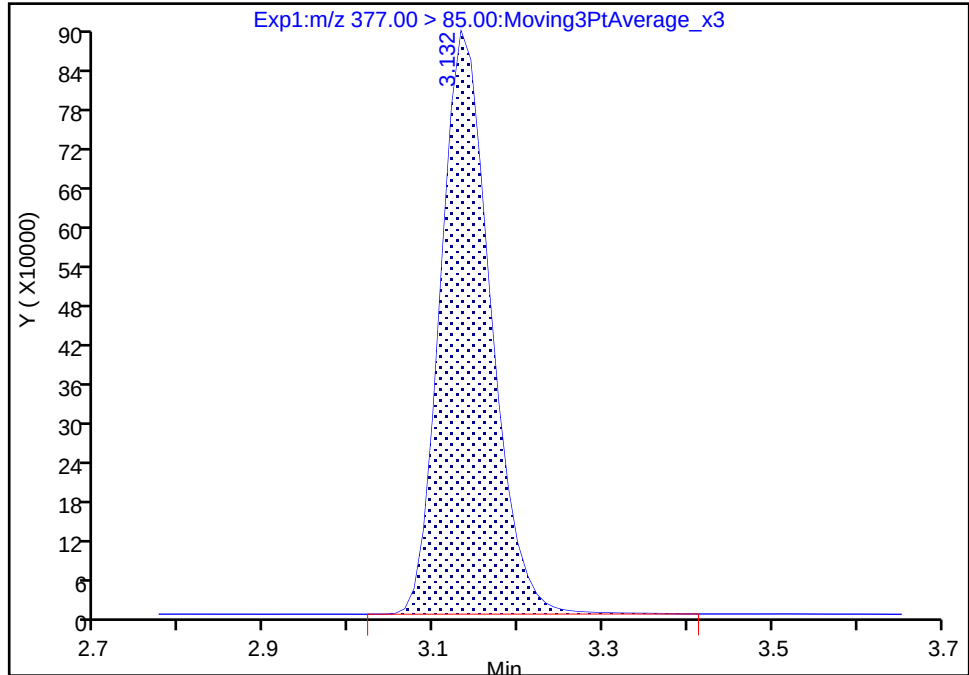
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

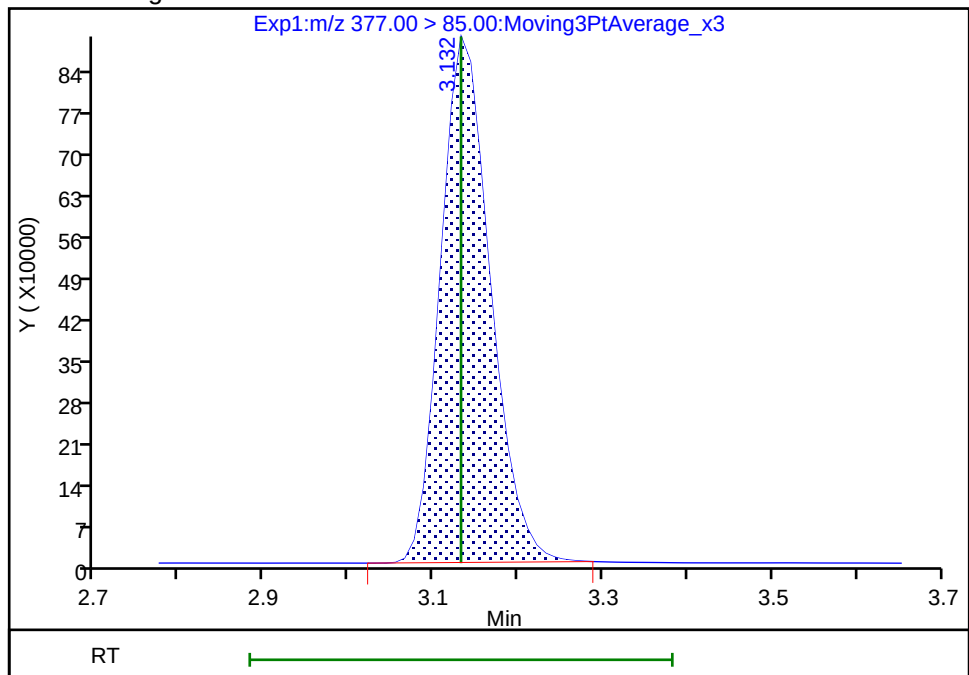
RT: 3.13
Area: 3658251
Amount: 2.160250
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3633058
Amount: 2.237483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:14:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

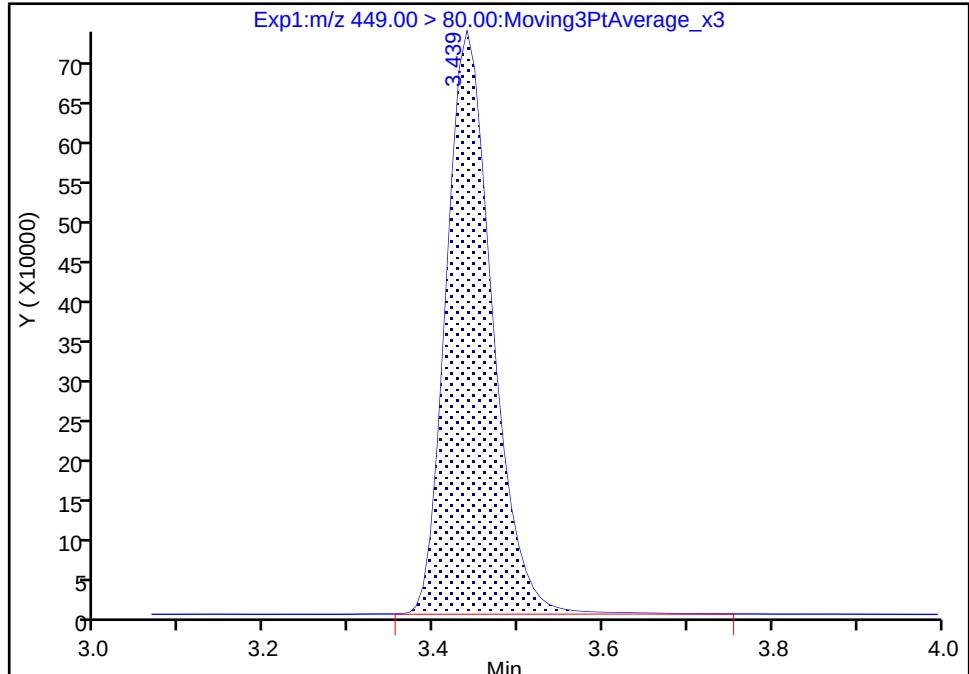
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

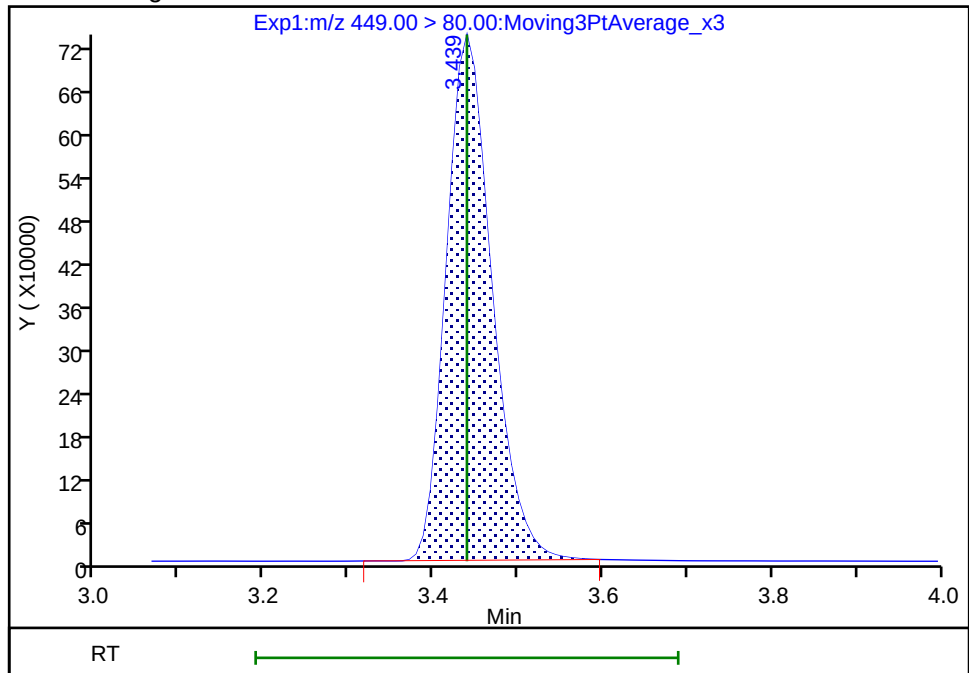
RT: 3.44
Area: 2770748
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2744265
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

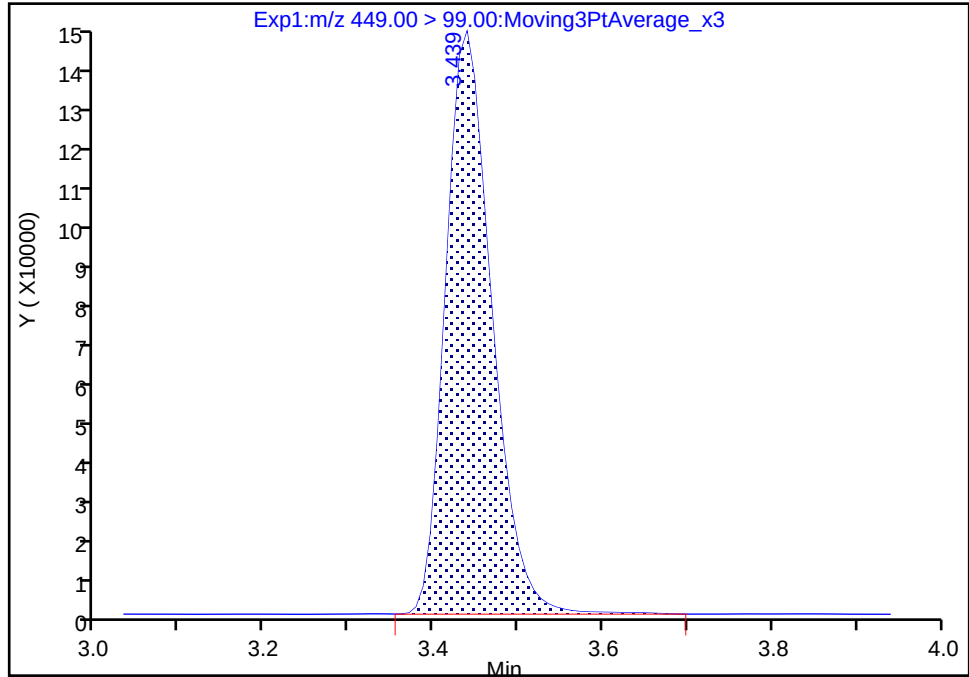
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

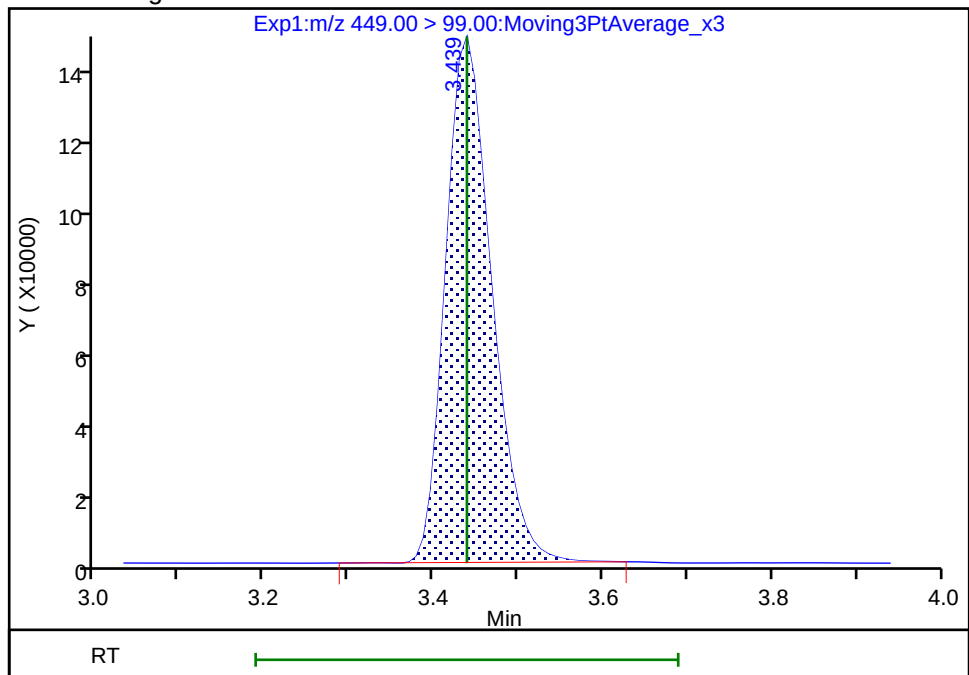
RT: 3.44
Area: 547308
Amount: 2.218630
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 543093
Amount: 2.236625
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 440 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

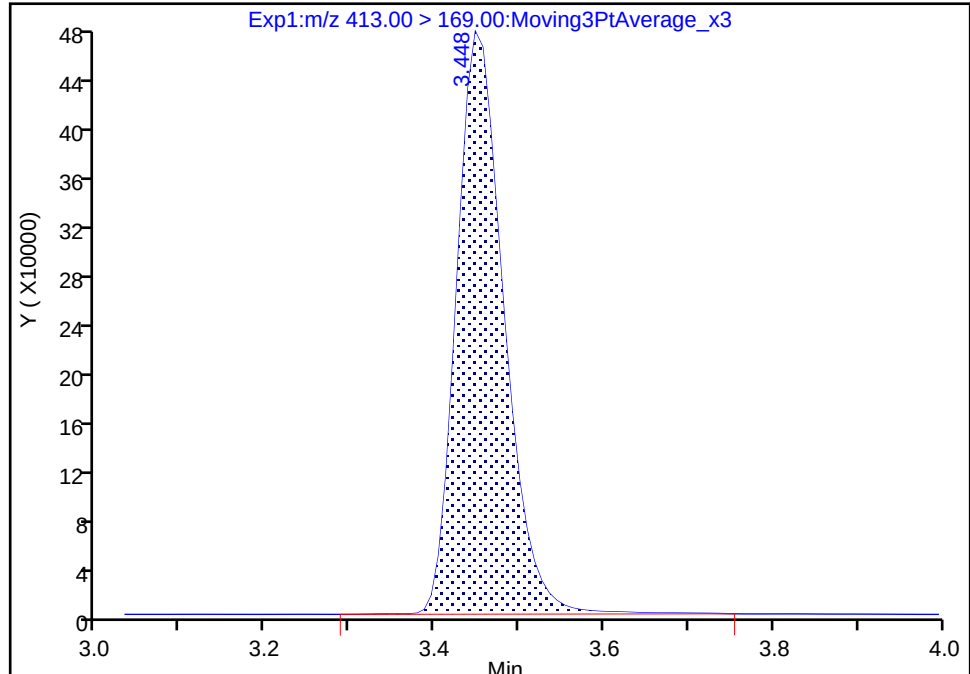
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

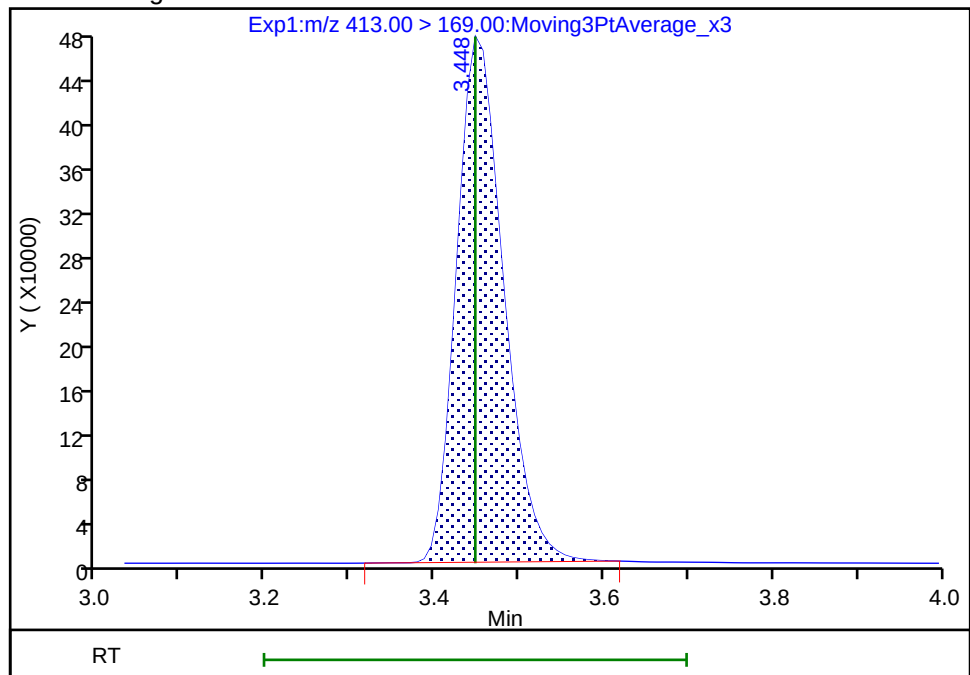
RT: 3.45
Area: 1843216
Amount: 2.392012
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1822258
Amount: 2.439483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

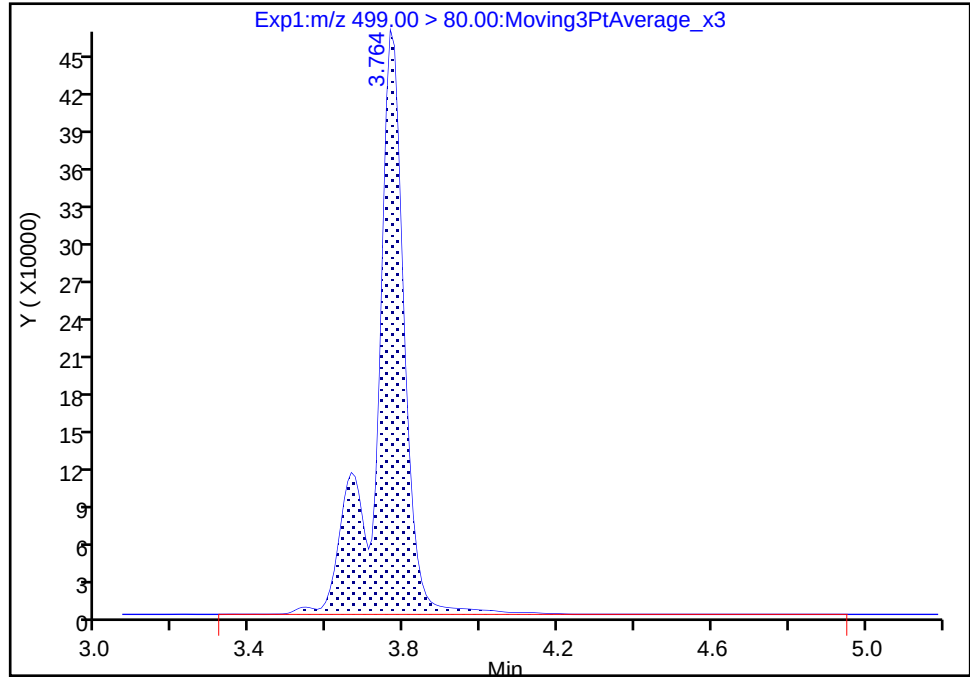
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

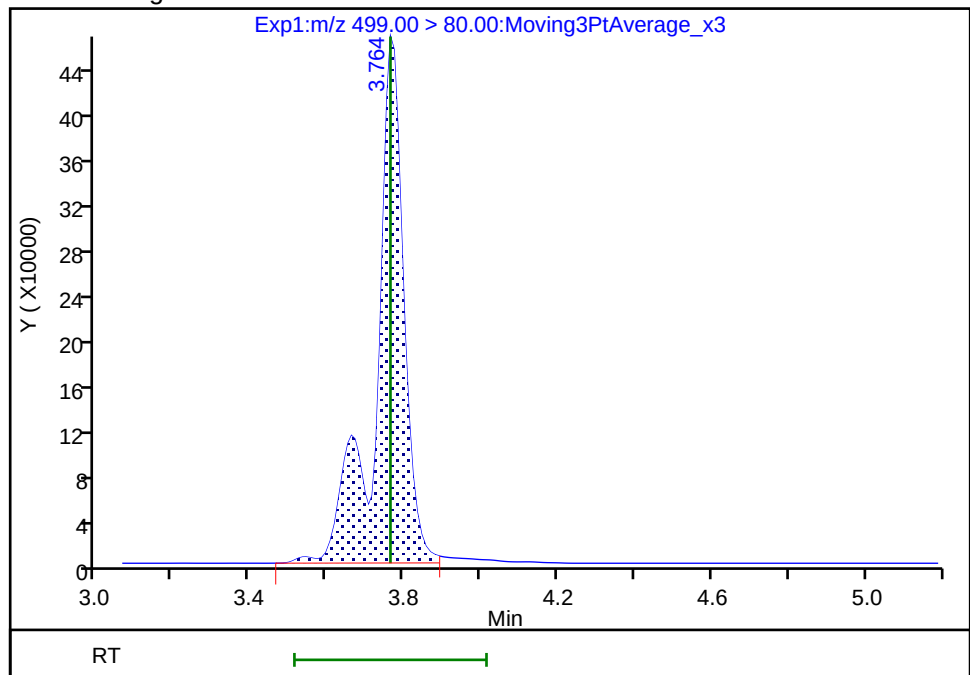
RT: 3.76
Area: 2390090
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2338057
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

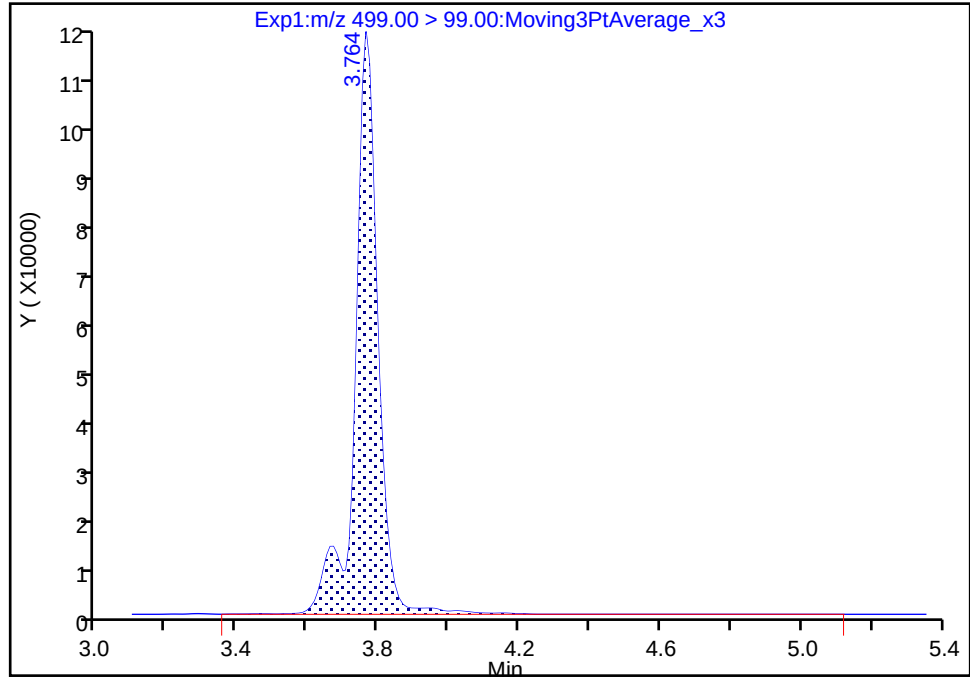
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

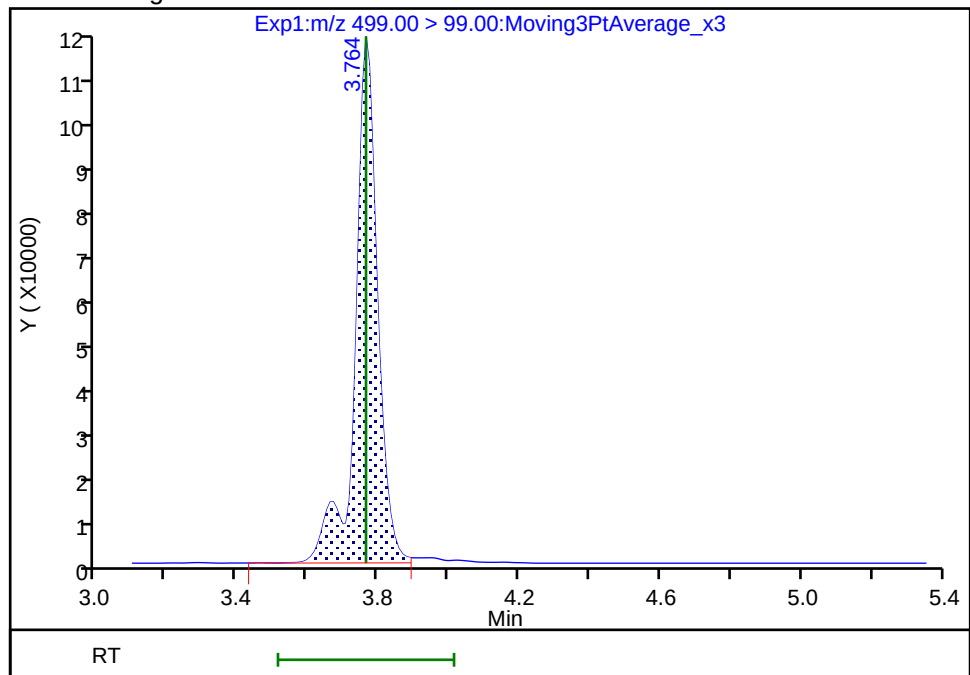
RT: 3.76
Area: 503068
Amount: 2.188375
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 491265
Amount: 2.188506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:15:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 443 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

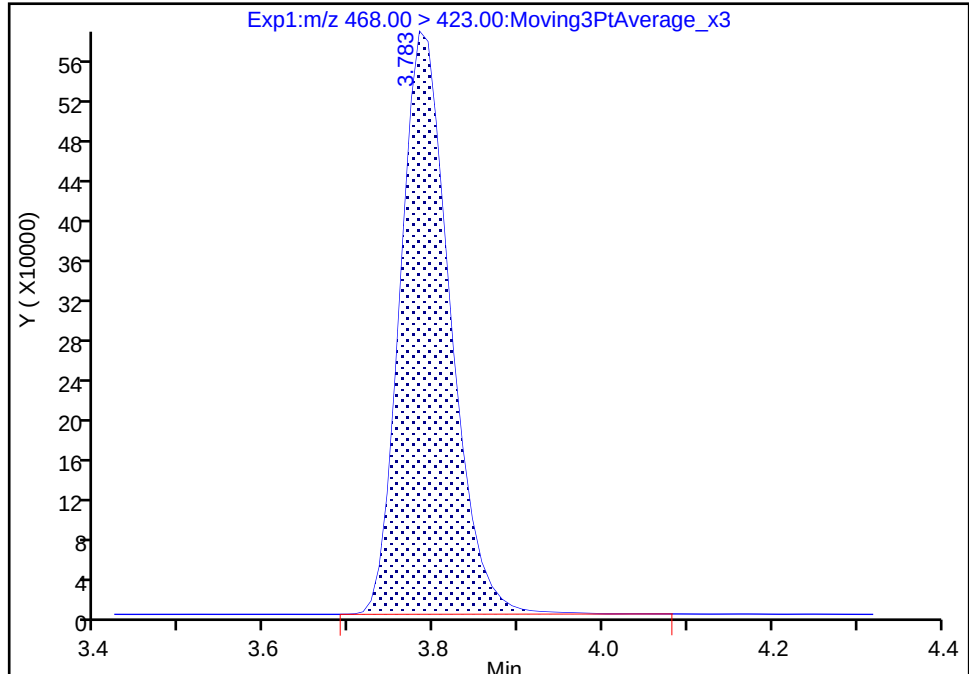
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

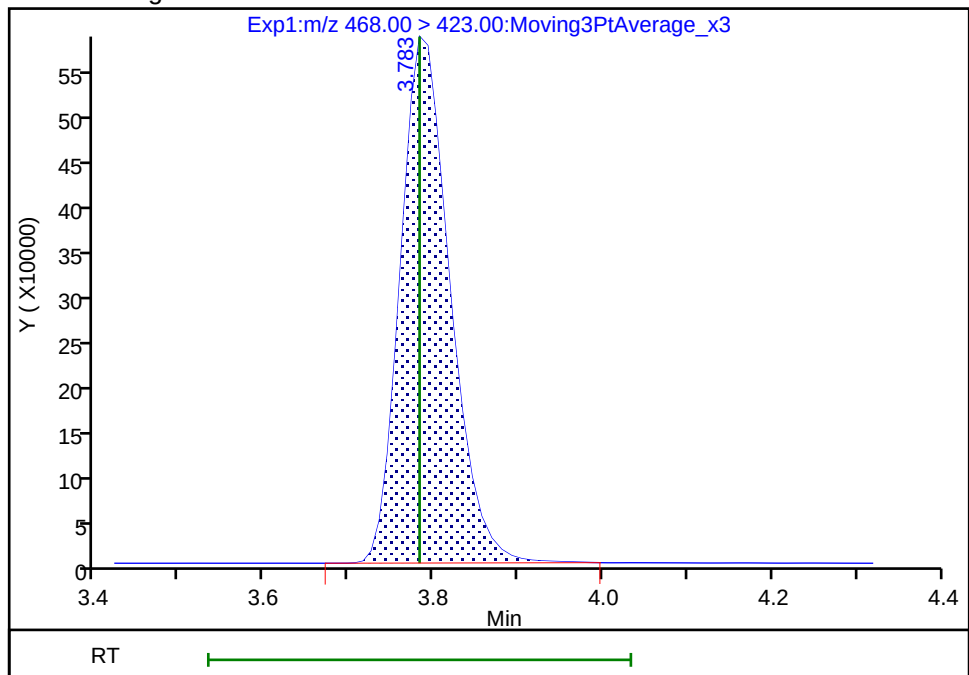
RT: 3.78
Area: 2405533
Amount: 1.262145
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2401890
Amount: 1.260675
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

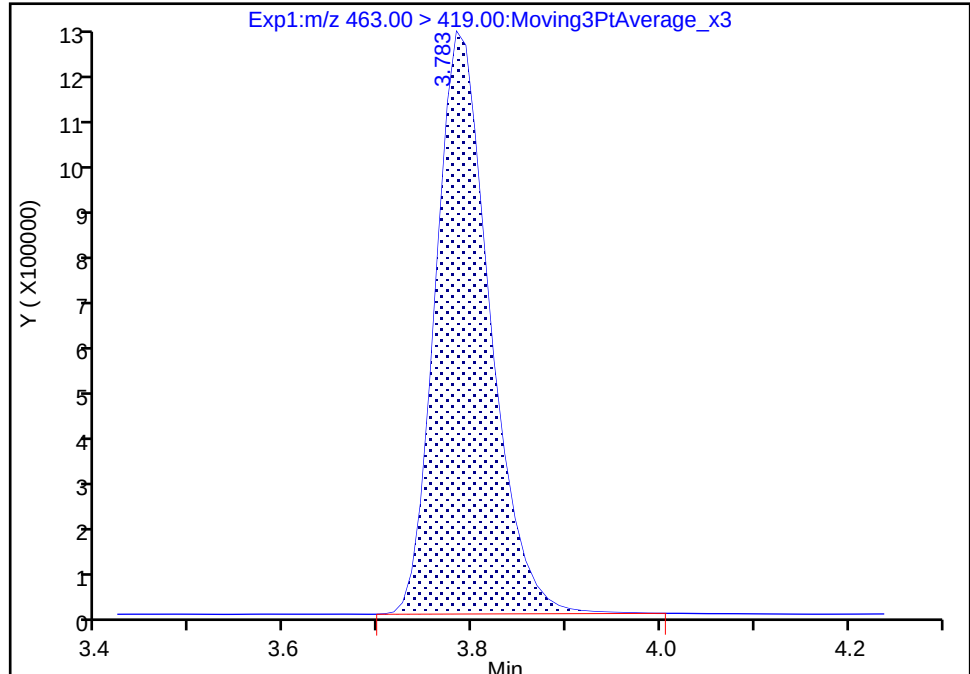
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

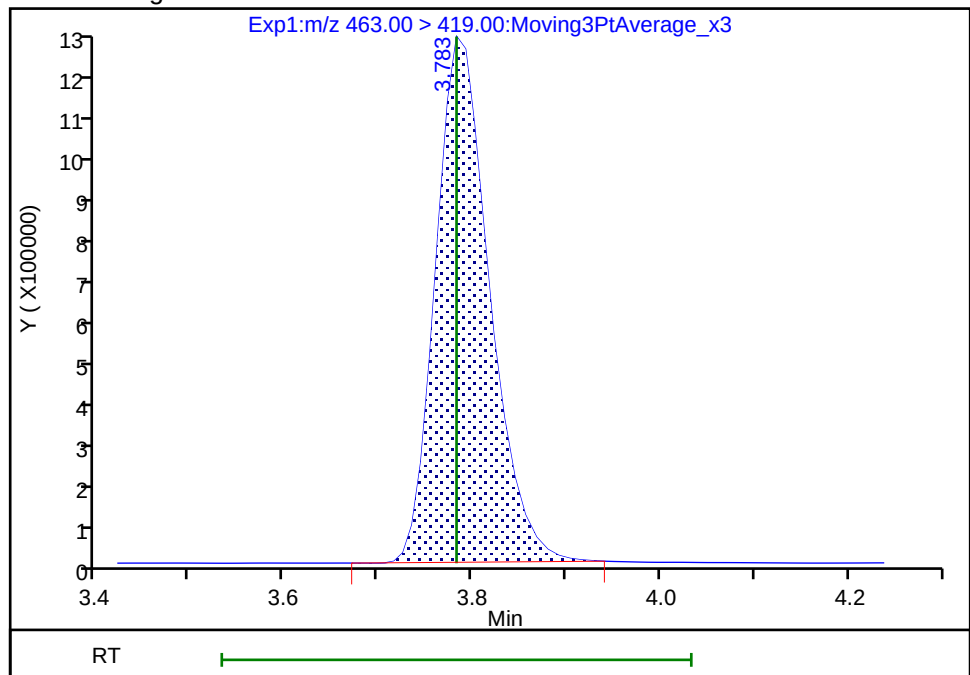
RT: 3.78
Area: 4963599
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 4930997
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

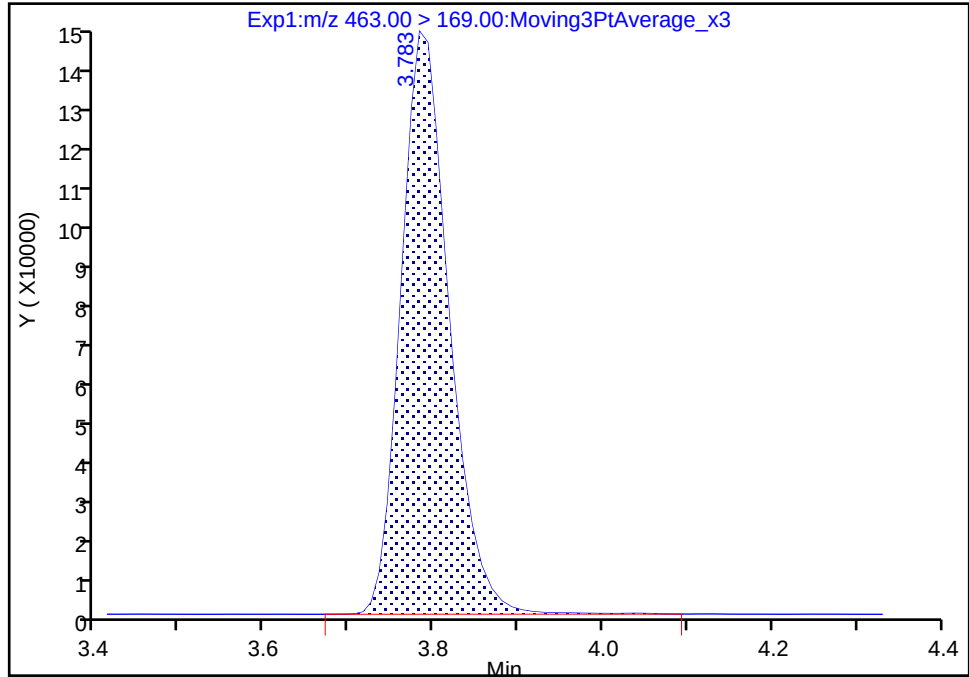
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

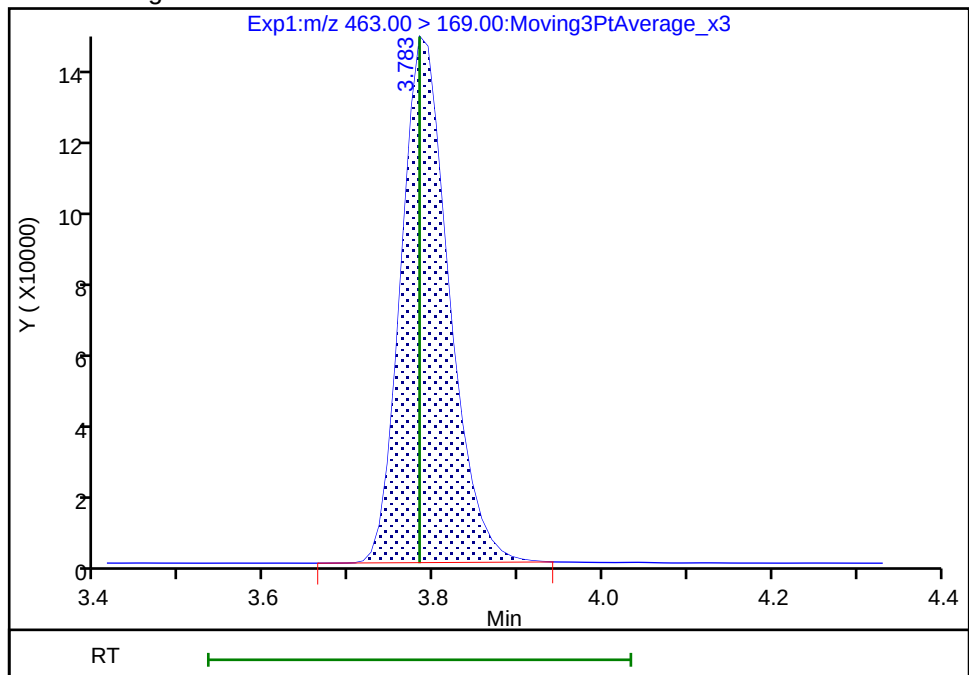
RT: 3.78
Area: 590176
Amount: 2.455713
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 586103
Amount: 2.473798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

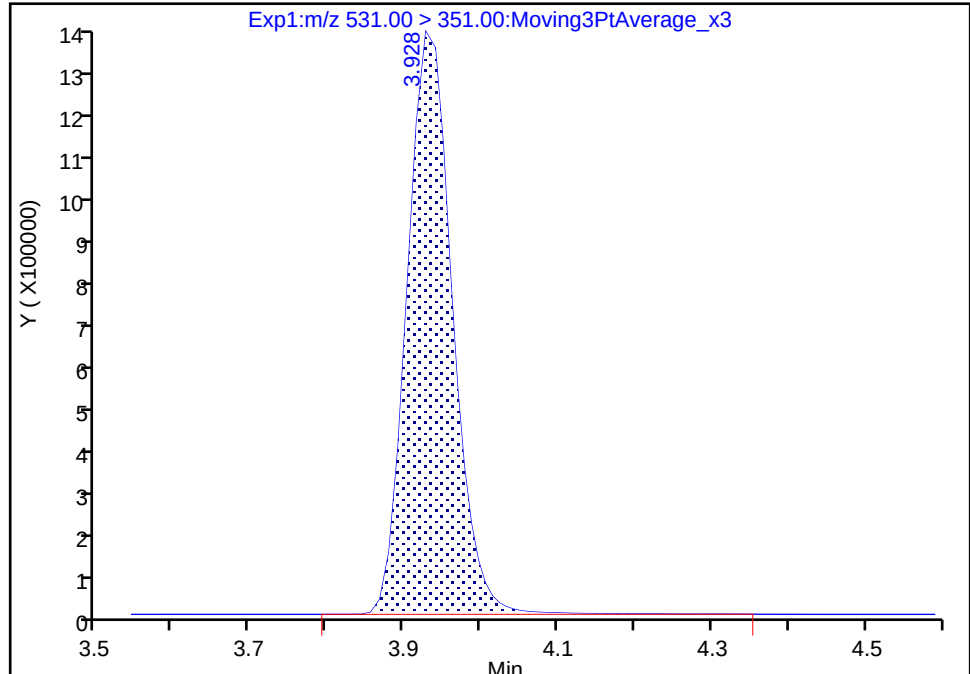
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

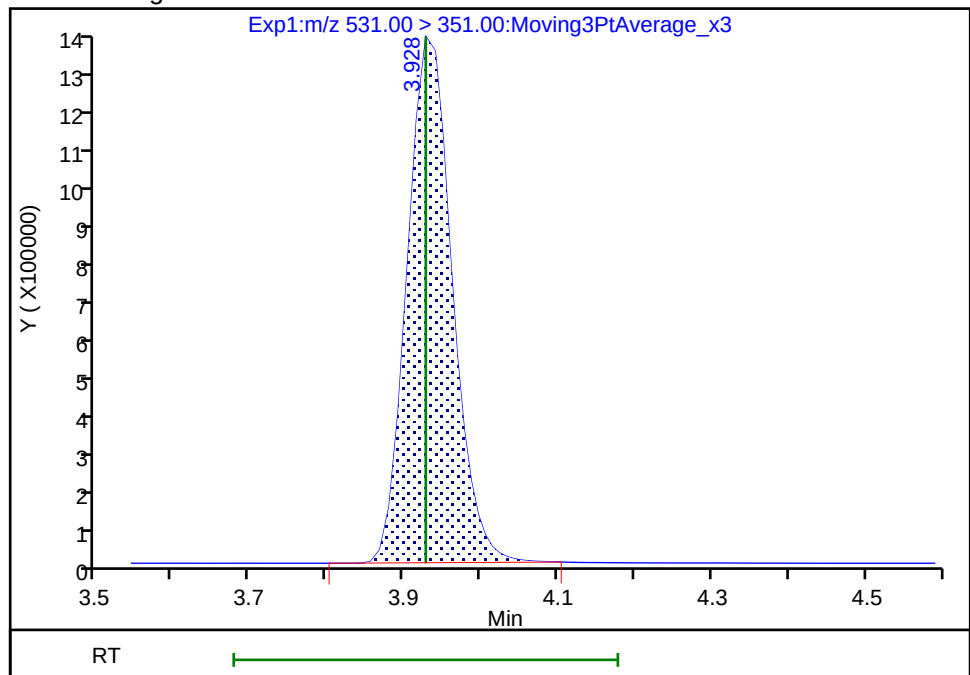
RT: 3.93
Area: 5551905
Amount: 2.217261
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 5512960
Amount: 2.248411
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

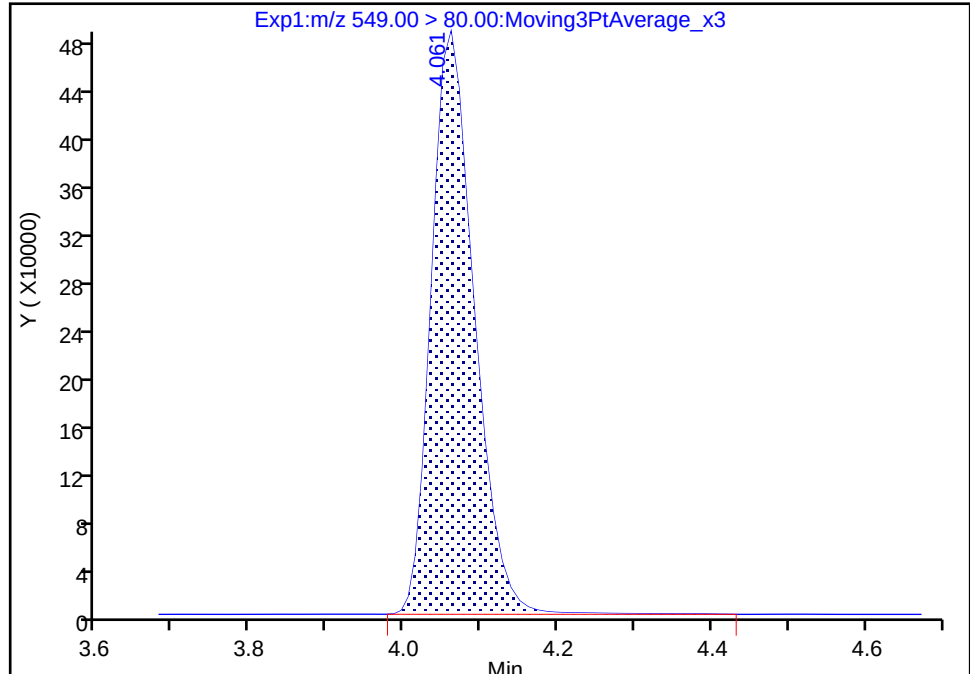
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

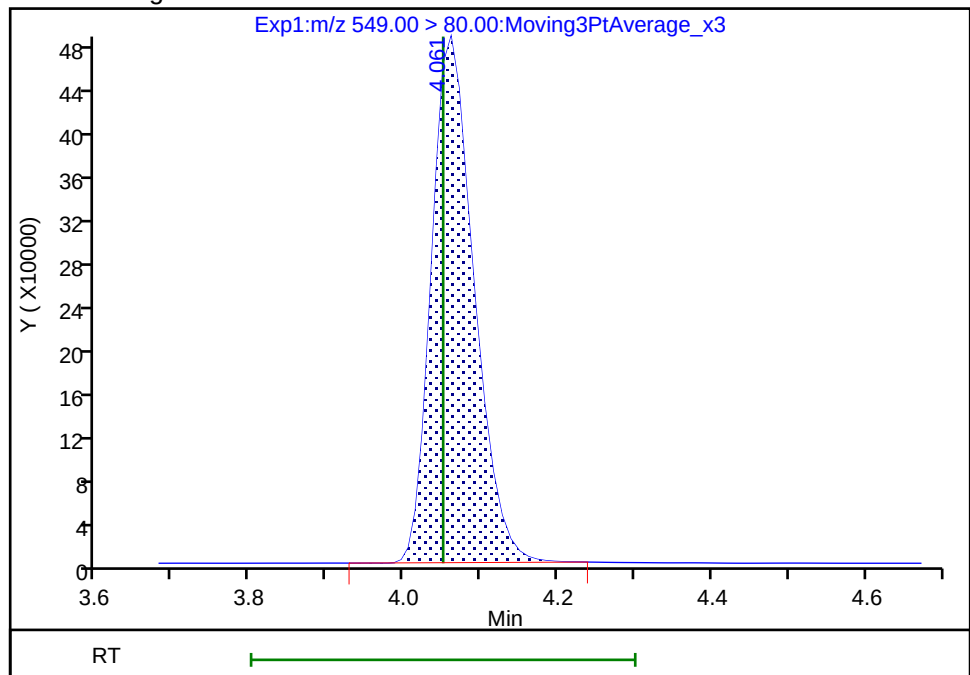
RT: 4.06
Area: 1886351
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 1871298
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

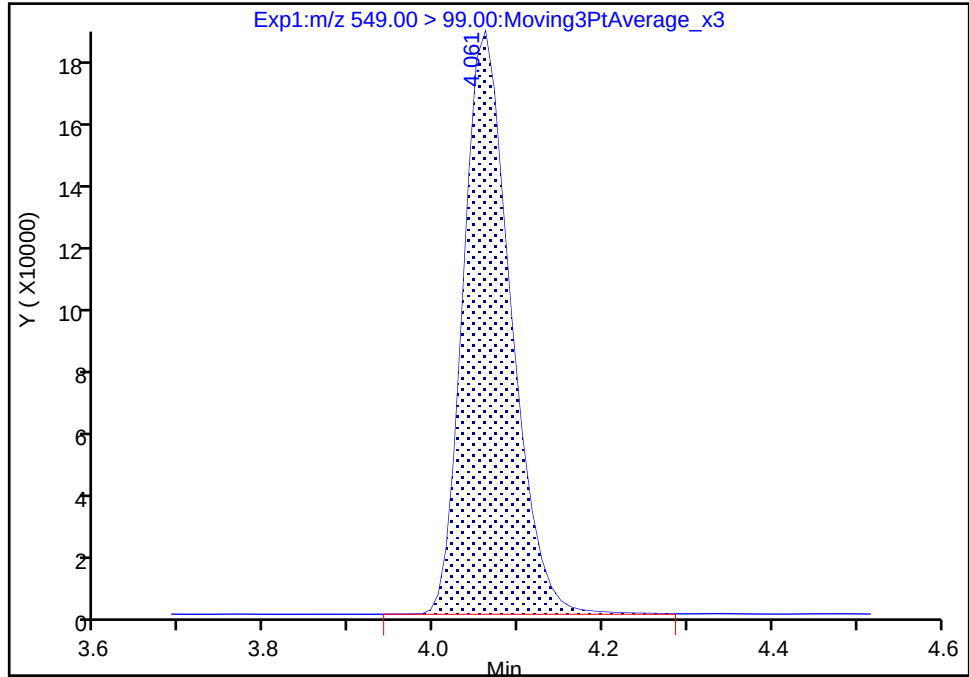
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

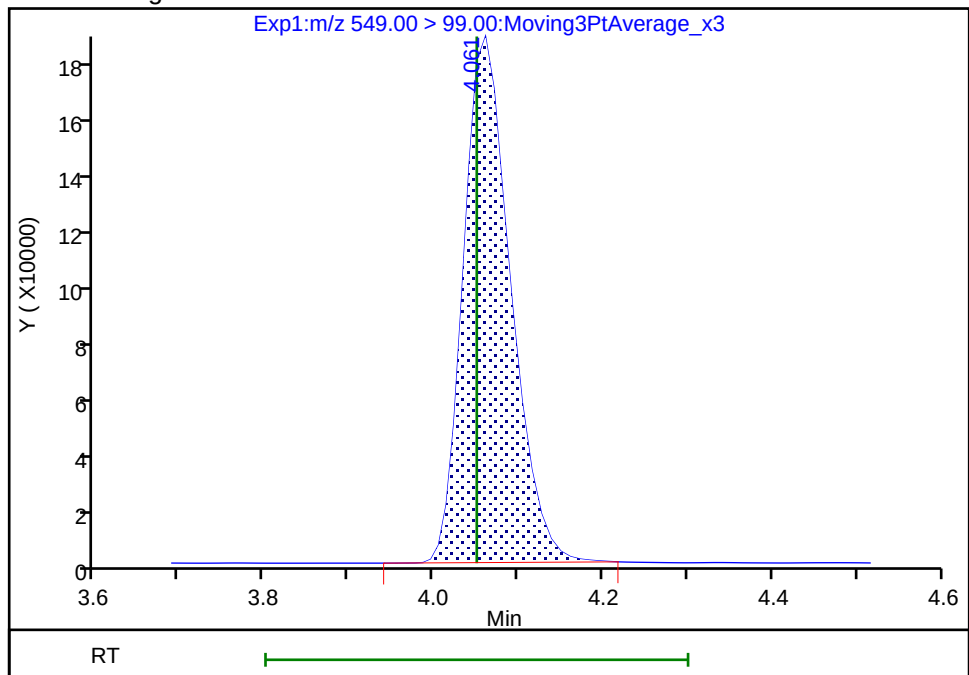
RT: 4.06
Area: 731815
Amount: 2.304603
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 726837
Amount: 2.320704
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:16:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

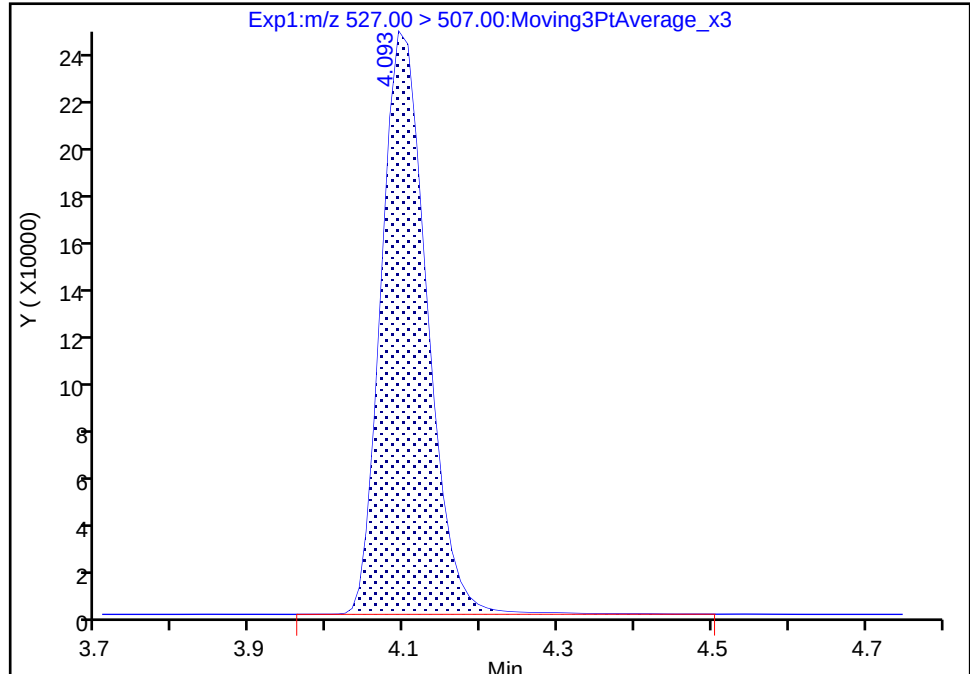
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

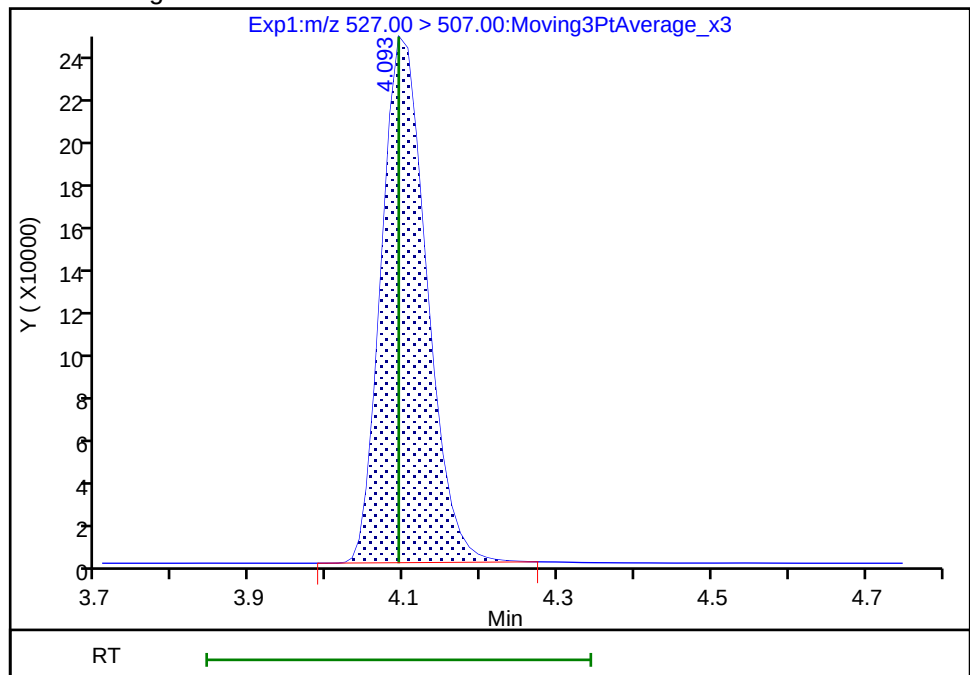
RT: 4.09
Area: 1022916
Amount: 2.334633
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1014644
Amount: 2.339445
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

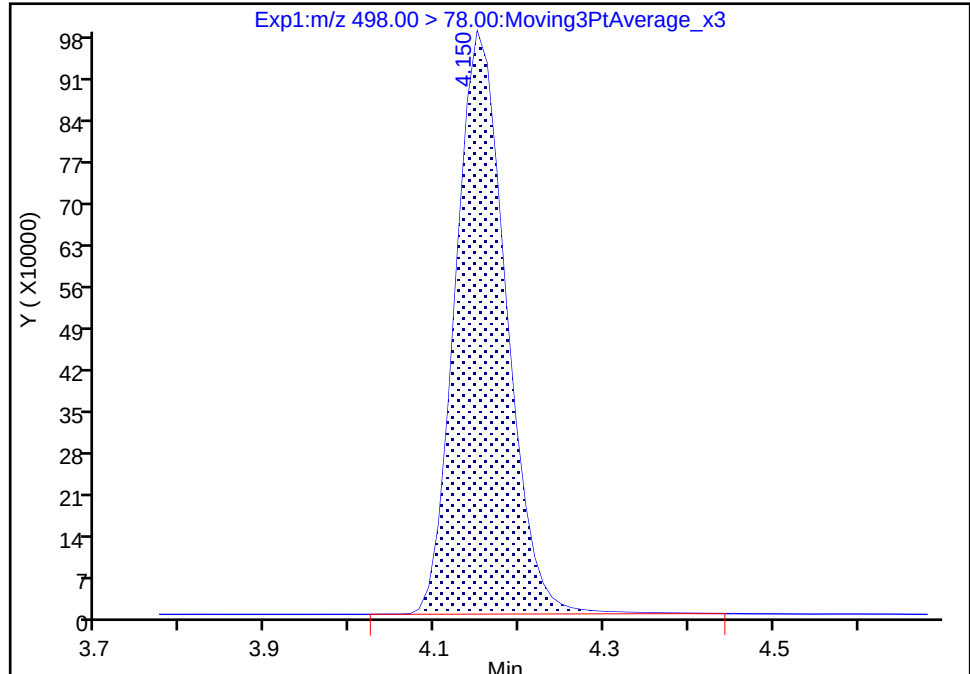
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

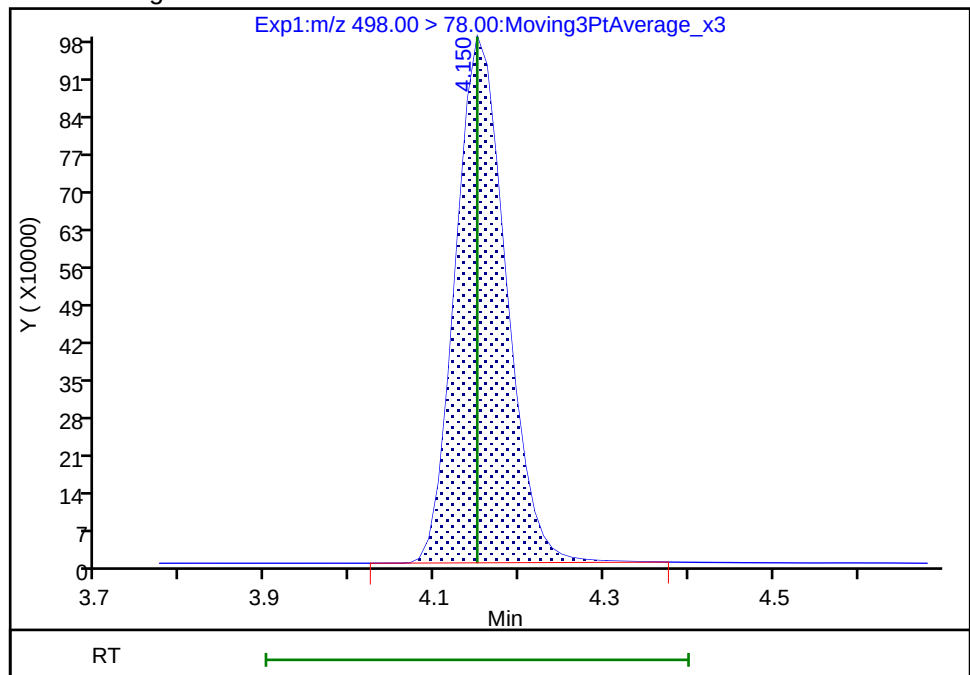
RT: 4.15
Area: 4106928
Amount: 2.428009
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4094524
Amount: 2.457676
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

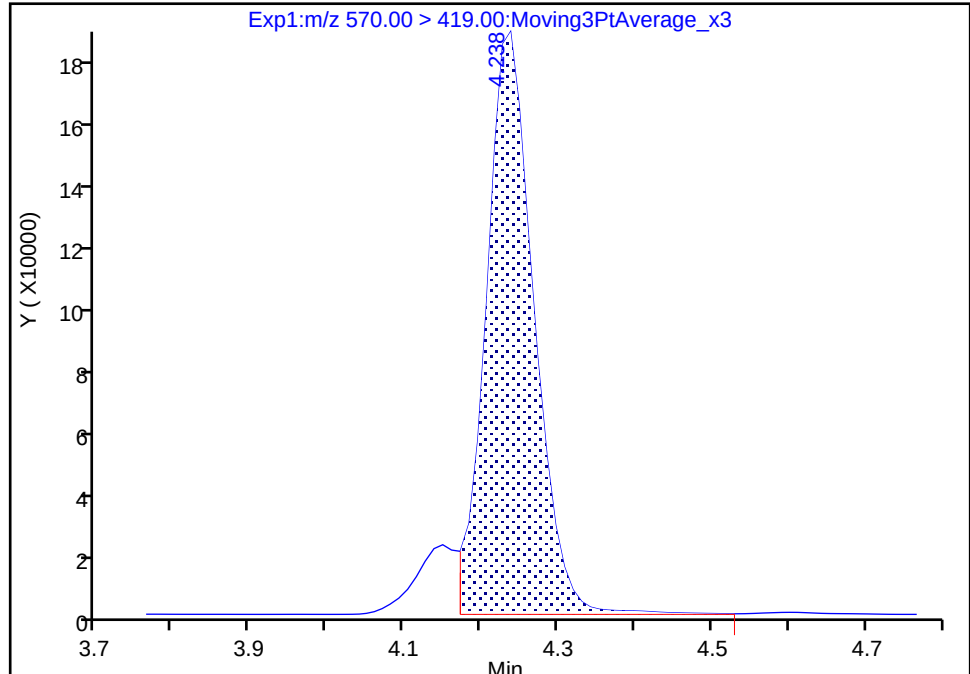
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

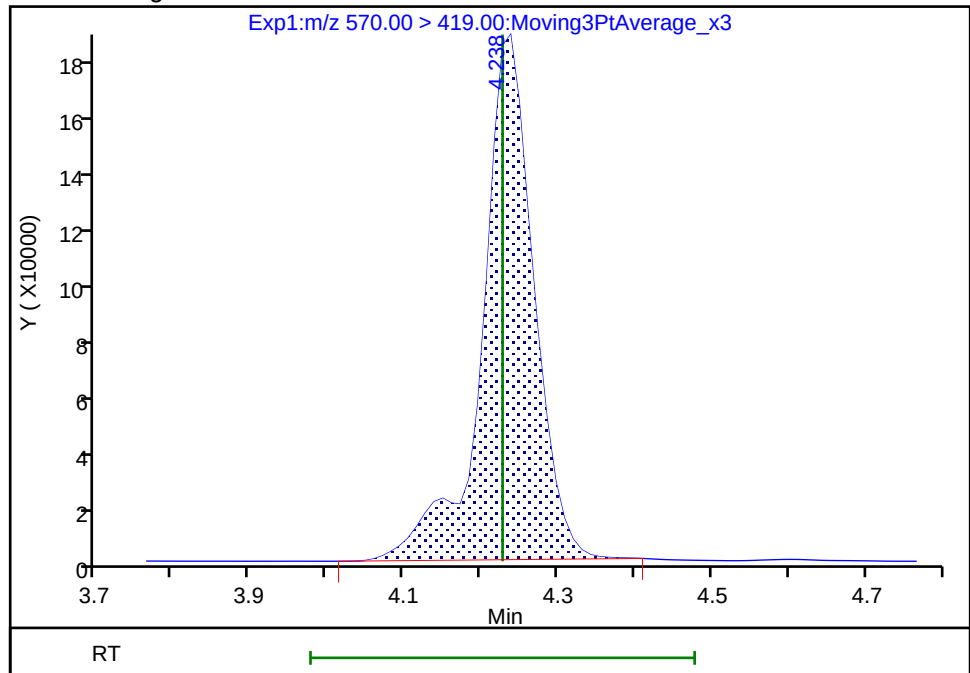
RT: 4.24
Area: 804661
Amount: 2.140771
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 873622
Amount: 2.456951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

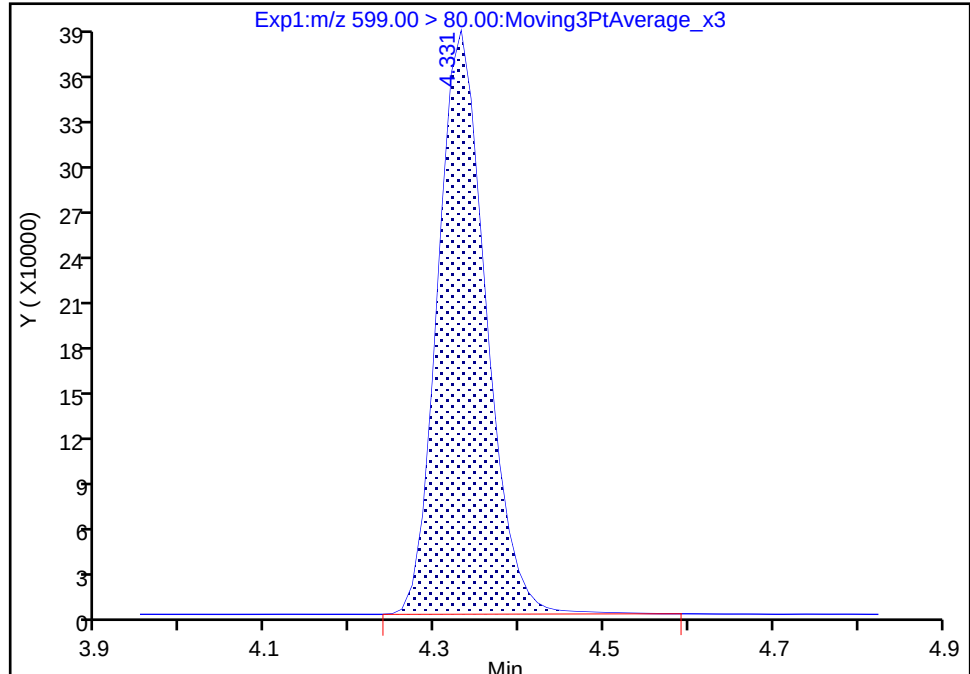
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

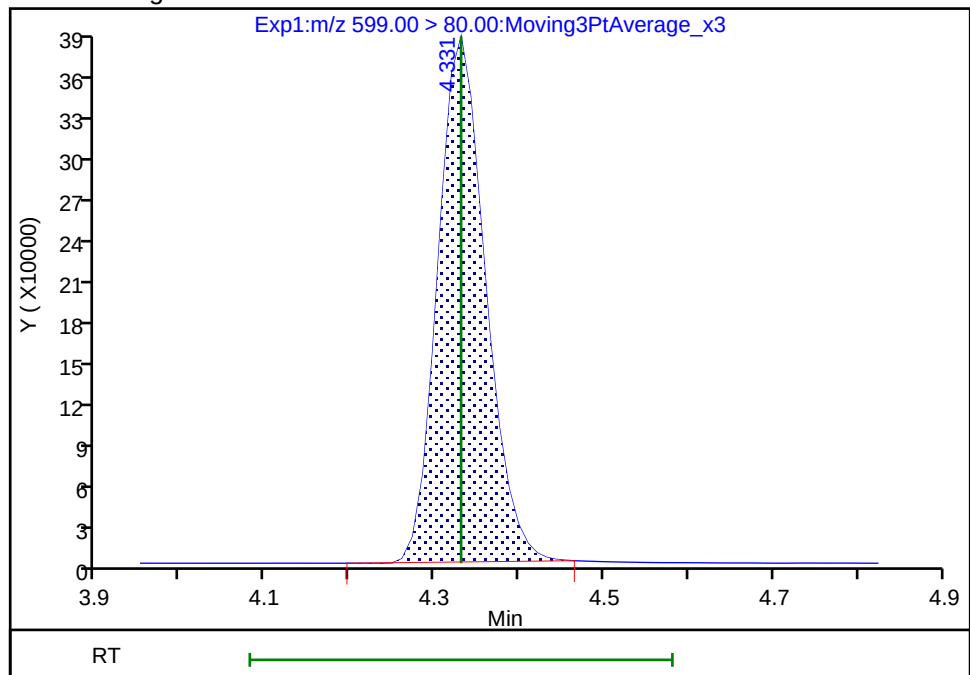
RT: 4.33
Area: 1514276
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 1496790
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

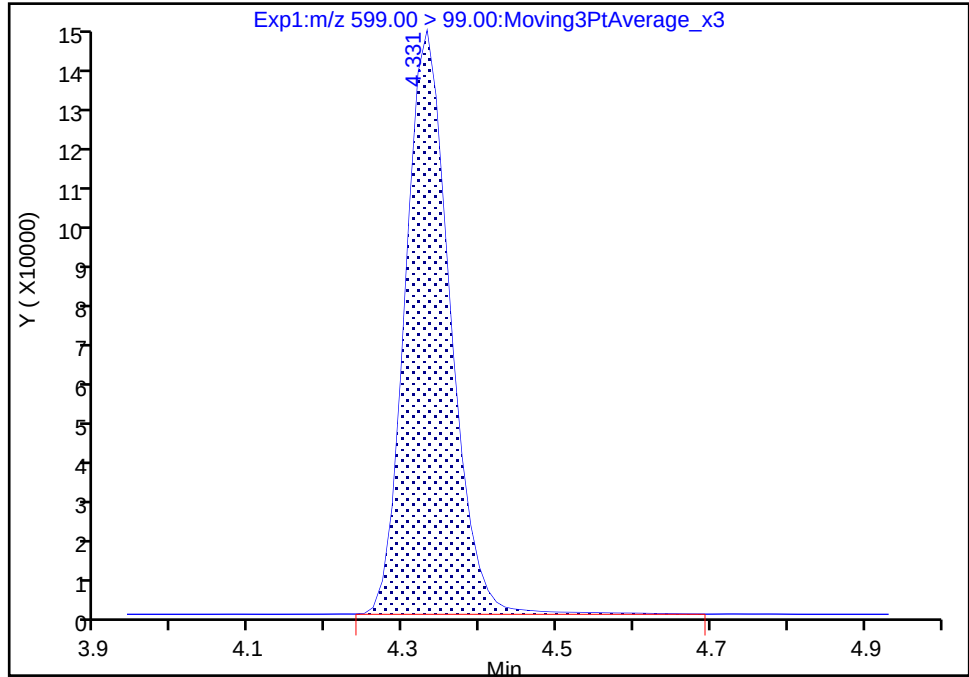
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

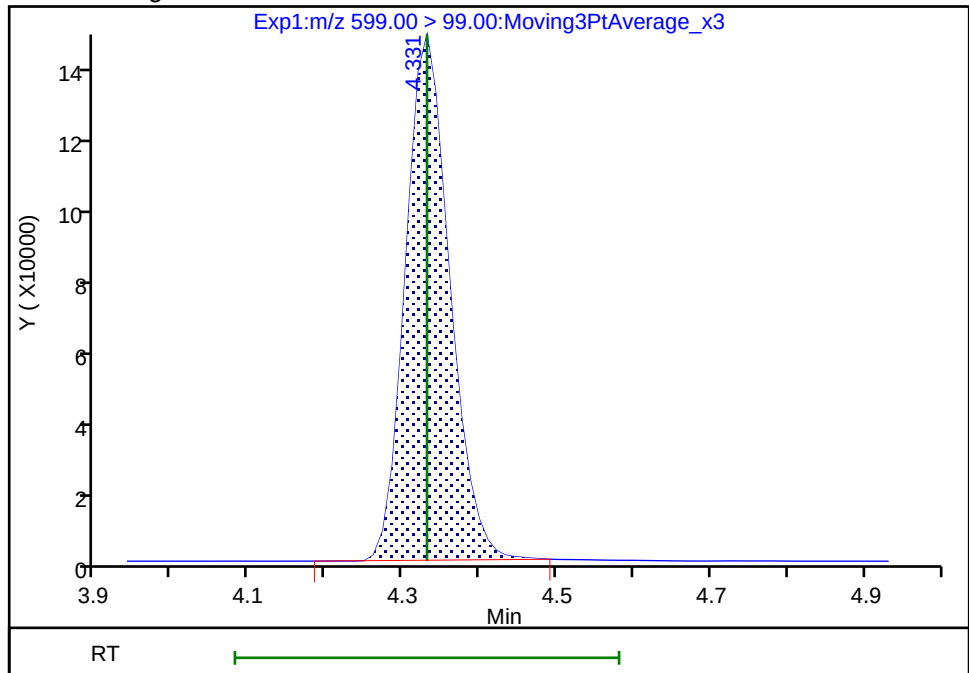
RT: 4.33
Area: 570570
Amount: 2.351873
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 562866
Amount: 2.350920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

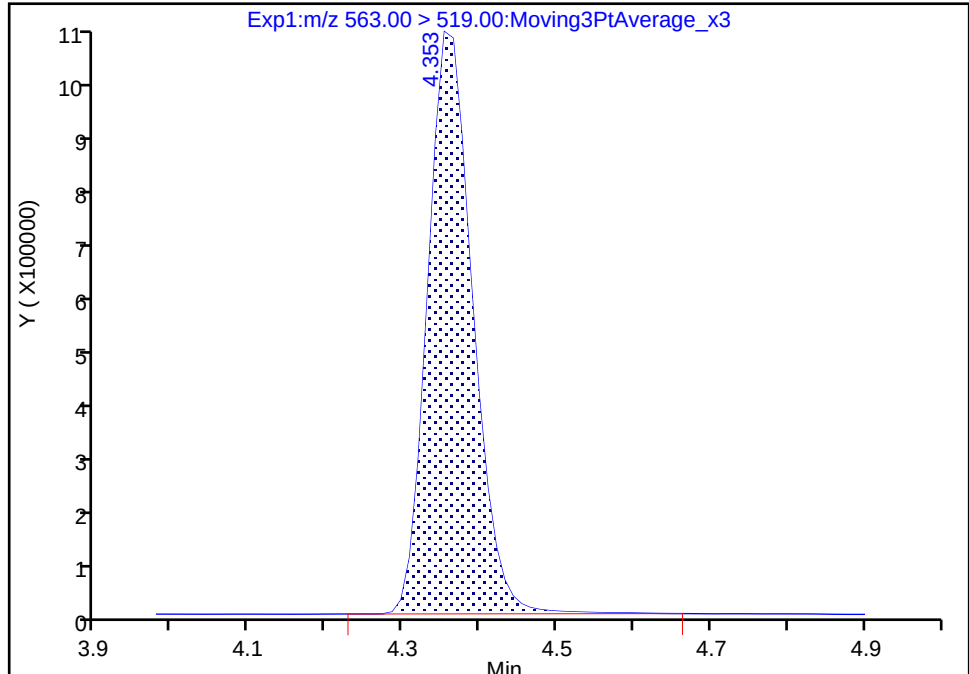
Data File:	\\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d		
Injection Date:	18-Nov-2022 15:02:36	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	6 Worklist Smp#: 9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

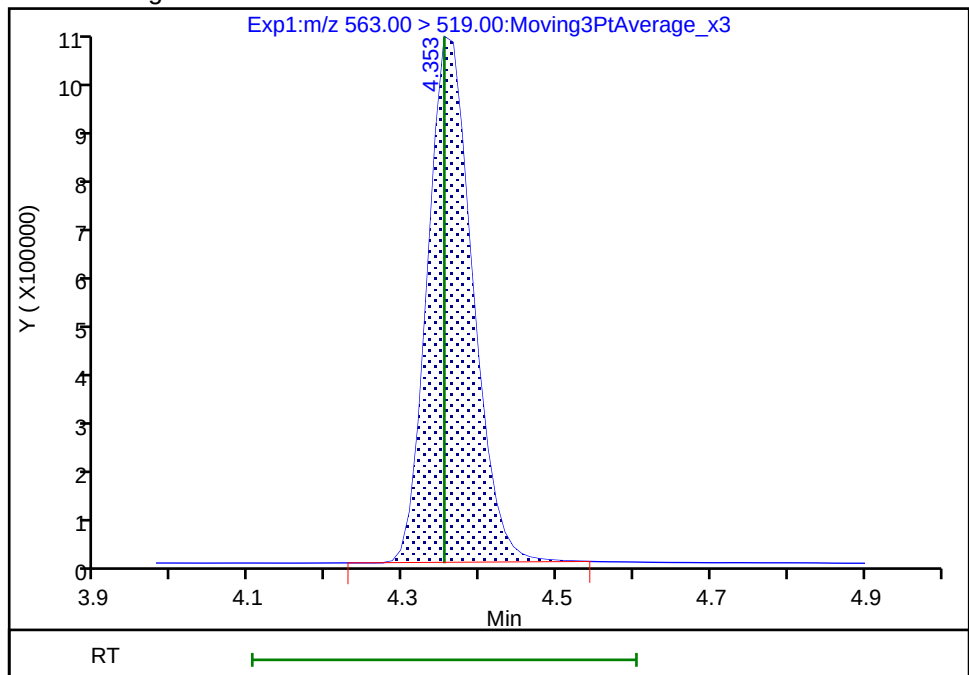
RT: 4.35
Area: 4342724
Amount: 2.330777
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 4311823
Amount: 2.366739
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

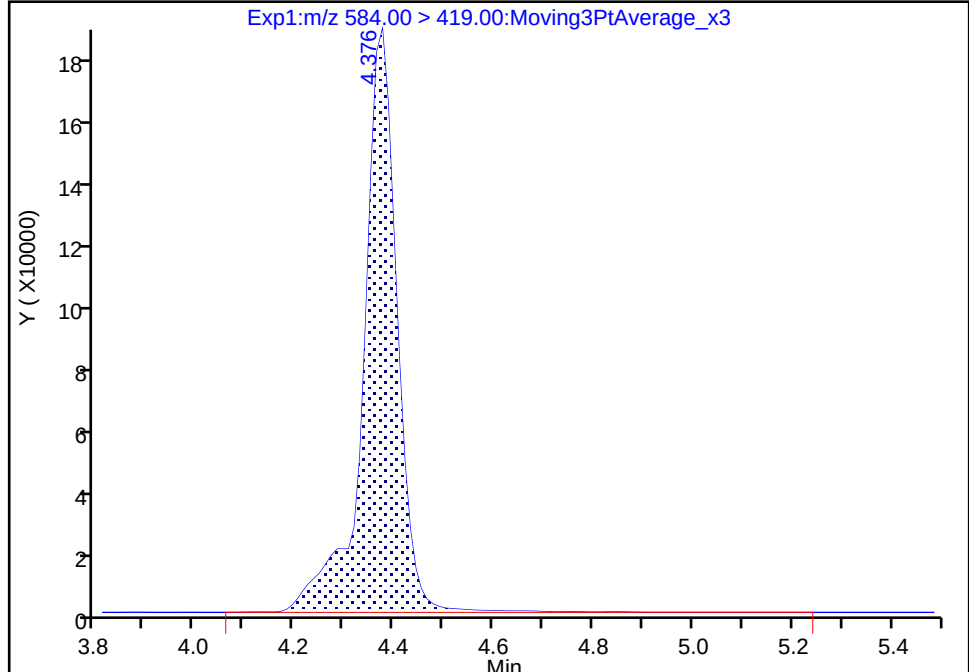
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

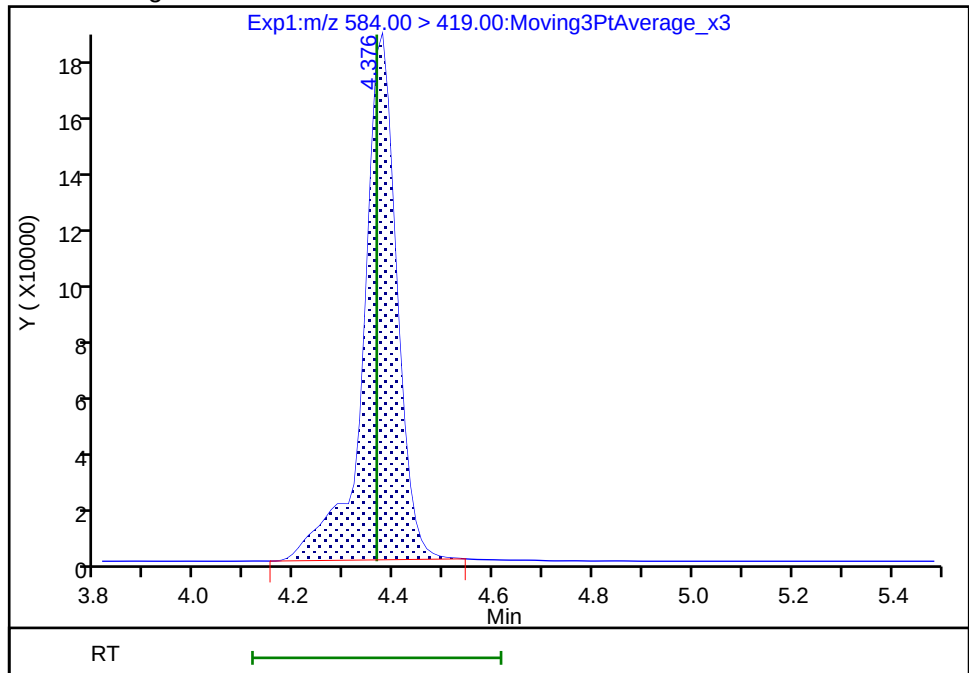
RT: 4.38
Area: 865426
Amount: 2.394972
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 848987
Amount: 2.386775
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:17:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

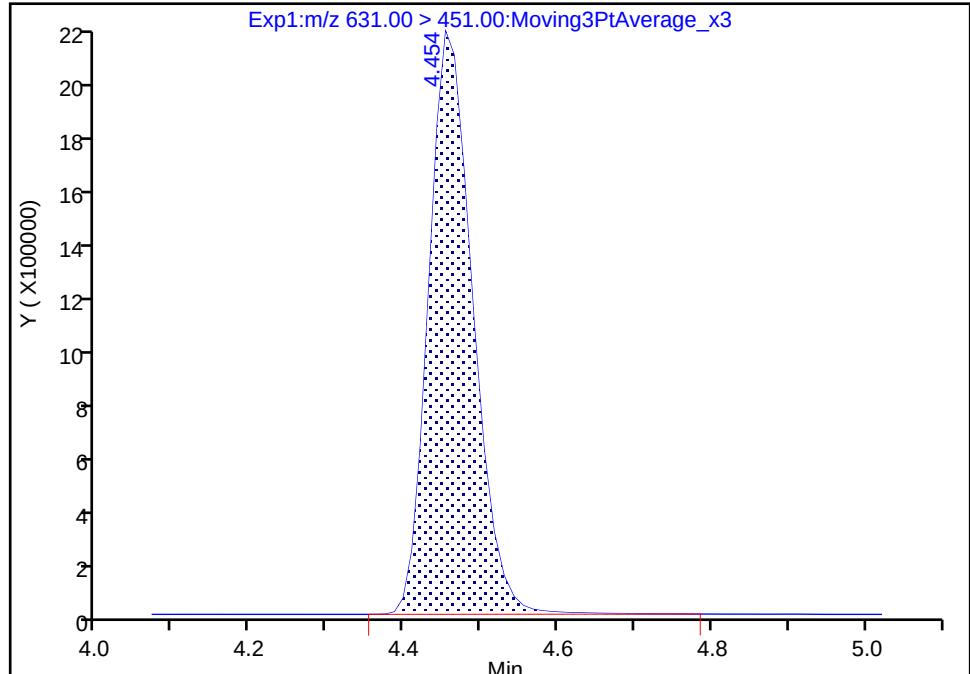
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

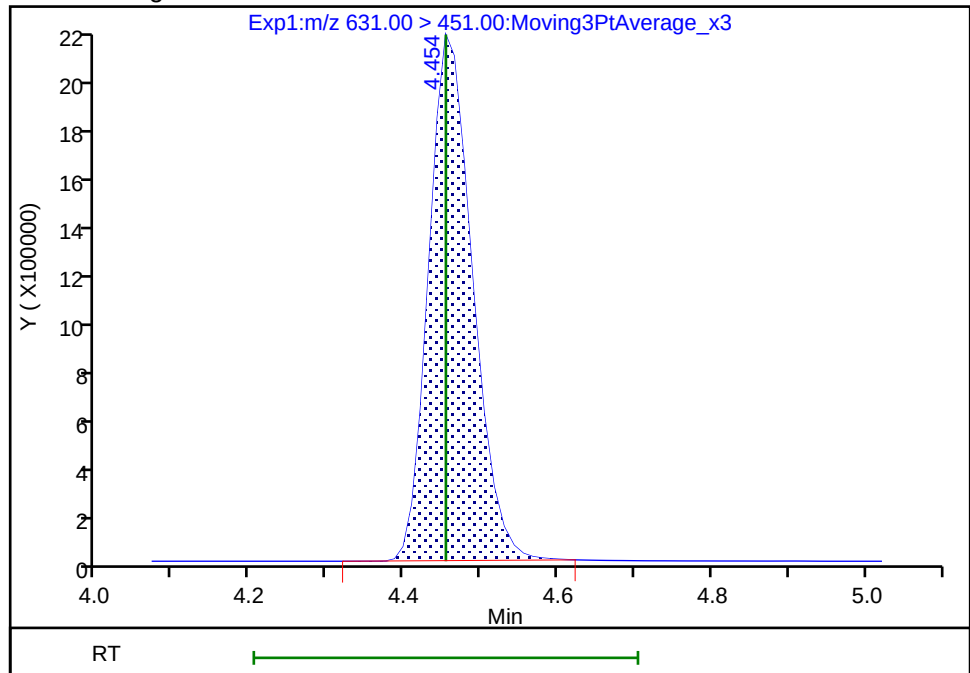
RT: 4.45
Area: 8707195
Amount: 2.232773
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 8644779
Amount: 2.287172
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

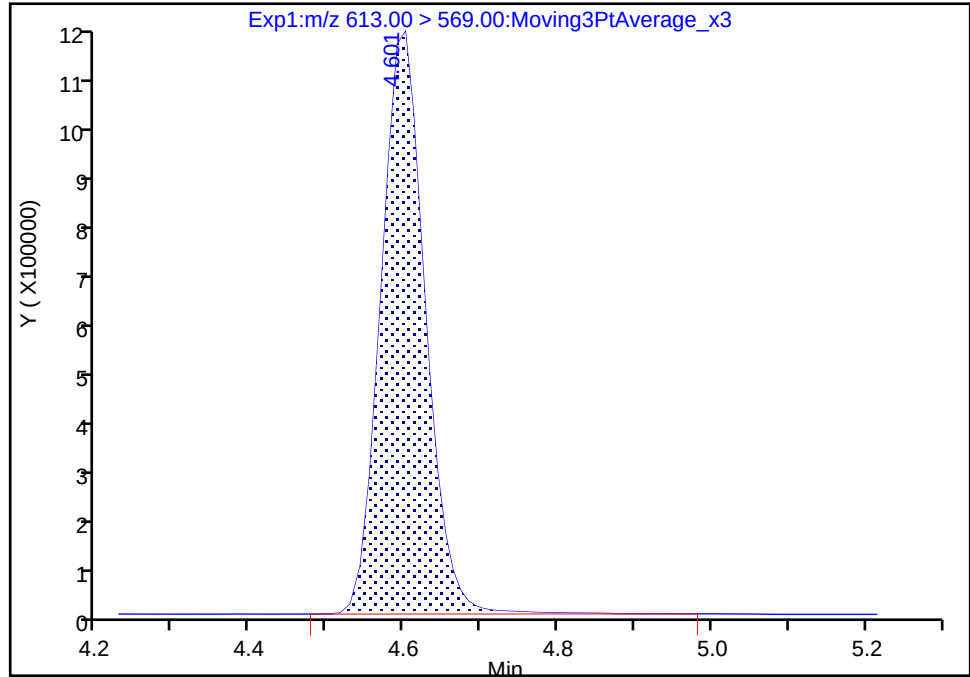
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

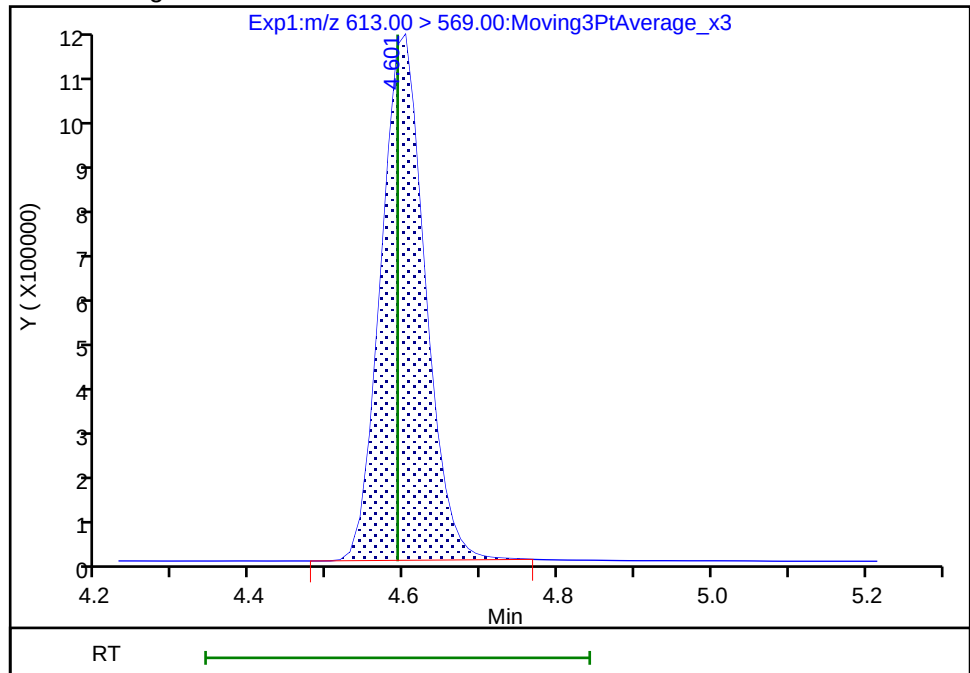
RT: 4.60
Area: 4561804
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 4520955
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

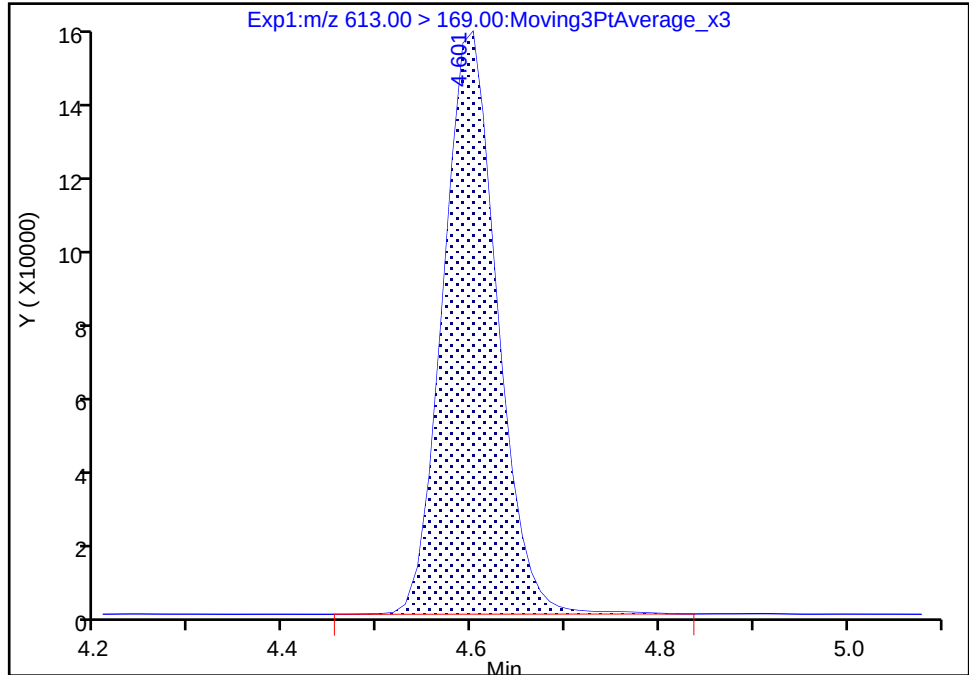
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

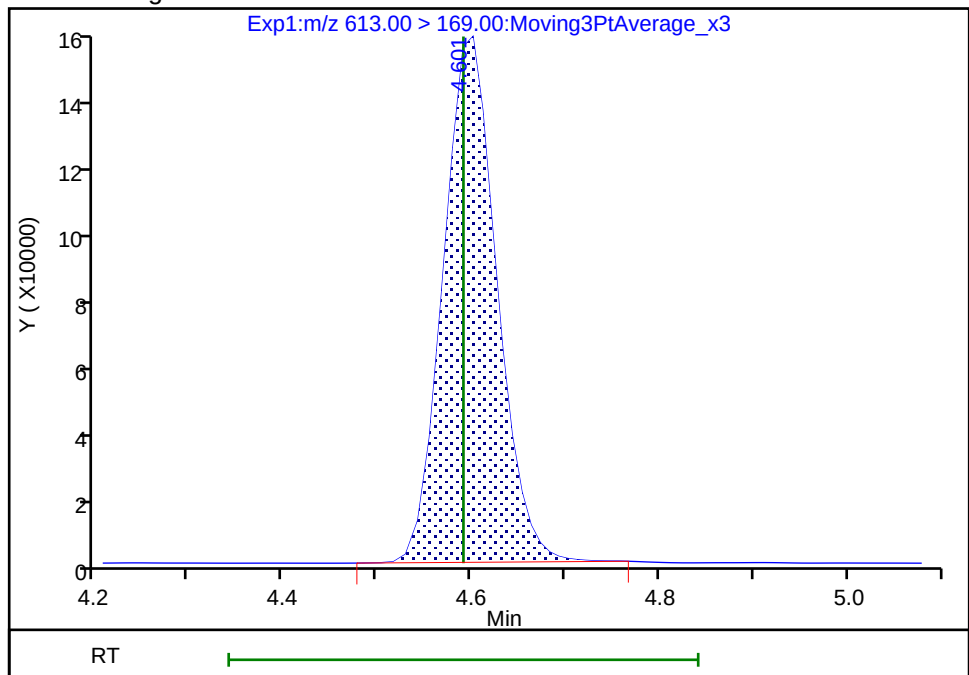
RT: 4.60
Area: 634336
Amount: 2.236540
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 628962
Amount: 2.275287
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

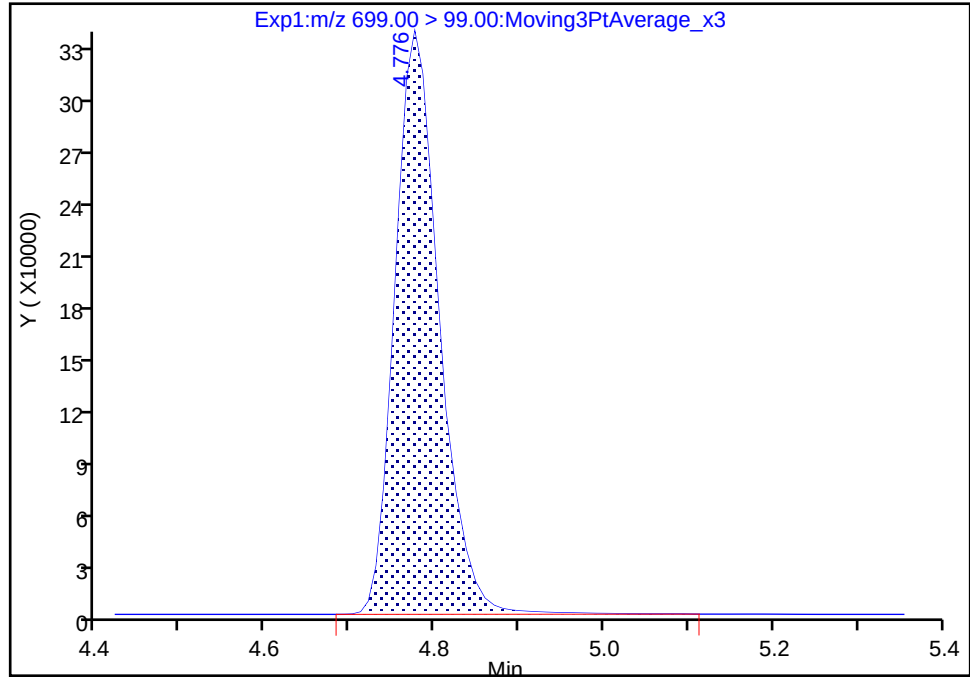
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

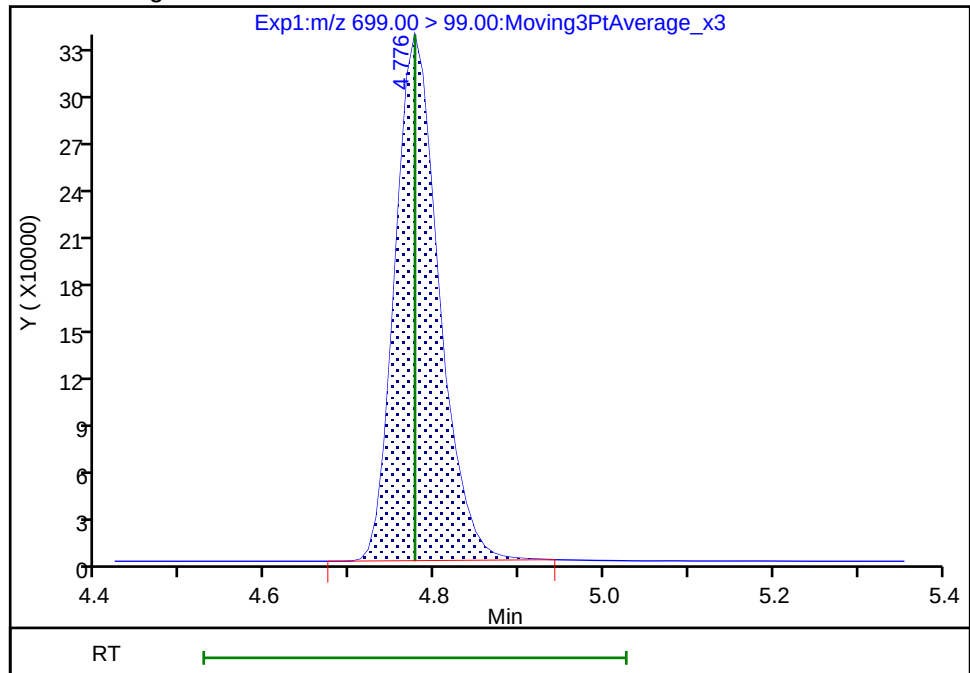
RT: 4.78
Area: 1228390
Amount: 2.299098
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1217795
Amount: 2.338289
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

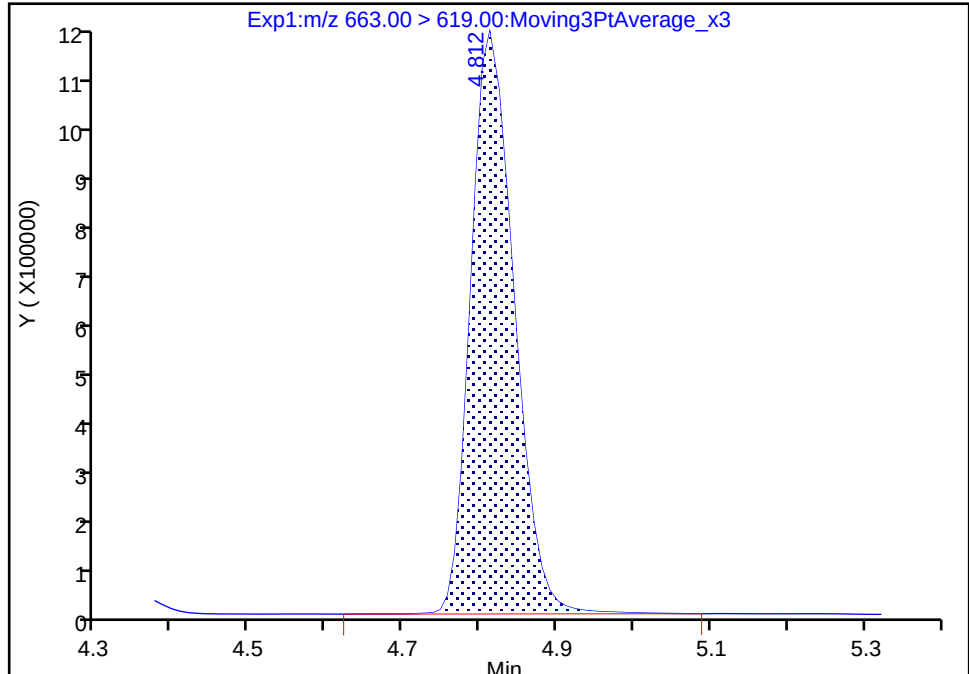
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

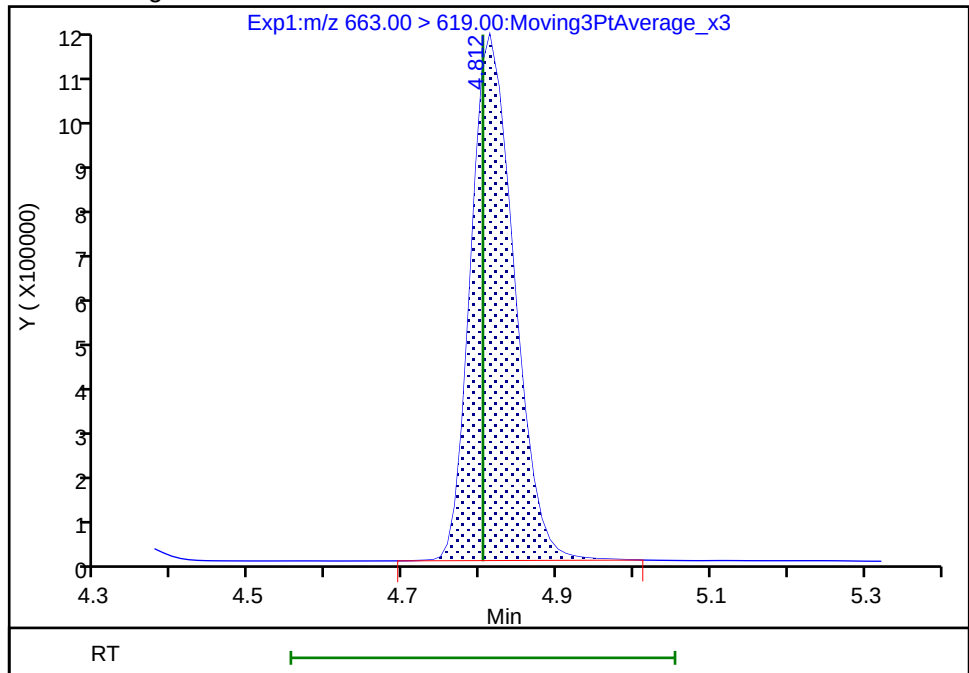
RT: 4.81
Area: 4593419
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4574880
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

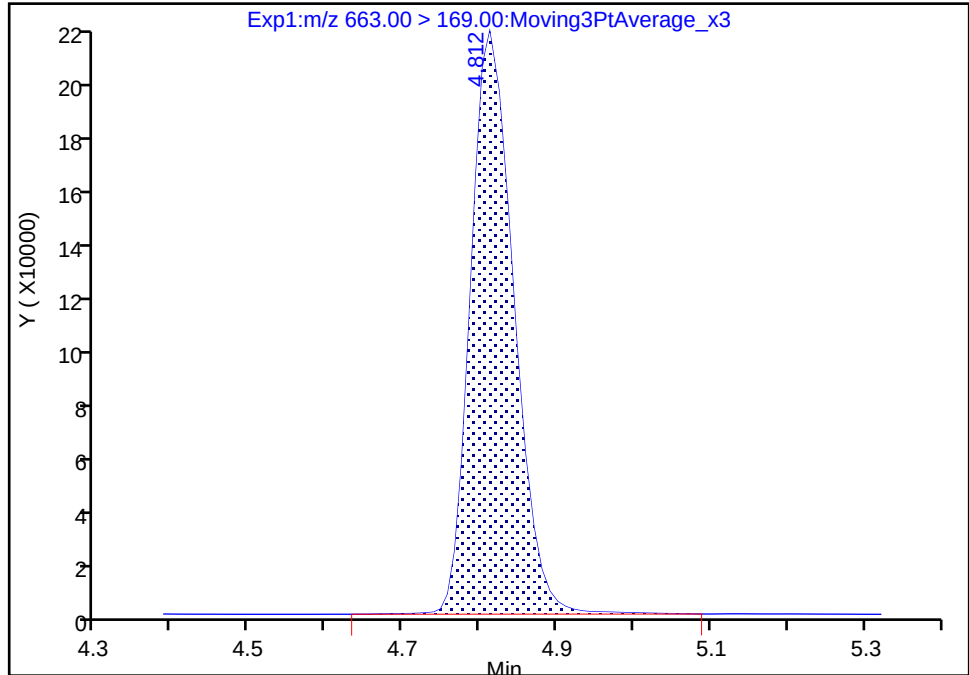
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

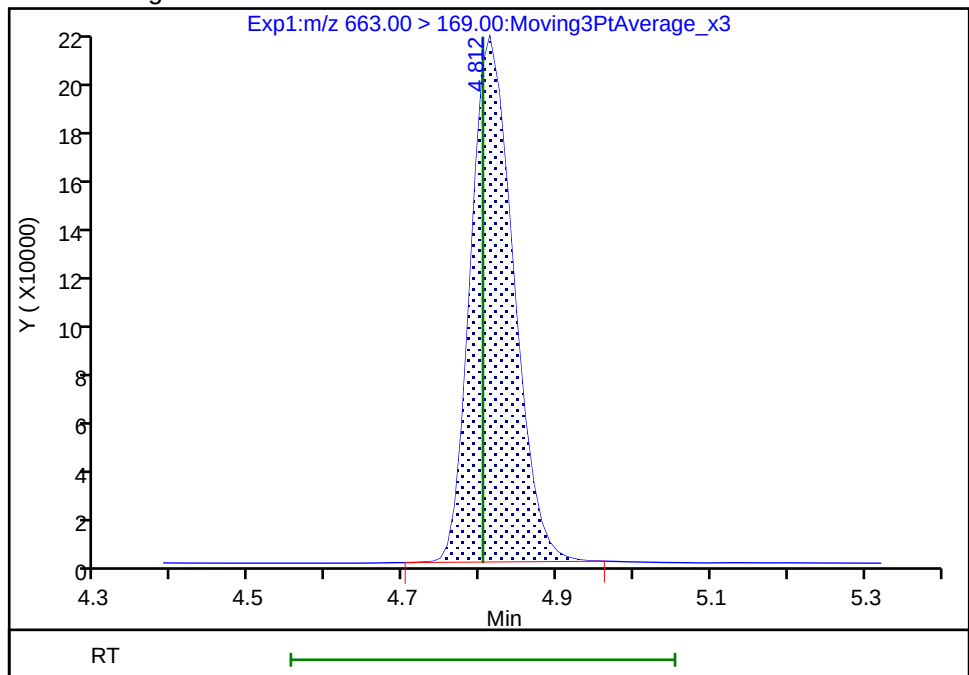
RT: 4.81
Area: 851410
Amount: 2.351993
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 841148
Amount: 2.407485
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

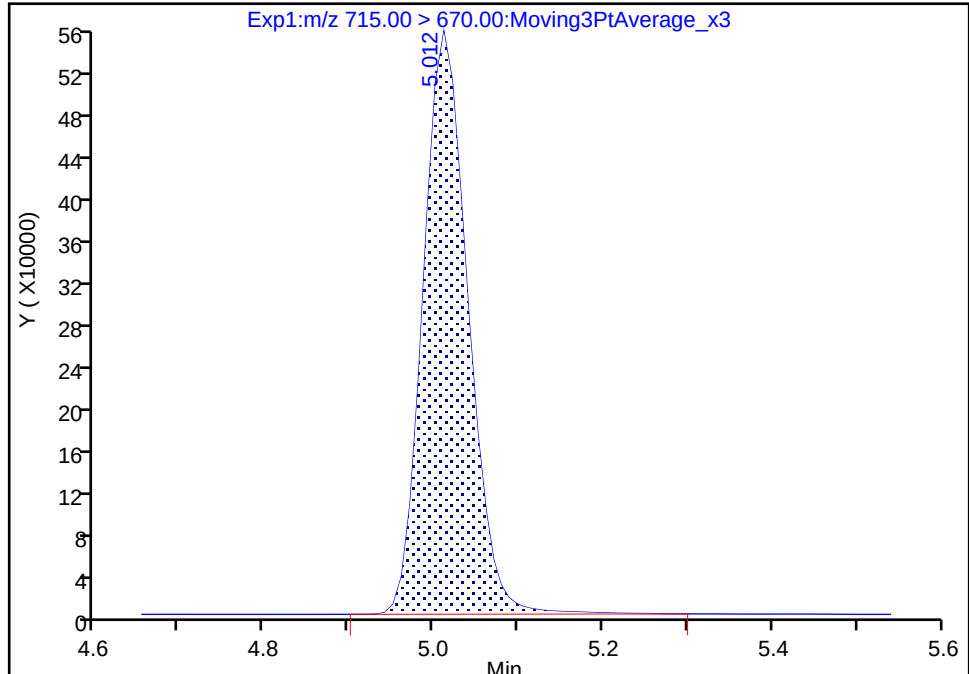
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

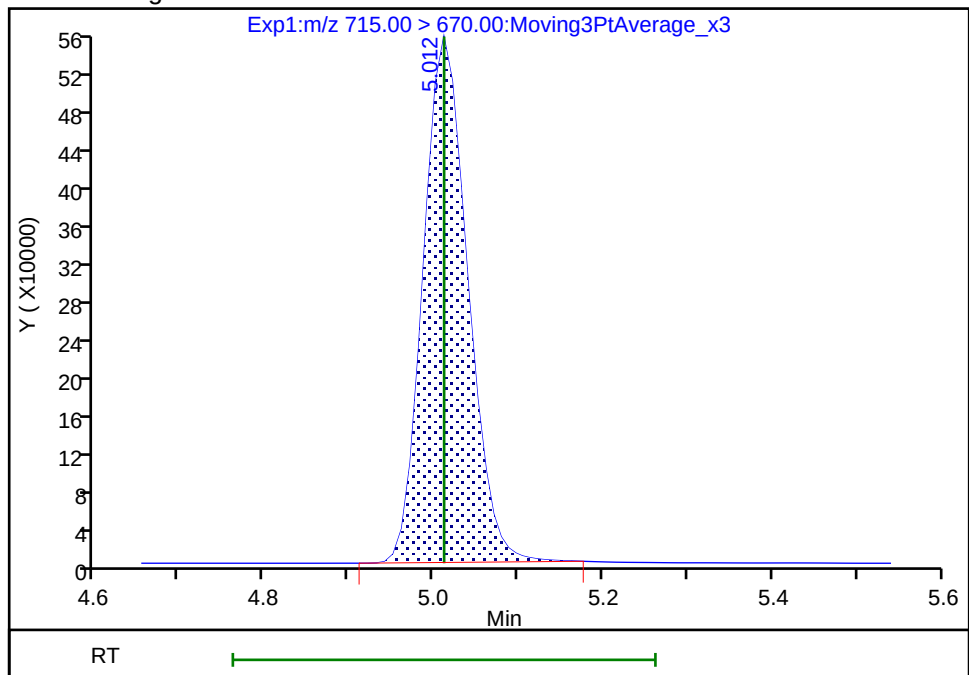
RT: 5.01
Area: 2033072
Amount: 1.303301
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2014799
Amount: 1.286087
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

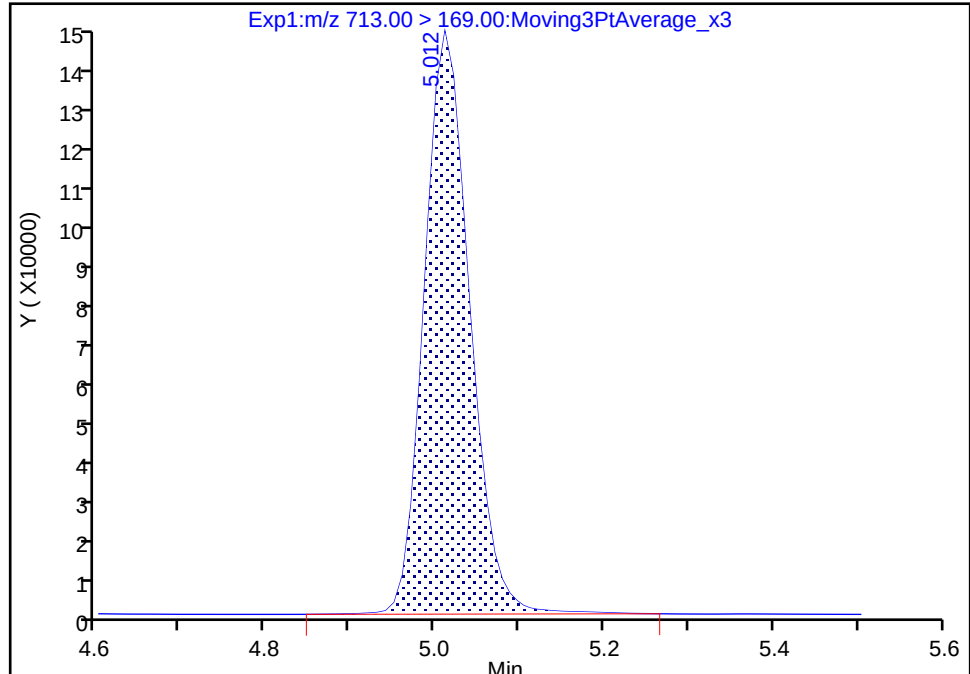
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

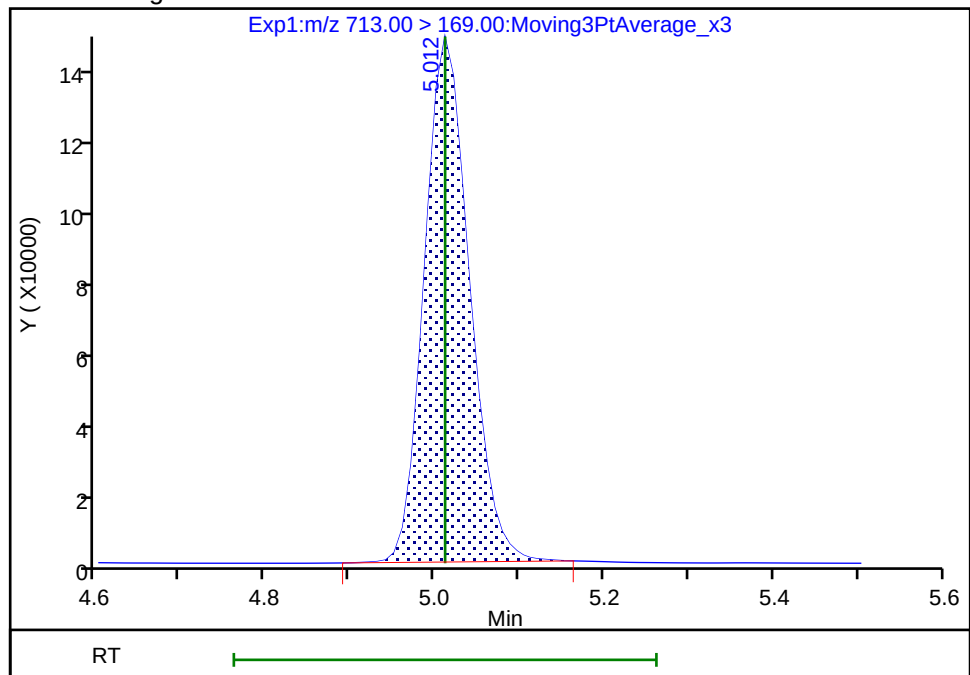
RT: 5.01
Area: 525519
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 519386
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

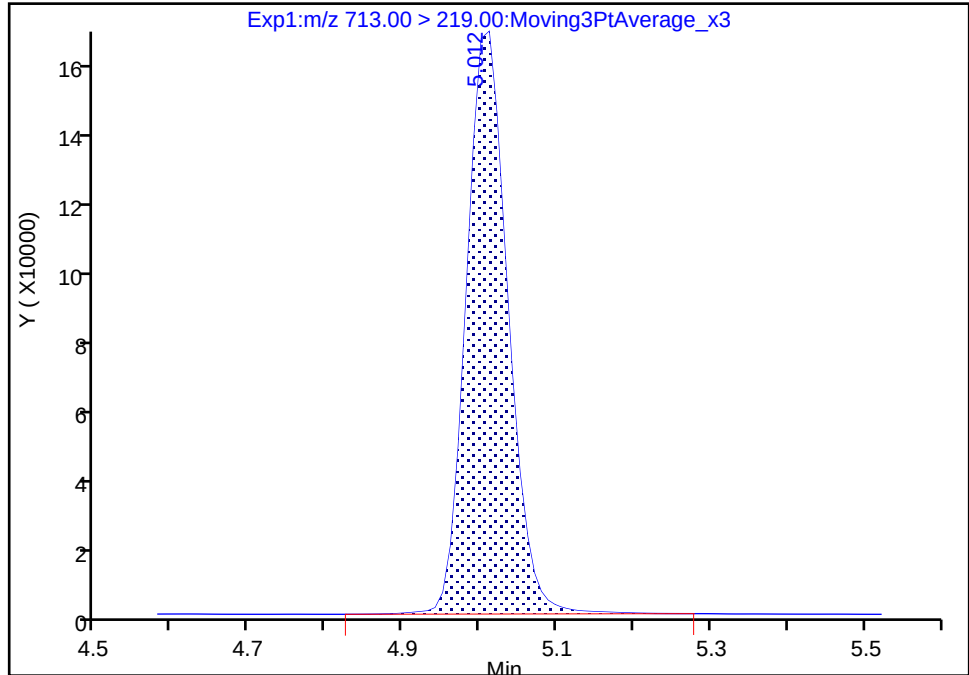
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

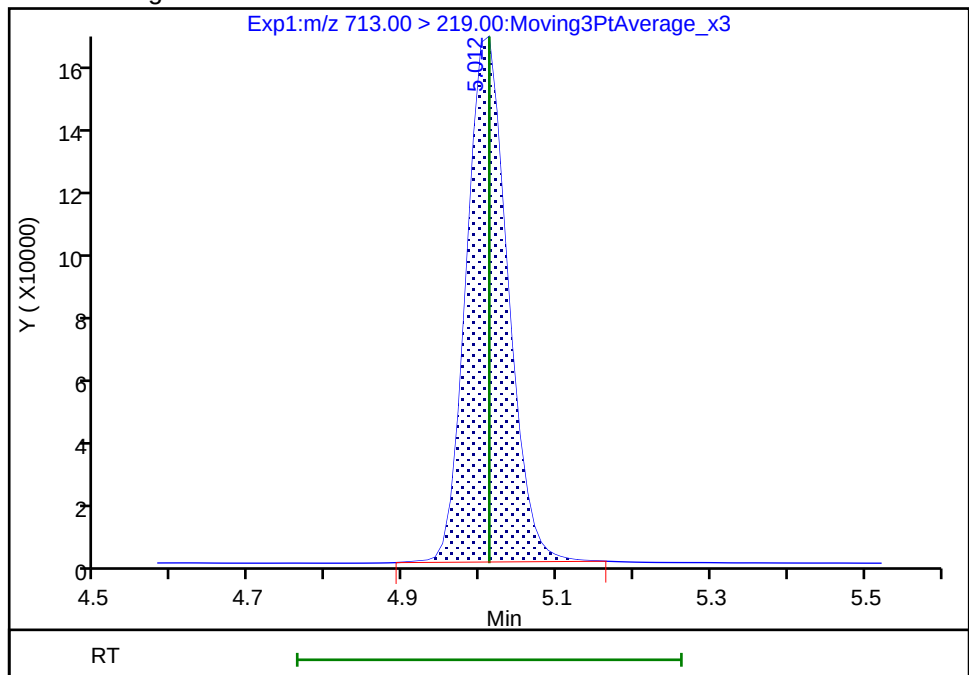
RT: 5.01
Area: 616529
Amount: 2.325898
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 610374
Amount: 2.353740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

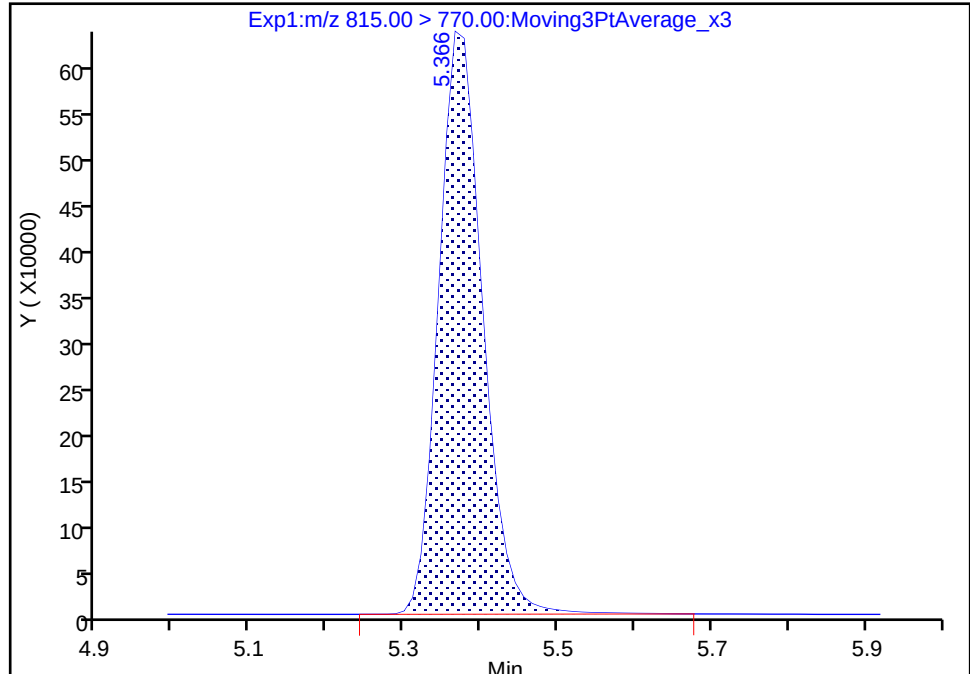
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

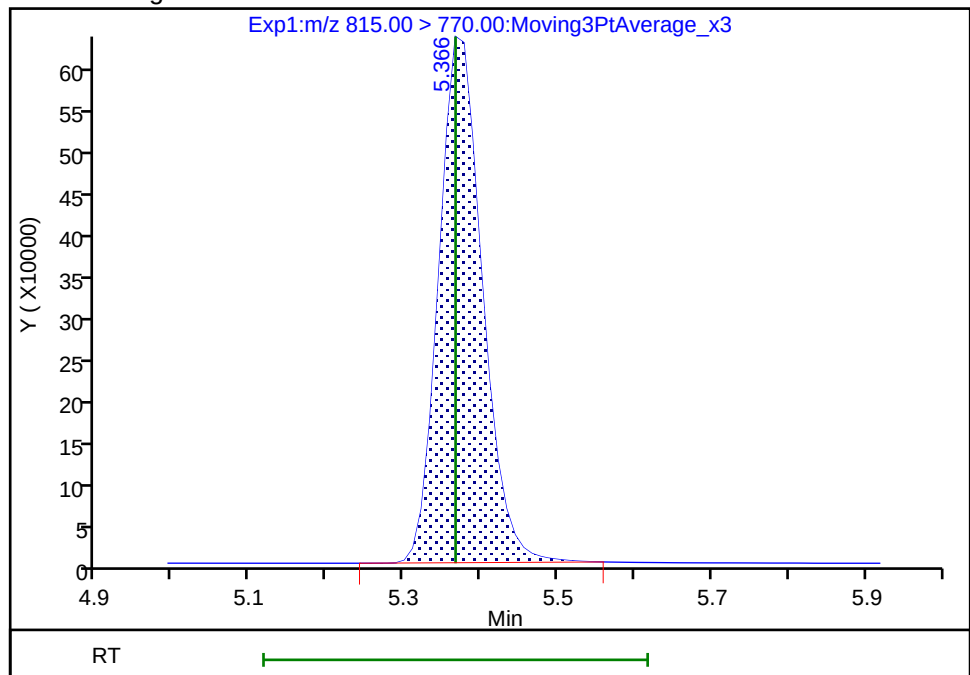
RT: 5.37
Area: 2515726
Amount: 1.303866
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2500657
Amount: 1.291152
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

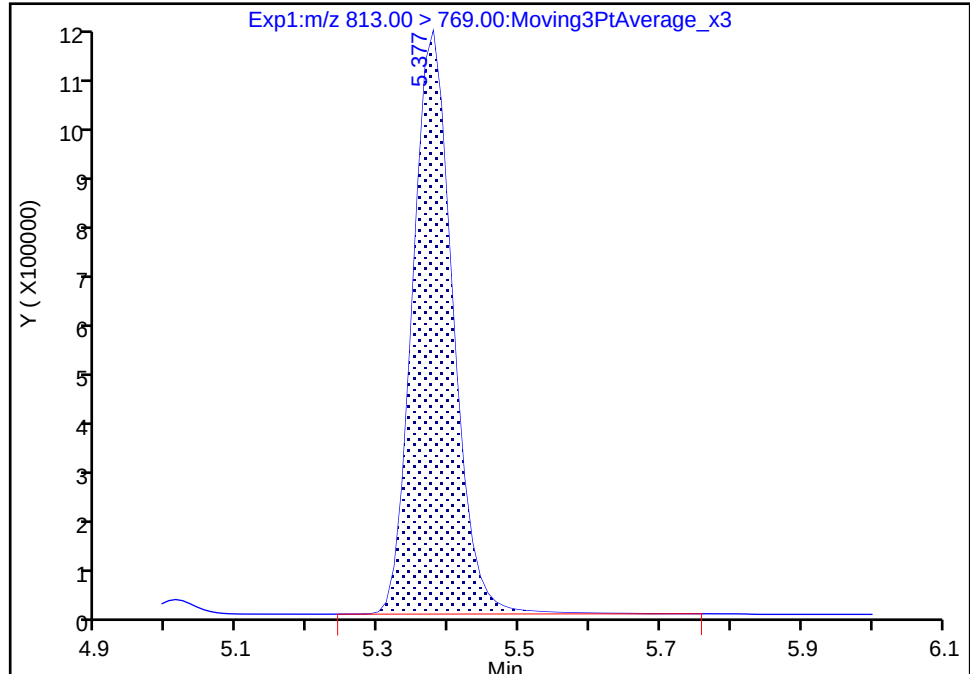
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

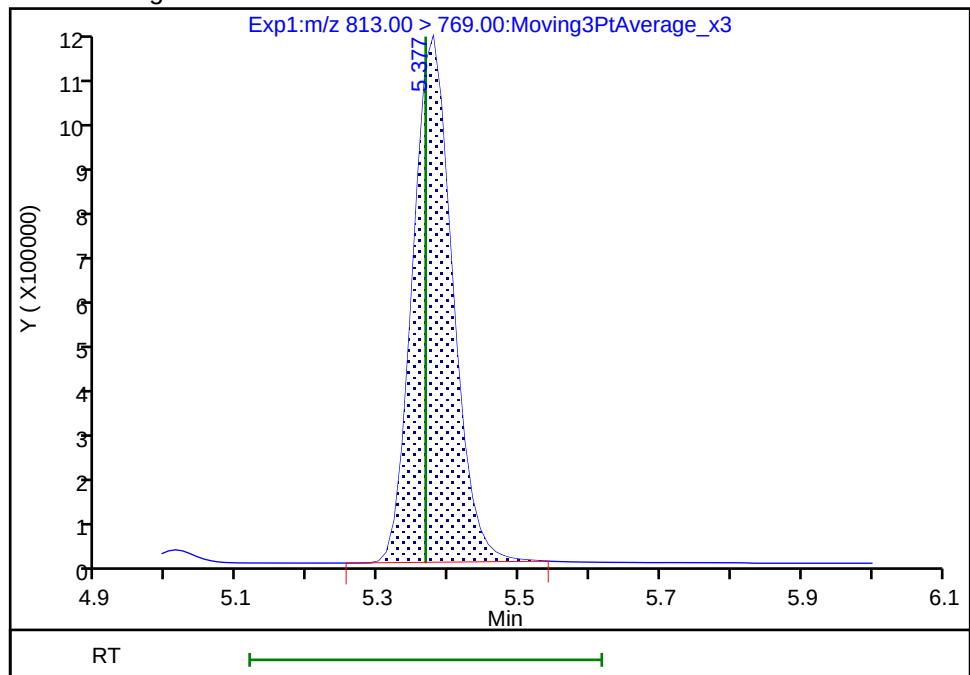
RT: 5.38
Area: 4654754
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 4609177
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

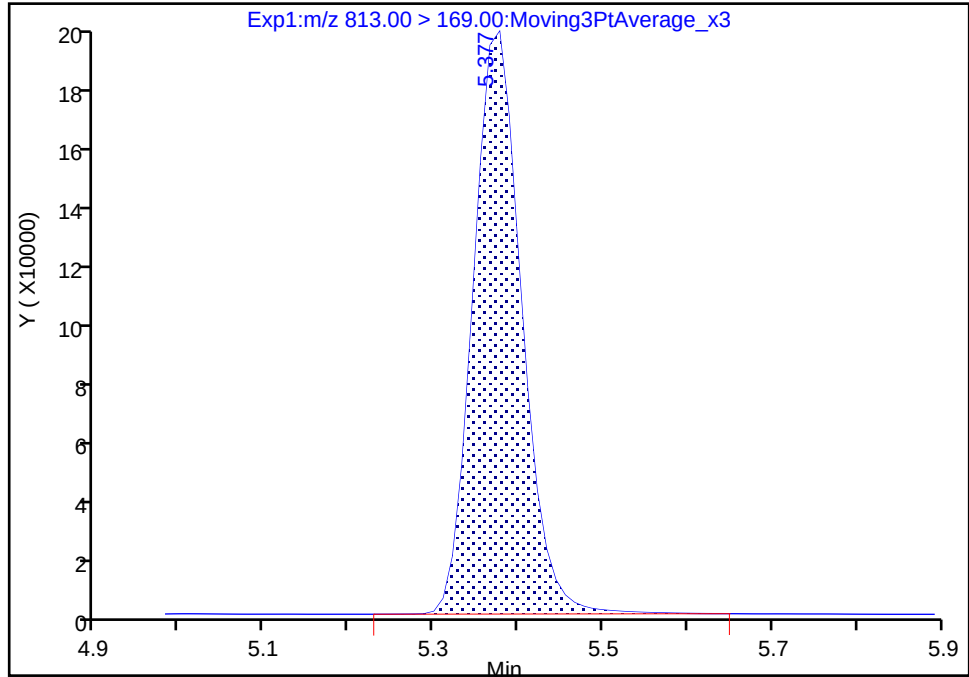
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

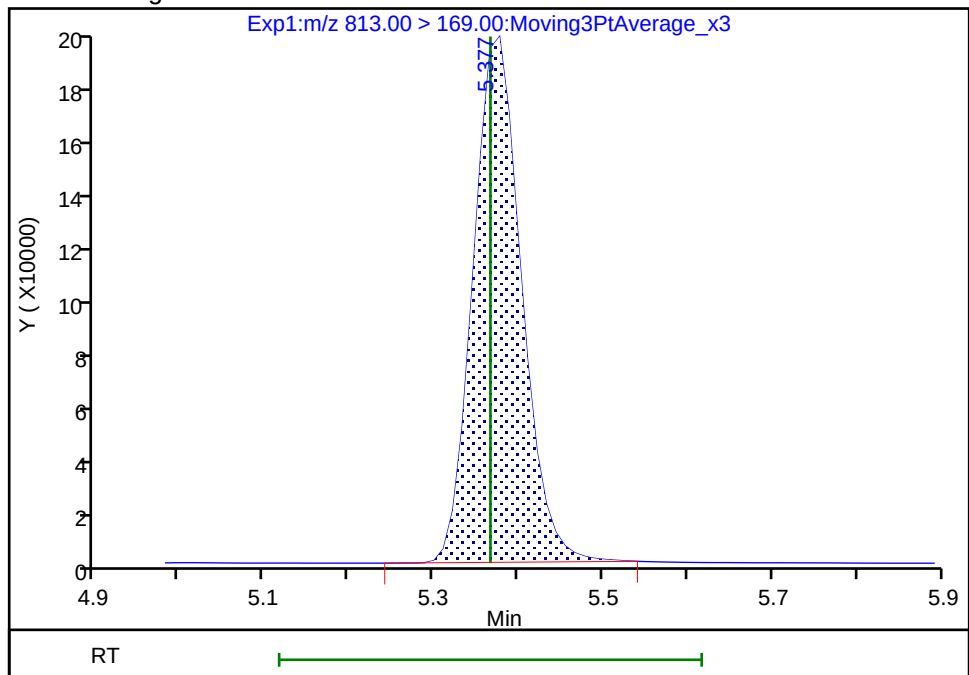
RT: 5.38
Area: 773083
Amount: 2.502473
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 767191
Amount: 2.488597
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:18:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

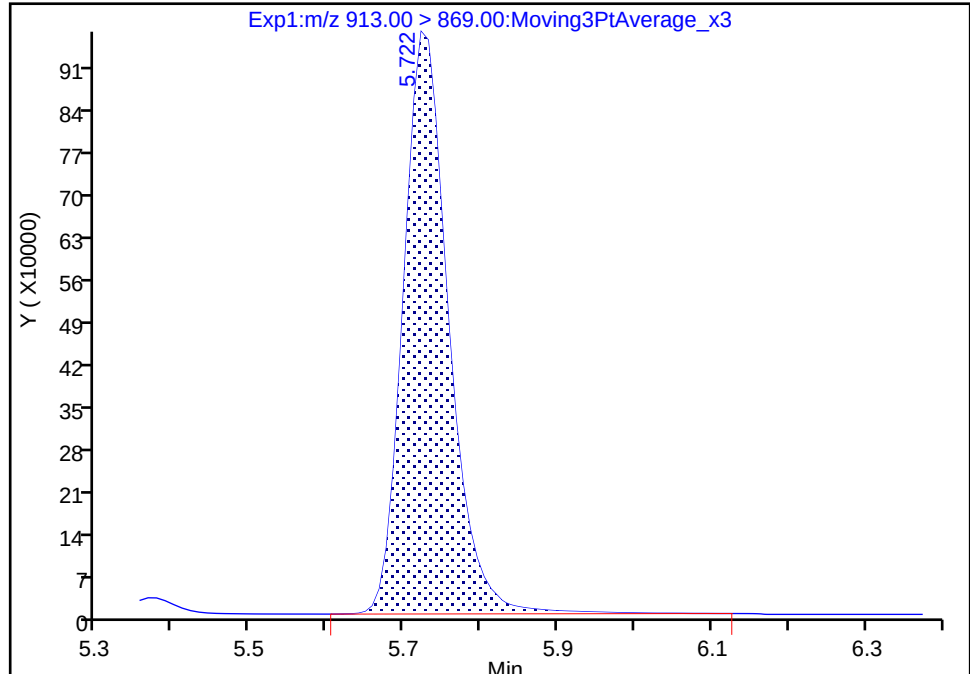
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d
Injection Date: 18-Nov-2022 15:02:36 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

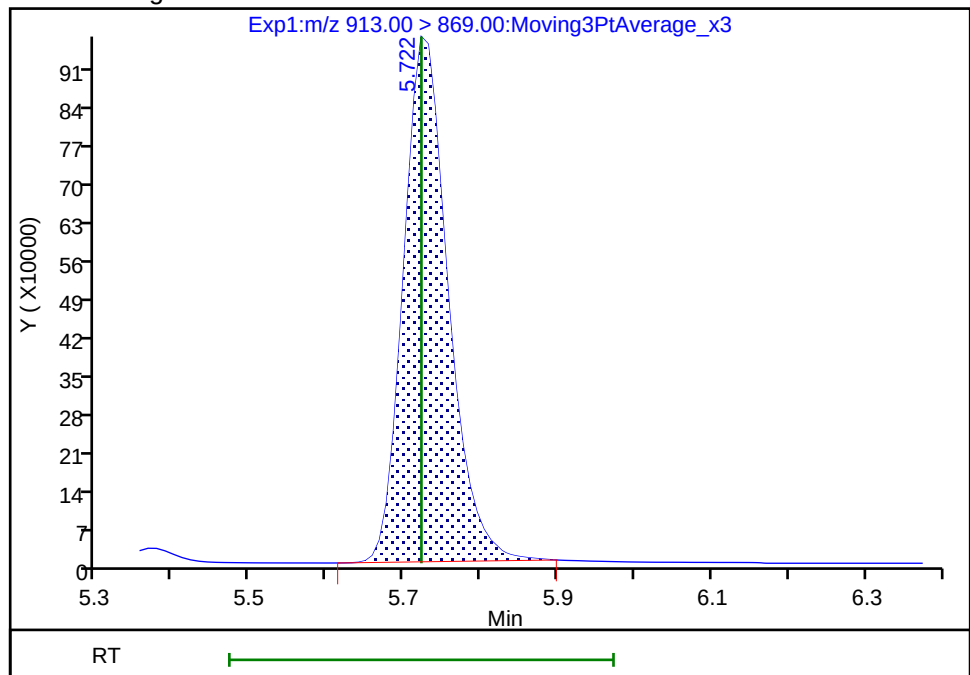
RT: 5.72
Area: 3948972
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 3885994
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL09.d

Injection Date: 18-Nov-2022 15:02:36

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

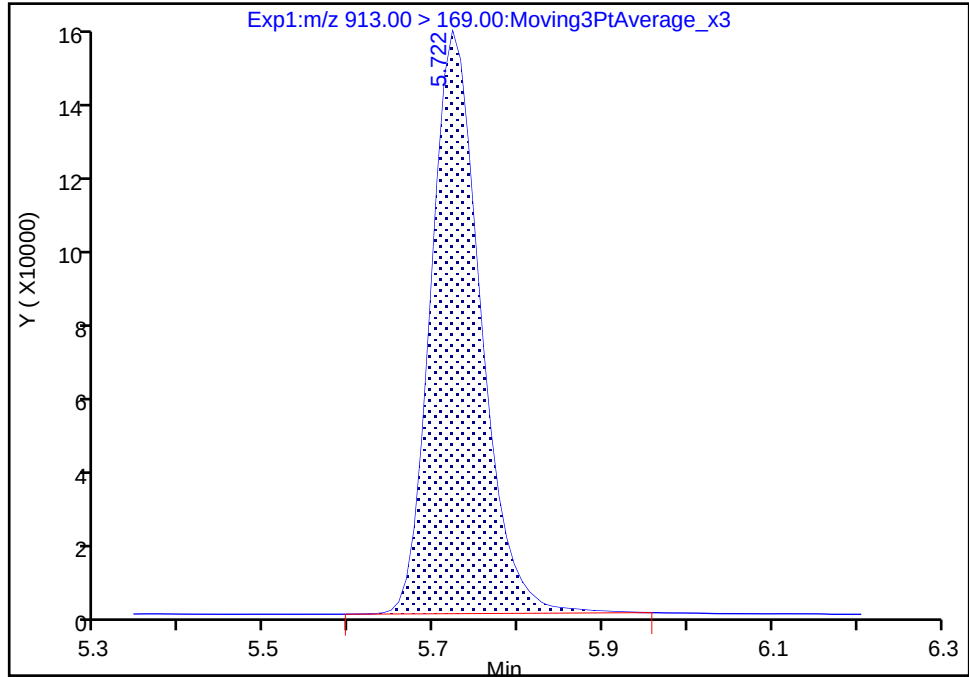
EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

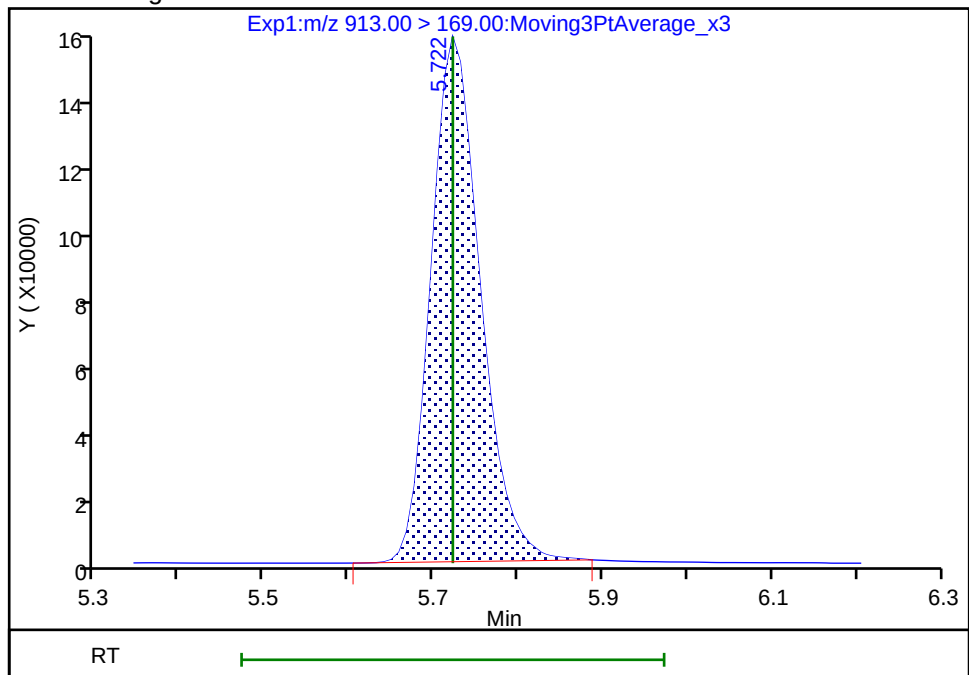
RT: 5.72
Area: 641202
Amount: 2.362565
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 634754
Amount: 2.358568
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:19:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Nov-2022 15:10:45 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0053396-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 15:39:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1602

First Level Reviewer: Z1IP

Date: 18-Nov-2022 15:39:01

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 2.076 2.076 0.0 0.602 2467565 1.31 105 10900

2 Perfluorobutanoic acid

212.90 > 169.00 2.076 2.076 0.0 1.000 18287579 8.98 89.8 1622 M

D 3 13C5 PFPeA

267.90 > 223.00 2.387 2.387 0.0 0.692 1859782 1.30 104 3825

4 Perfluoropentanoic acid

262.90 > 219.00 2.387 2.387 0.0 1.000 14659532 9.04 90.4 369

D 47 13C3 PFBS

301.90 > 80.00 2.400 2.400 0.0 0.696 1920108 1.24 106 306030

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.400 2.400 0.0 1.000 15764131 8.34 Target=2.14 94.4 6290 M

298.90 > 99.00 2.400 2.400 0.0 1.000 7462883 2.11(1.07-3.21) 94.4 3673 M

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.689 2.689 0.0 1.000 3793564 8.55 91.5 7517

D 60 M2-4:2 FTS

329.00 > 81.00 2.689 2.689 0.0 0.780 168186 1.23 105 209

D 7 13C2 PFHxA

315.00 > 270.00 2.725 2.725 0.0 0.790 1905245 1.27 102 3368 M

6 Perfluorohexanoic acid

313.00 > 269.00 2.725 2.725 0.0 1.000 14928997 8.99 Target=13.44 89.9 1947 M

313.00 > 119.00 2.725 2.725 0.0 1.000 1139463 13.10(6.72-20.15) 89.9 1377 M

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.737 2.737 0.0 0.887 14151584 8.84 Target=2.98 94.3 4481 M

349.00 > 99.00 2.737 2.737 0.0 0.887 4699585 3.01(1.49-4.47) 94.3 3456 M

67 Perfluoro(2-propoxypropanoic) ac

285.00 > 169.00 2.835 2.835 0.0 1.000 2790710 9.46 94.6 3137 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
287.00 > 169.00	2.835	2.835	0.0	0.822	349067	1.32		106	2058	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.088	3.088	0.0	0.896	1417084	1.25		106	3116	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	11438488	8.46	Target=3.57	92.9	1881	M
399.00 > 99.00	3.088	3.088	0.0	1.000	3266390		3.50(1.78-5.35)	92.9	1771	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	1969787	1.28		102	3184	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.099	-0.011	1.000	15384783	8.97	Target=3.93	89.7	1713	M
363.00 > 169.00	3.088	3.099	-0.011	1.000	4138402		3.72(1.96-5.89)	89.7	2990	M
77 DONA										M
377.00 > 251.00	3.132	3.132	0.0	0.832	34921387	7.63	Target=3.08	81.0	2972	M
377.00 > 85.00	3.132	3.132	0.0	0.832	12293064		2.84(1.54-4.62)	81.0	2852	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	221871	1.17		98.5	664	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.439	0.0	1.000	3743844	9.47		99.9	1951	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.430	3.439	-0.009	0.911	10171074	8.76	Target=5.16	92.0	3706	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	1989808		5.11(2.58-7.74)	92.0	4062	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2203793	1.27		102	5888	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2091291	1.25			3642	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.448	0.0	1.000	16977289	9.01	Target=2.82	90.1	978	M
413.00 > 169.00	3.448	3.448	0.0	1.000	6260421		2.71(1.41-4.23)	90.1	2636	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	993714	1.29		108	883	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	8534676	8.44	Target=5.01	90.9	926	M
499.00 > 99.00	3.764	3.764	0.0	1.000	1770034		4.82(2.50-7.51)	90.9	964	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	16342622	9.36	Target=8.49	93.6	1971	M
463.00 > 169.00	3.783	3.783	0.0	1.000	1938179		8.43(4.25-12.74)	93.6	2313	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2102974	1.25		100.0	6336	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	19485090	8.40		90.1	3617	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.051	4.050	0.001	1.076	6831873	8.95	Target=2.60	93.2	2750	M
549.00 > 99.00	4.051	4.050	0.001	1.076	2652769		2.58(1.30-3.90)	93.2	3358	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2229691	1.30		104	3838	

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	4.081	4.081	0.0	1.000	16688874	8.63	Target=10.03	86.3	2787	M
513.00 > 169.00	4.081	4.081	0.0	1.000	1764763		9.46(5.02-15.05)	86.3	3491	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	277266	1.20		99.8	889	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	3431863	9.17		95.7	2819	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	14828965	9.27		92.7	11896	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1914897	1.36		109	2590	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	478582	1.37		110	204	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.228	0.0	1.000	3297027	10.0		100.0	1849	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	5548668	9.21	Target=2.58	95.5	2308	M
599.00 > 99.00	4.320	4.331	-0.011	1.148	2036543		2.72(1.29-3.86)	95.5	2355	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.353	4.353	0.0	1.263	1967361	1.25		100	2095	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	14168517	8.93	Target=10.10	89.3	2525	M
563.00 > 169.00	4.353	4.353	0.0	1.000	1502685		9.43(5.05-15.15)	89.3	1563	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.365	0.0	1.000	2992748	9.39		93.9	1373	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	444955	1.29		104	611	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.454	0.0	1.183	28587798	7.99		84.8	2959	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	15612916	8.76	Target=7.41	87.6	840	M
613.00 > 169.00	4.591	4.591	0.0	1.000	2225311		7.02(3.70-11.11)	87.6	3131	M
D 36 13C2 PFDaA										M
615.00 > 570.00	4.591	4.591	0.0	1.332	2103698	1.32		105	3008	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	2140218	9.51		98.7	1929	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.767	4.776	-0.009	1.266	2258006	8.85	Target=0.51	91.5	2977	M
699.00 > 99.00	4.767	4.776	-0.009	1.266	4532176		0.50(0.25-0.76)	91.5	4479	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	14753486	8.65	Target=5.40	86.5	847	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	2874269		5.13(2.70-8.10)	86.5	2161	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	1.000	1813608	9.29	Target=0.90	92.9	1869	M
713.00 > 219.00	5.002	5.012	-0.010	1.000	2156307		0.84(0.45-1.35)	92.9	3154	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.002	5.012	-0.010	1.451	1782548	1.29		103	2048	M

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

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										M
813.00 > 769.00	5.366	5.367	-0.001	1.000	16164958	10.0	Target=5.85	100	978	M
813.00 > 169.00	5.366	5.367	-0.001	1.000	2805404		5.76(2.93-8.78)	100	2198	M
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.366	5.367	-0.001	1.557	2191999	1.28		103	2301	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	13617092	9.43	Target=6.30	94.3	603	M
913.00 > 169.00	5.713	5.722	-0.009	1.065	2220967		6.13(3.15-9.46)	94.3	888	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00013

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d

Injection Date: 18-Nov-2022 15:10:45

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

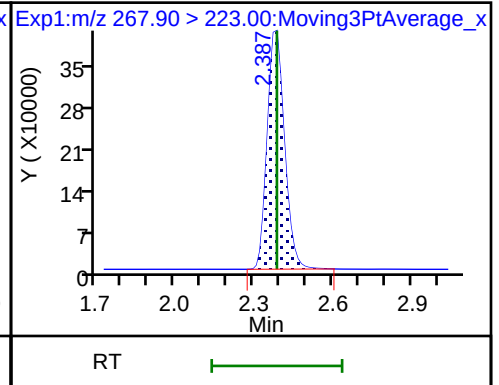
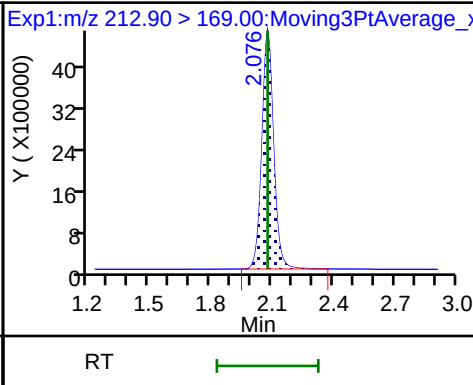
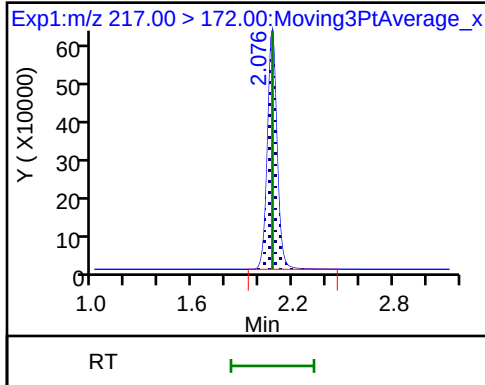
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

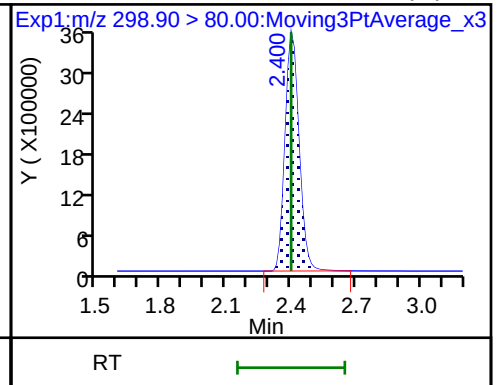
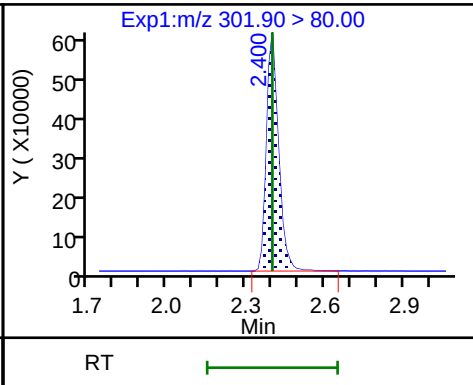
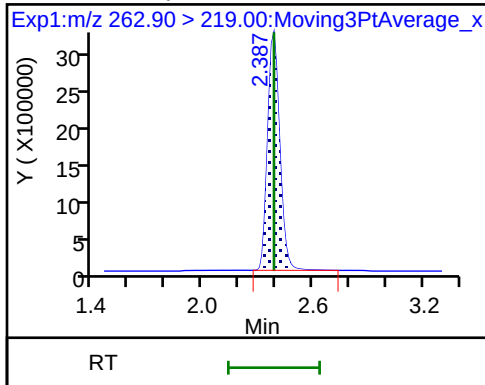
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

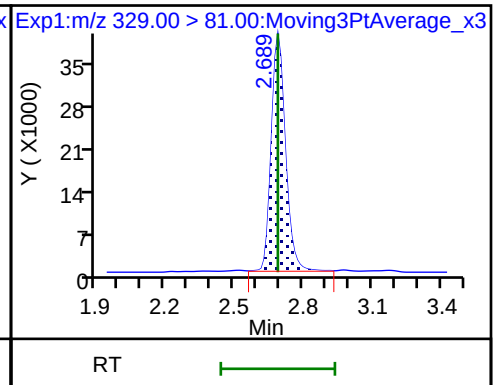
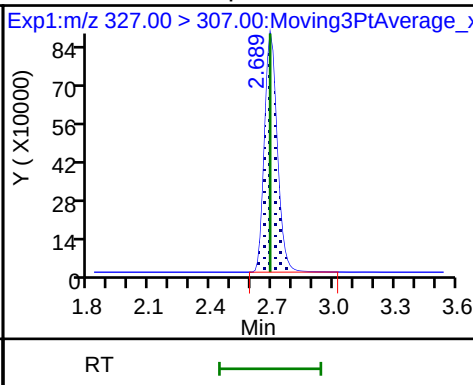
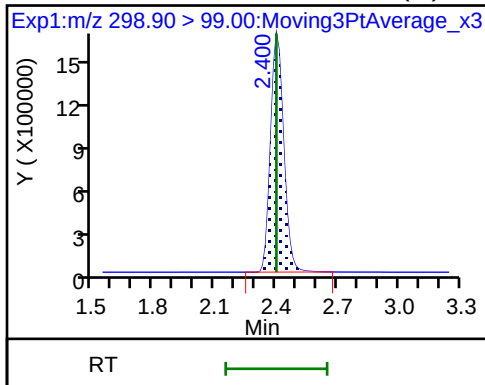
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

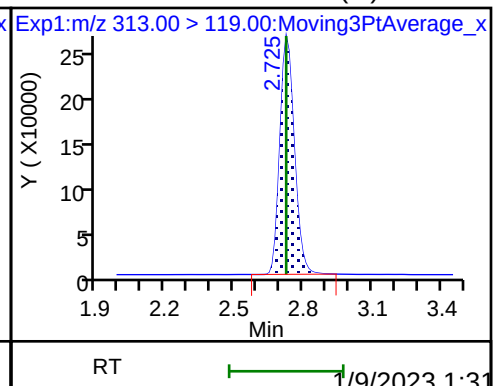
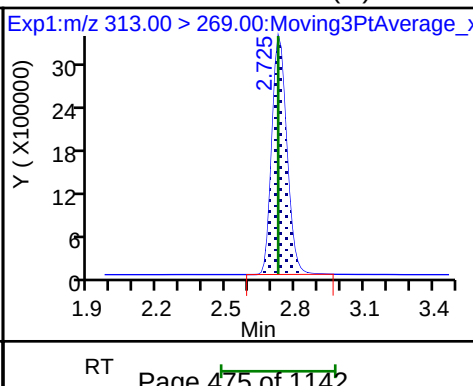
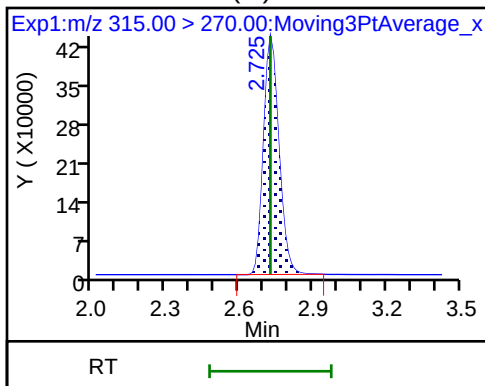
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

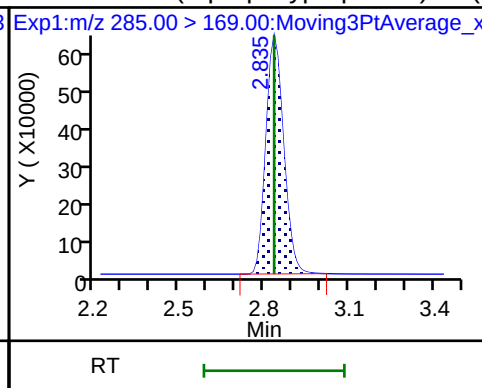
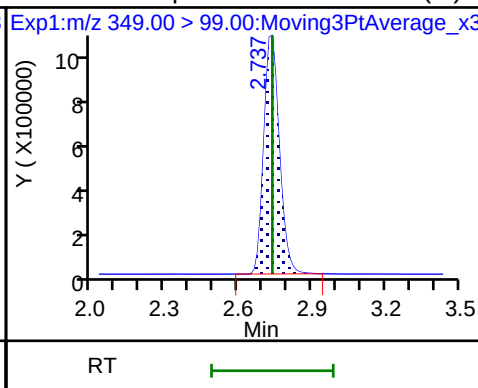
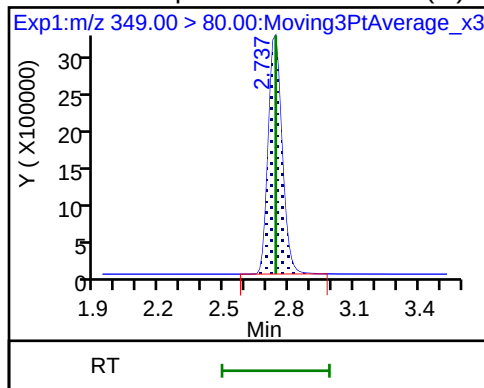
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

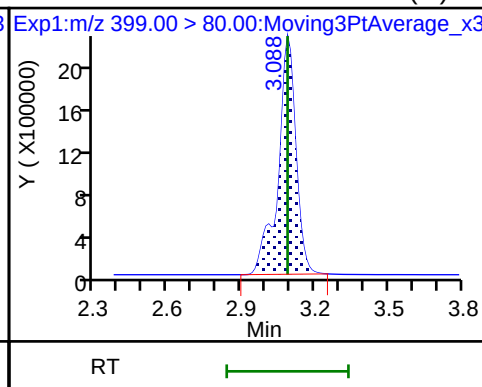
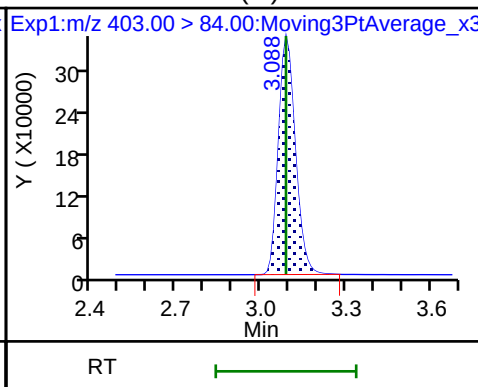
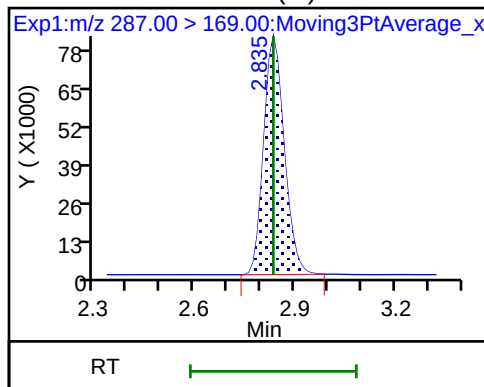
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA (M)

D 11 18O2 PFHxS (M)

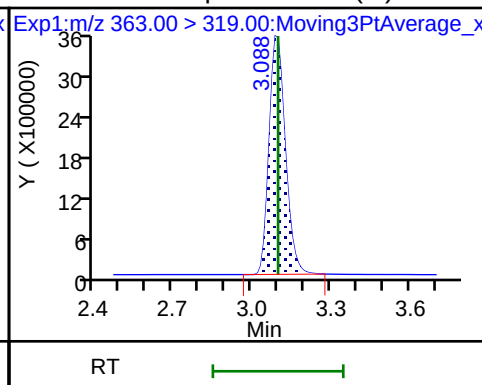
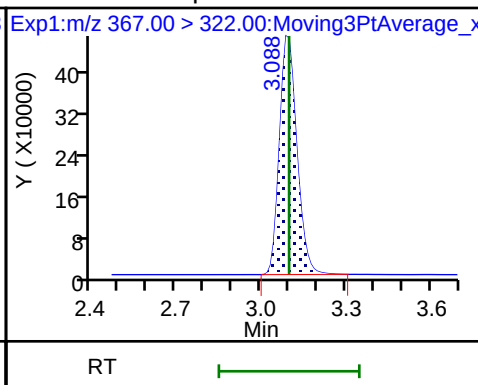
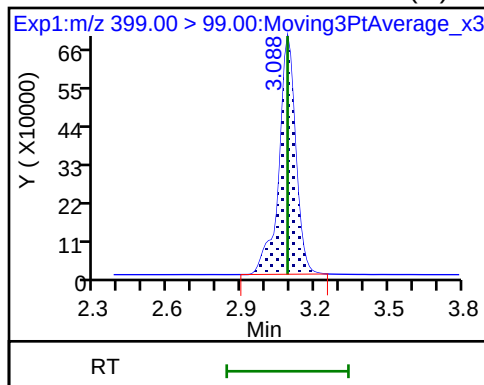
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

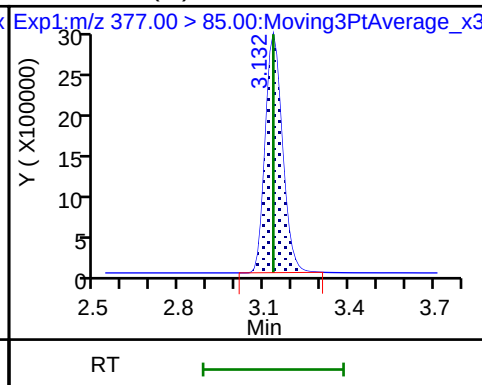
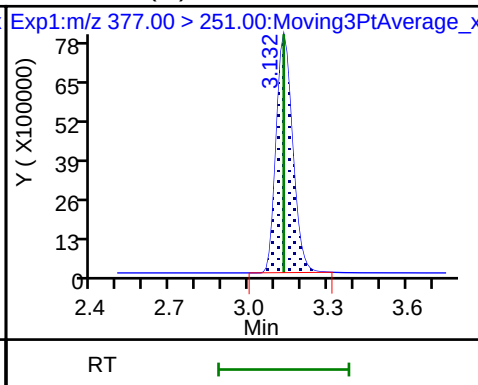
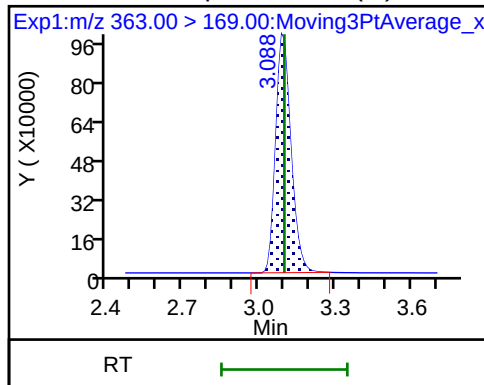
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

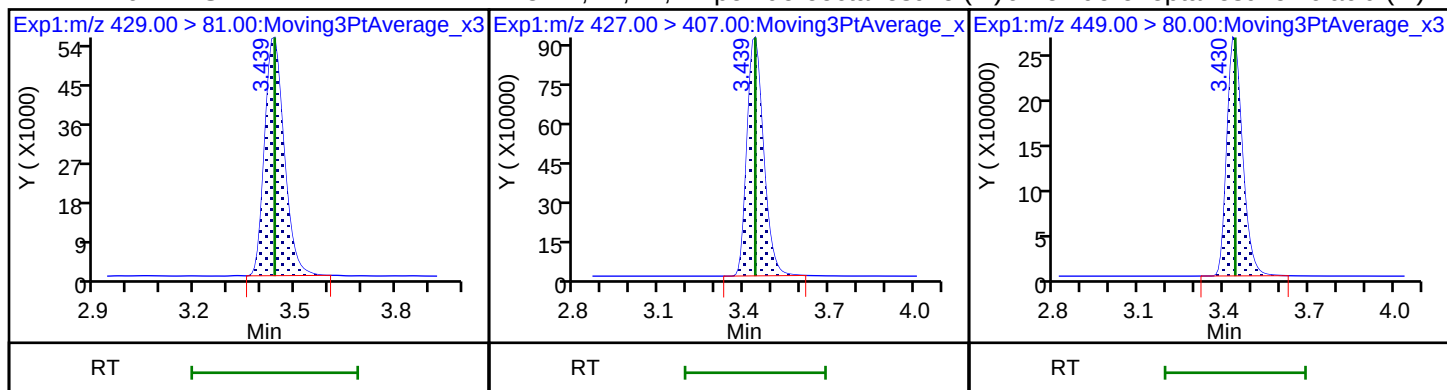
77 DONA (M)

77 DONA (M)



D 12 M2-6:2 FTS

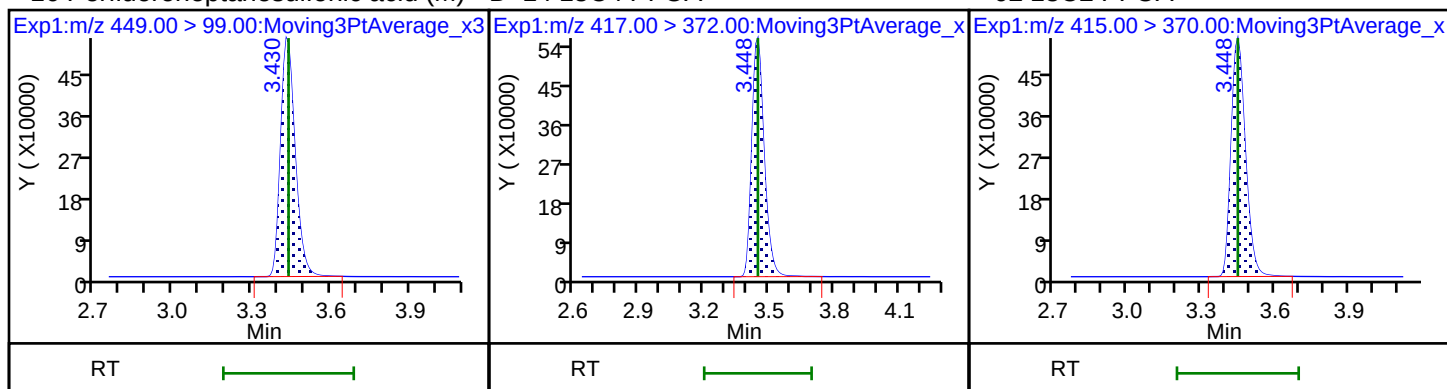
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

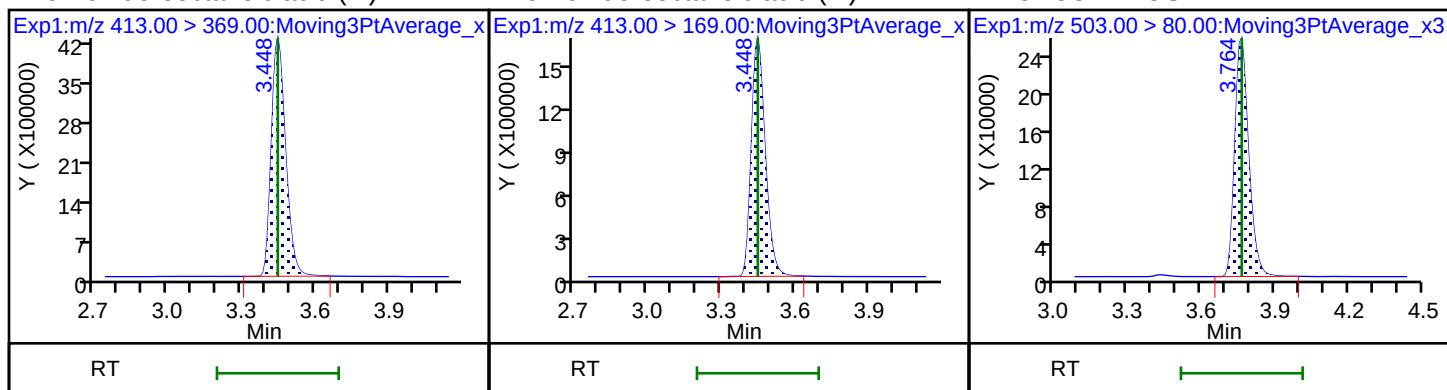
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

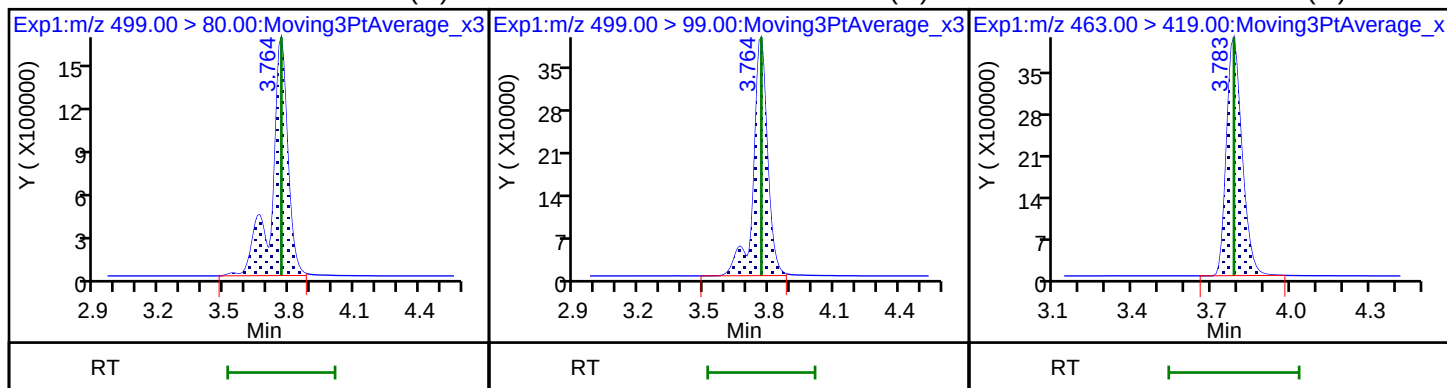
D 18 13C4 PFOS

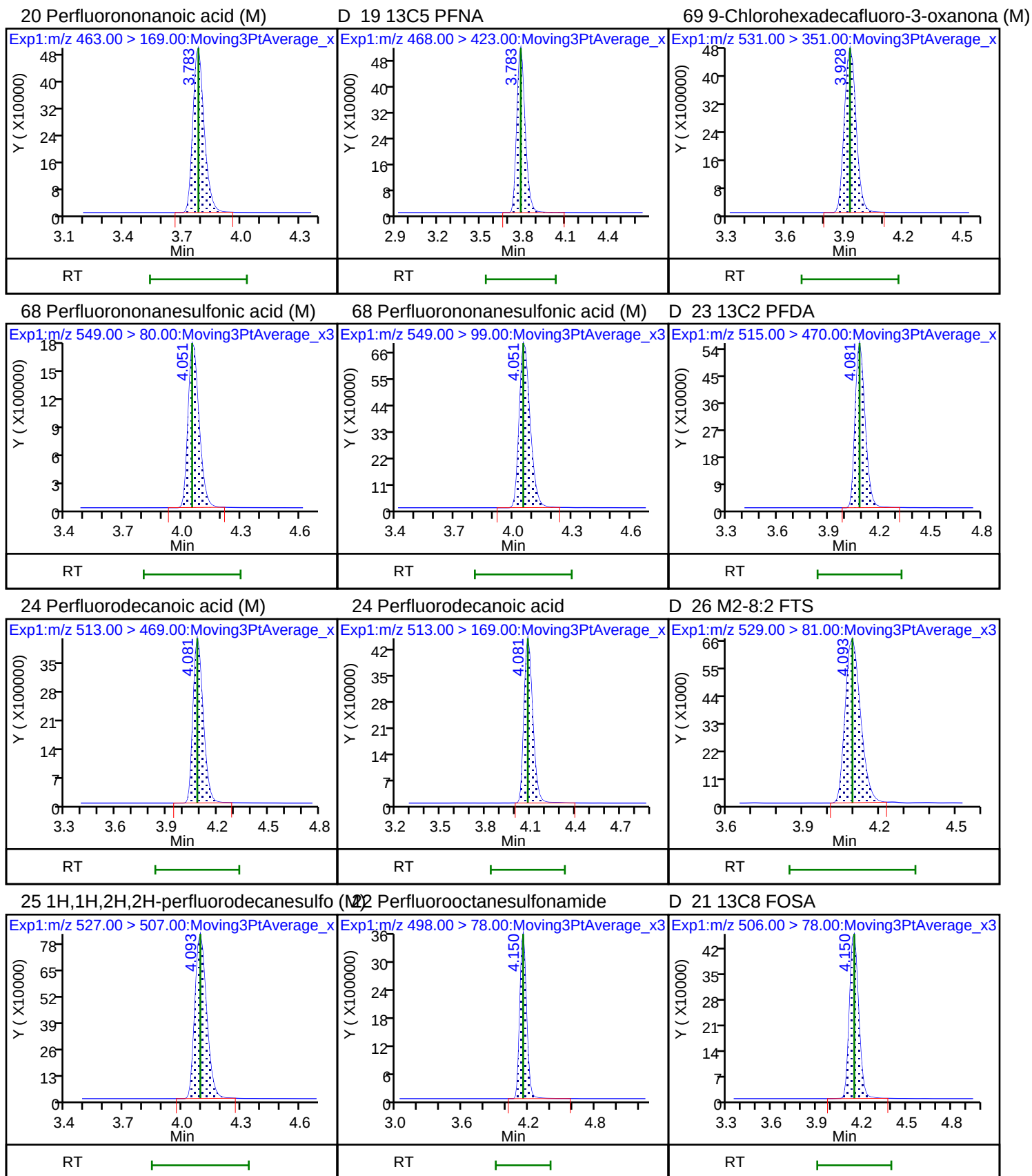


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

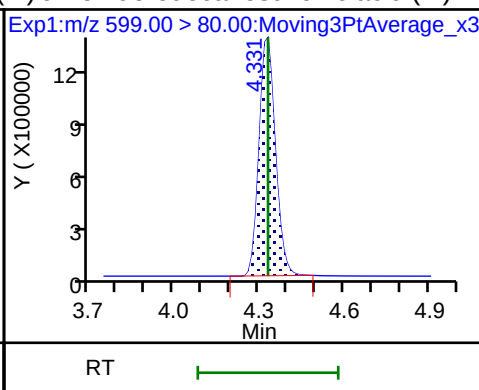
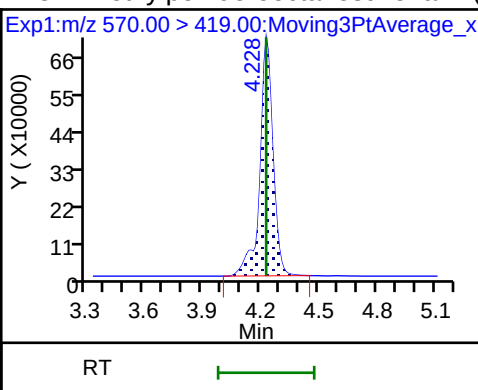
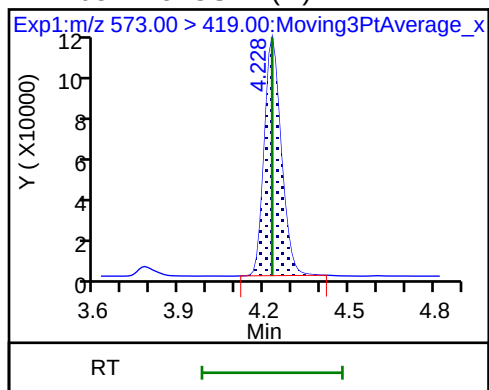




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

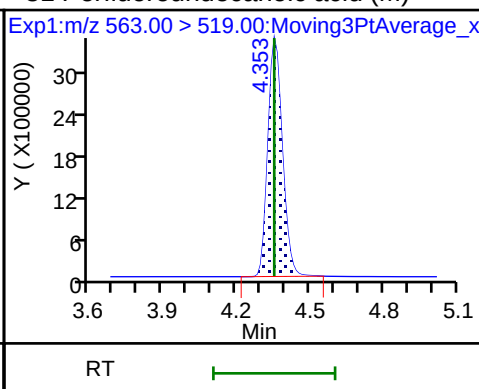
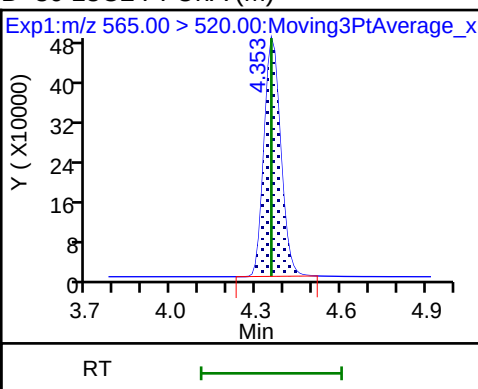
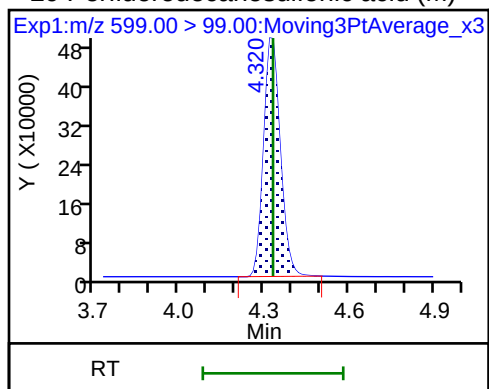
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

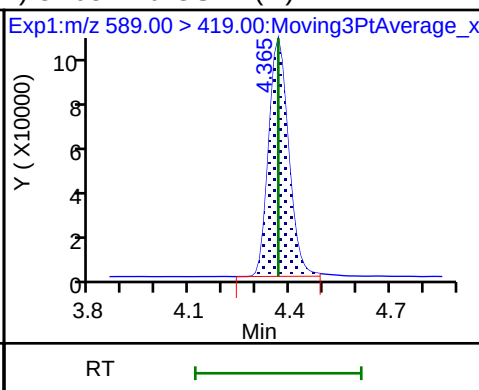
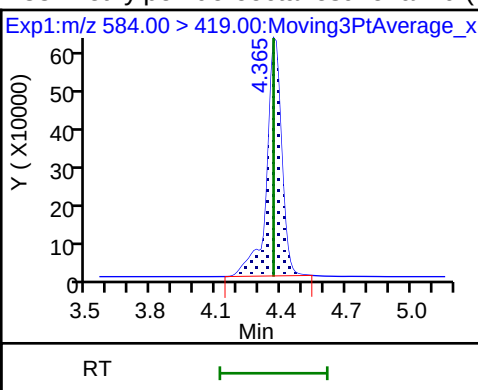
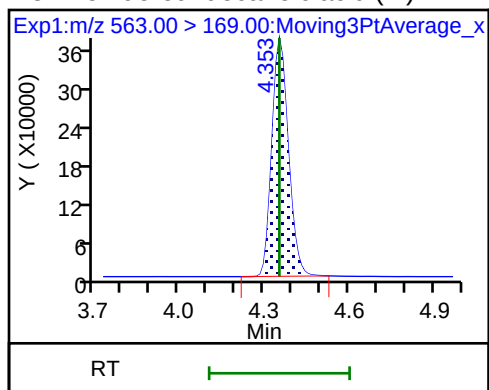
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

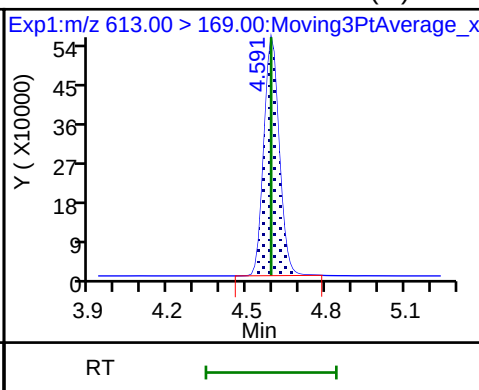
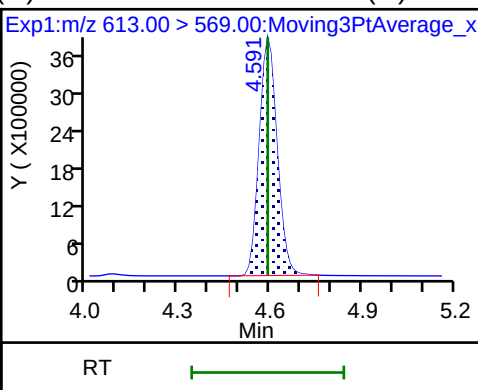
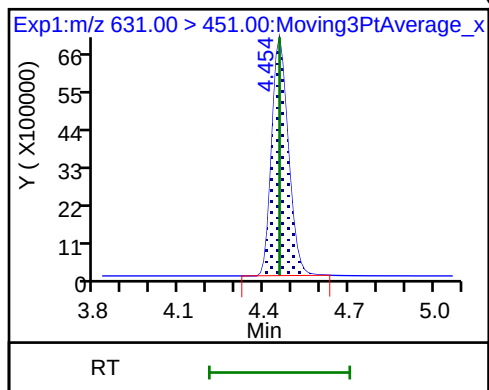
32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

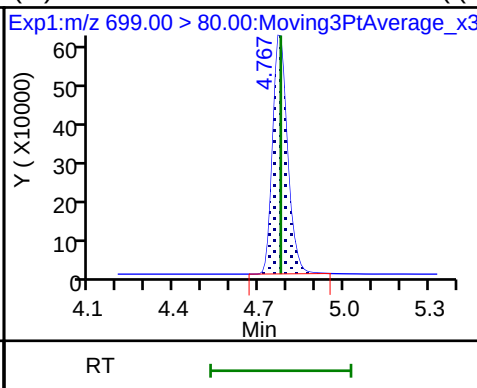
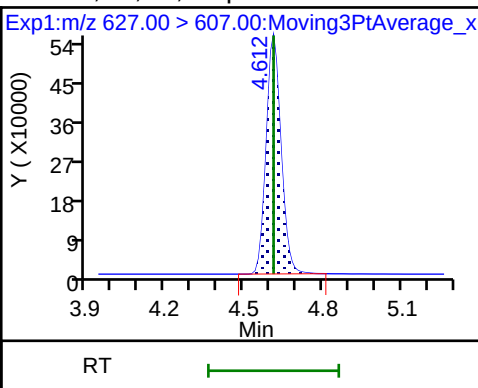
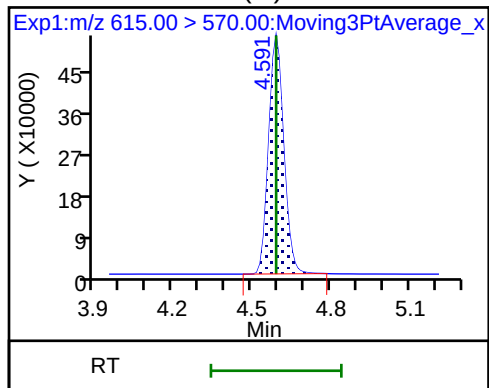
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



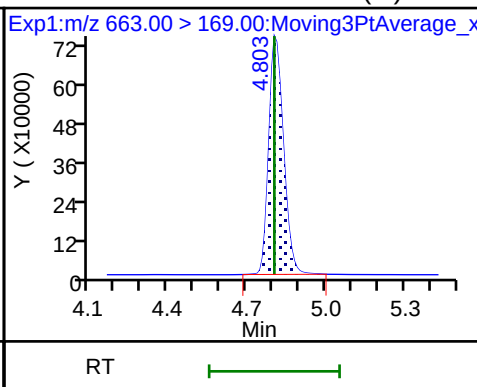
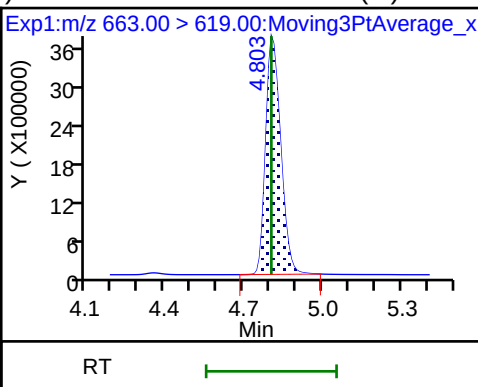
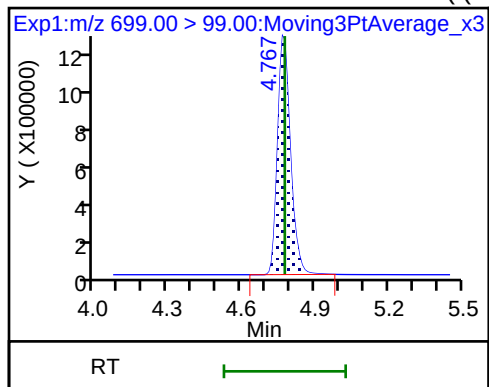
D 36 13C2 PFDa (M)

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

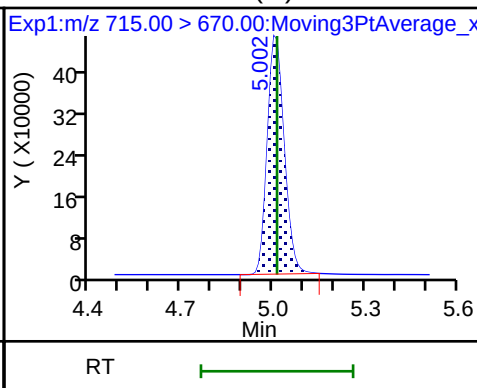
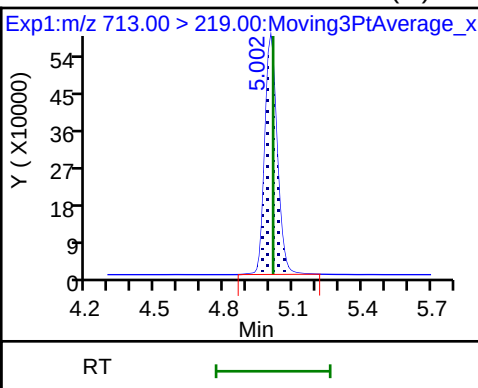
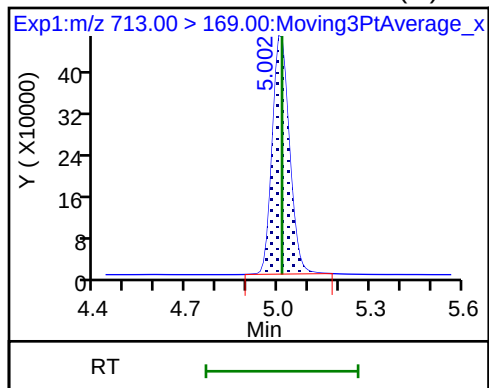
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

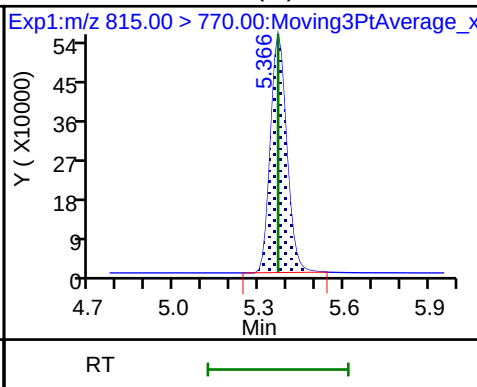
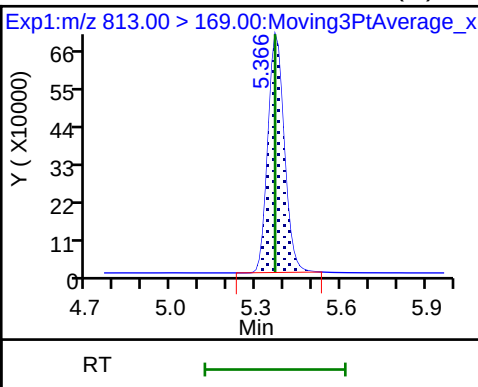
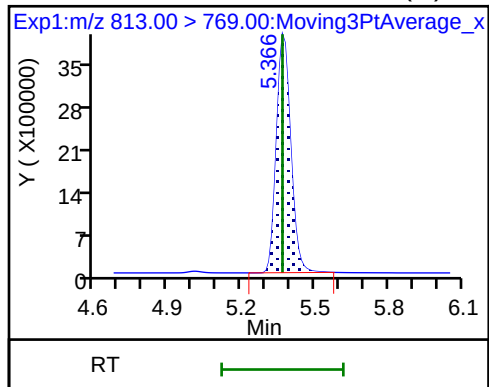
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

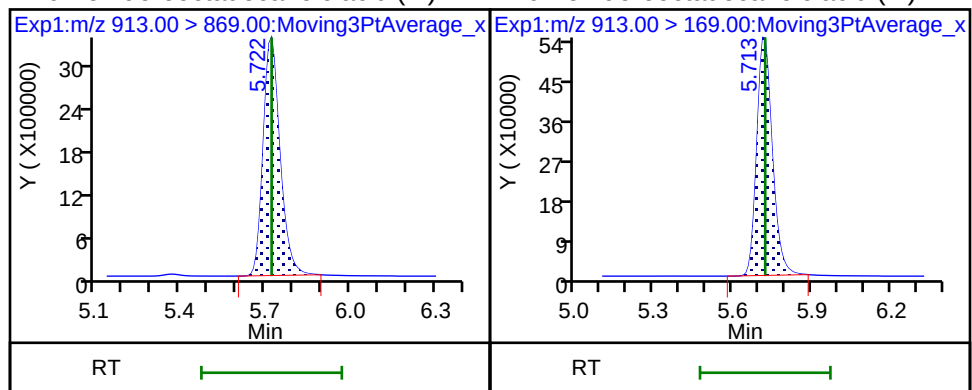
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

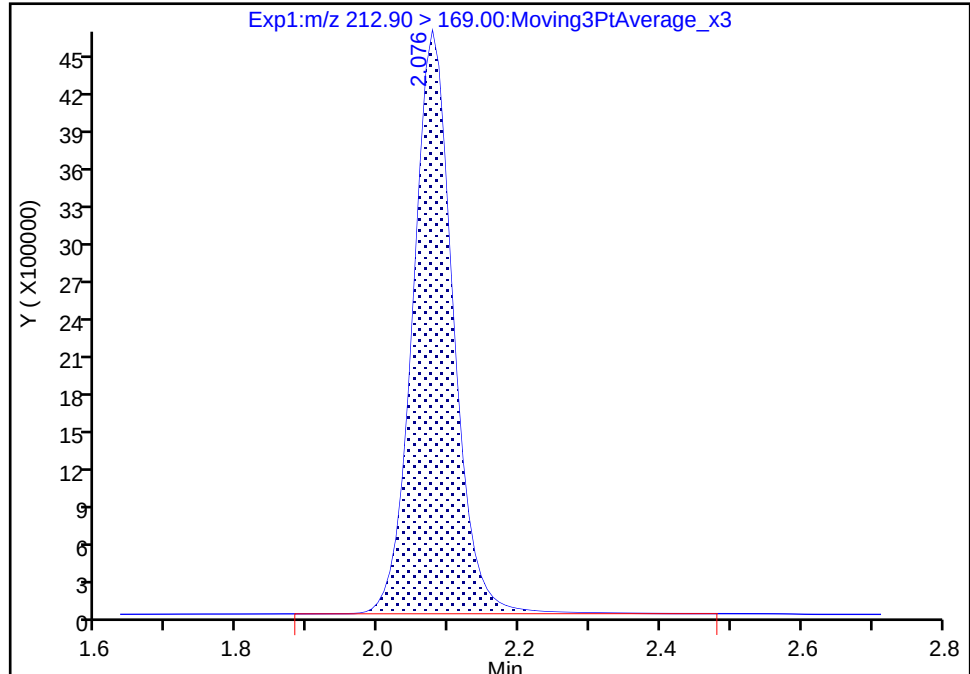
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

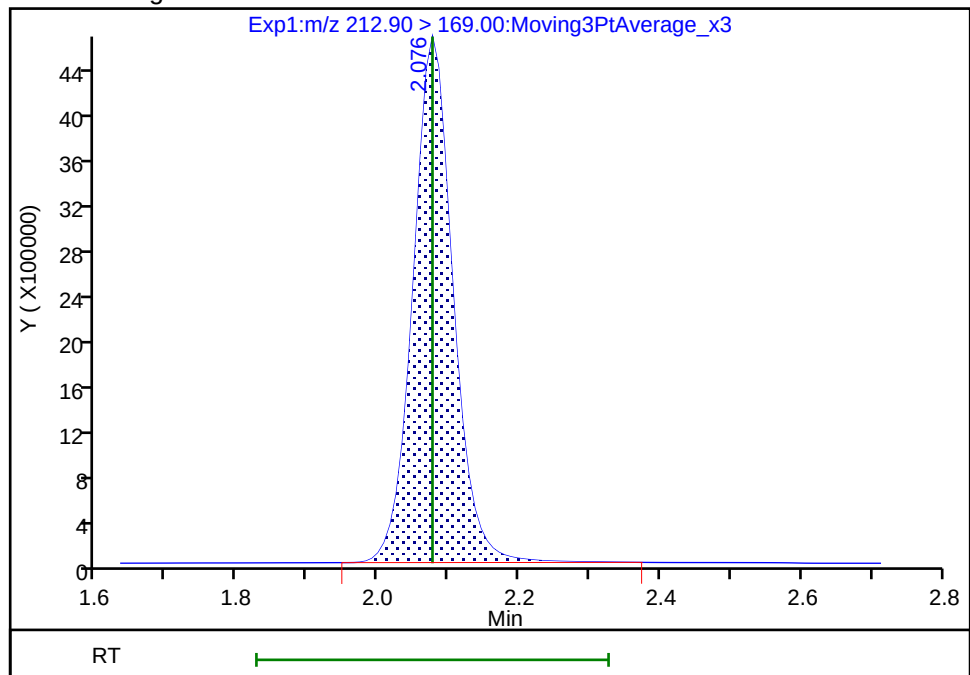
RT: 2.08
Area: 18330073
Amount: 9.001467
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 18287579
Amount: 8.983723
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

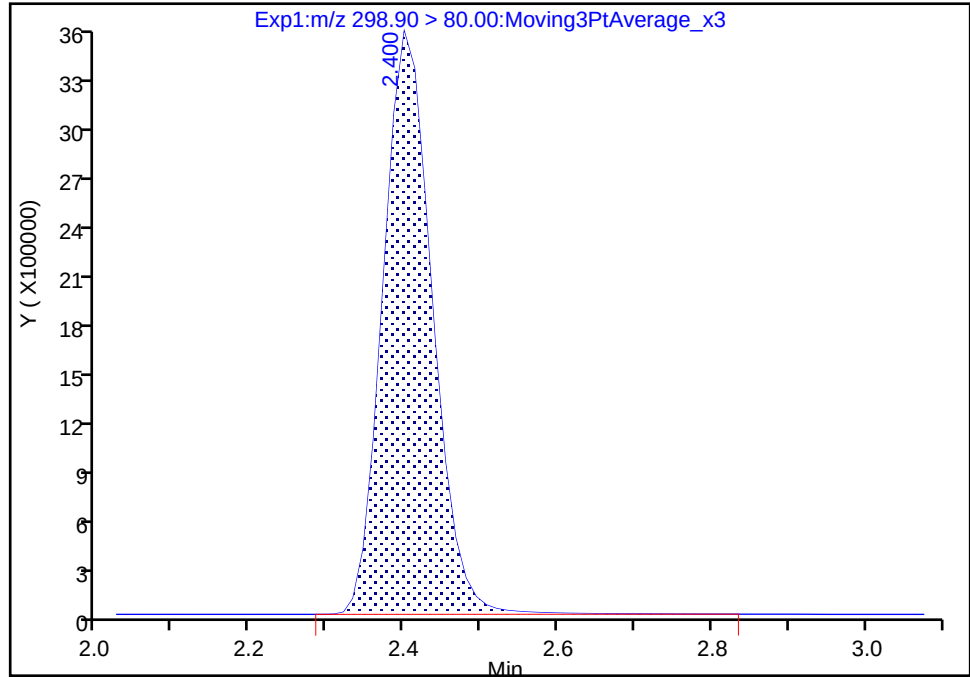
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

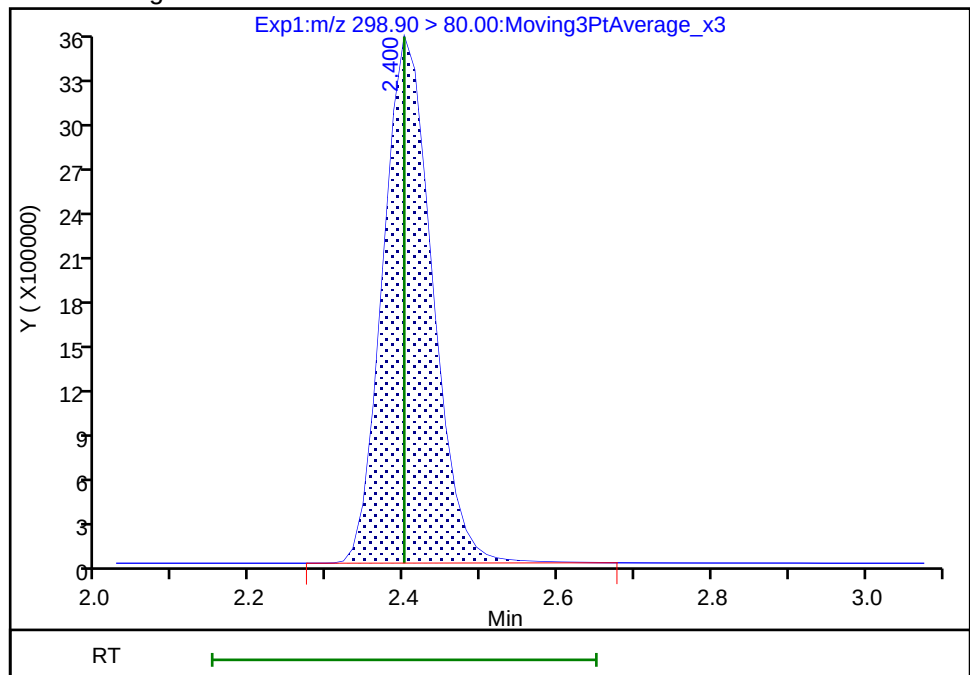
RT: 2.40
Area: 15798970
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 15764131
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

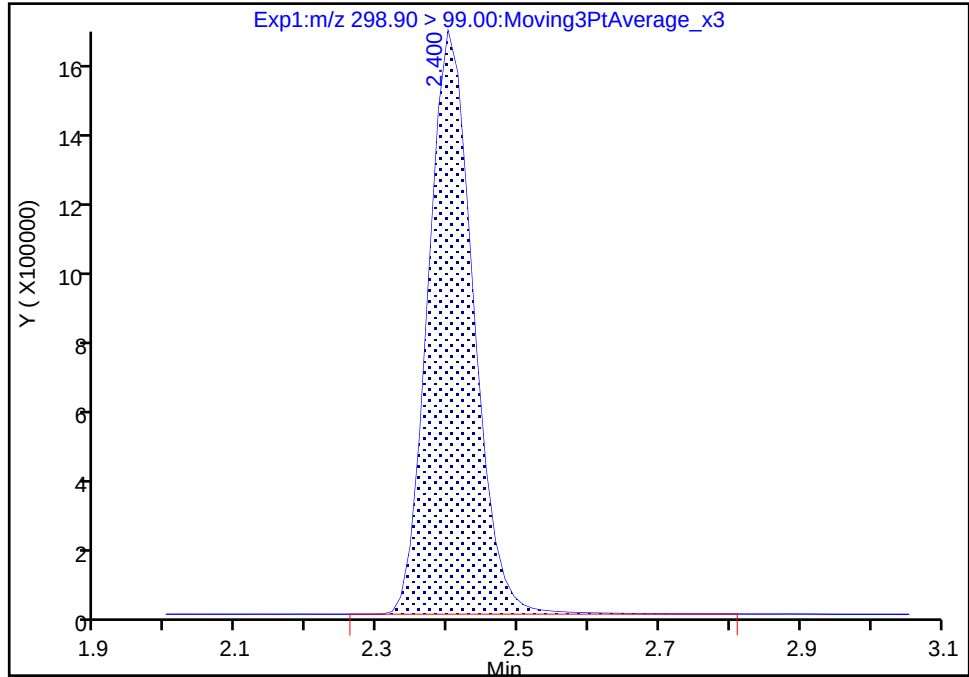
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

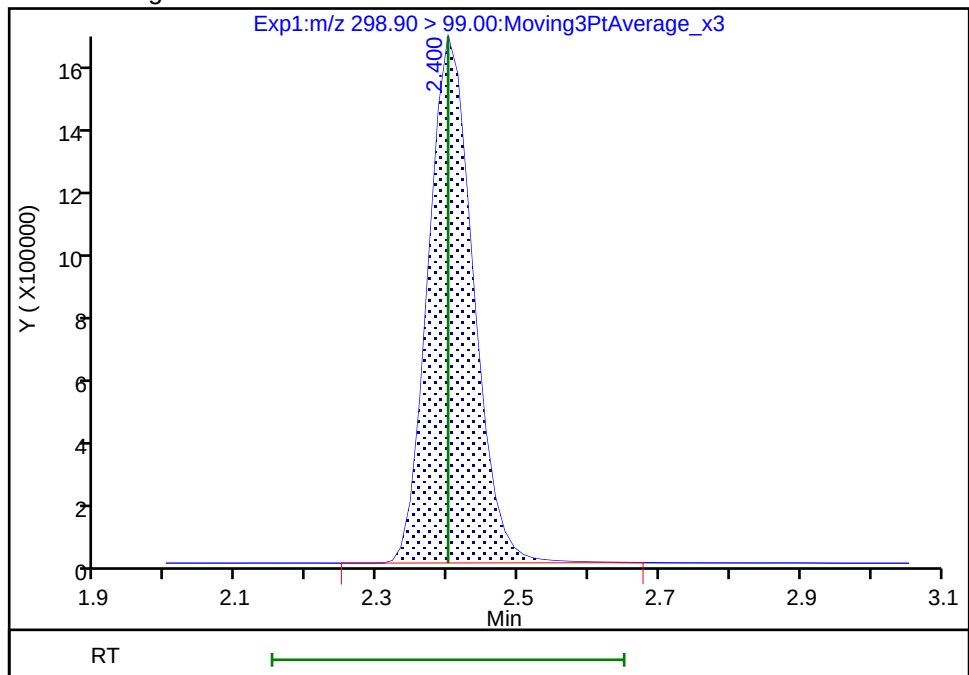
RT: 2.40
Area: 7478716
Amount: 8.357707
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 7462883
Amount: 8.342176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:23:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

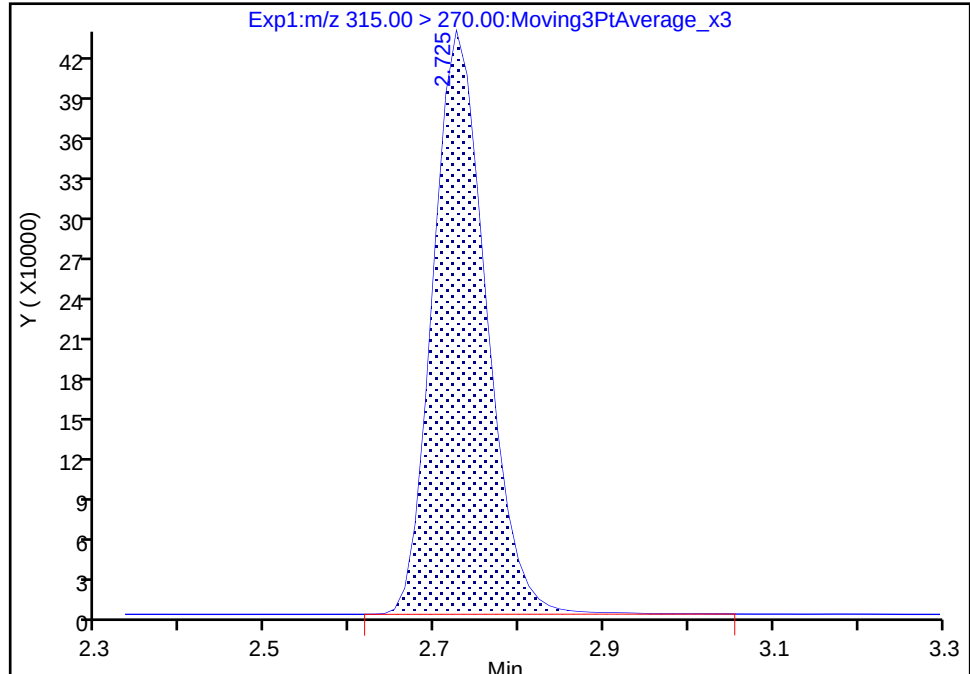
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

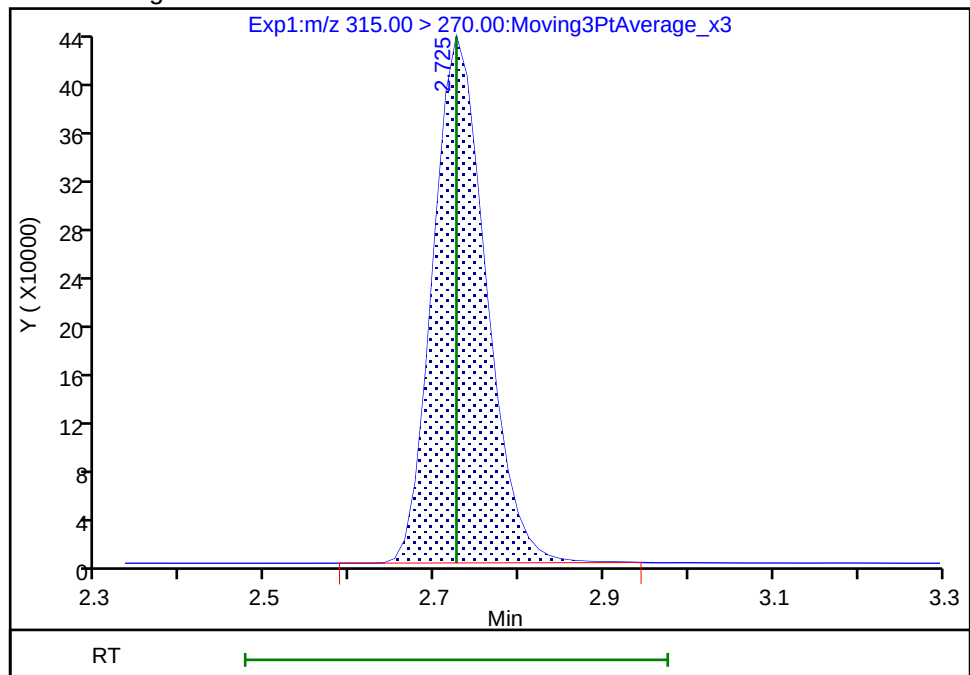
RT: 2.73
Area: 1911172
Amount: 1.275554
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1905245
Amount: 1.272270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

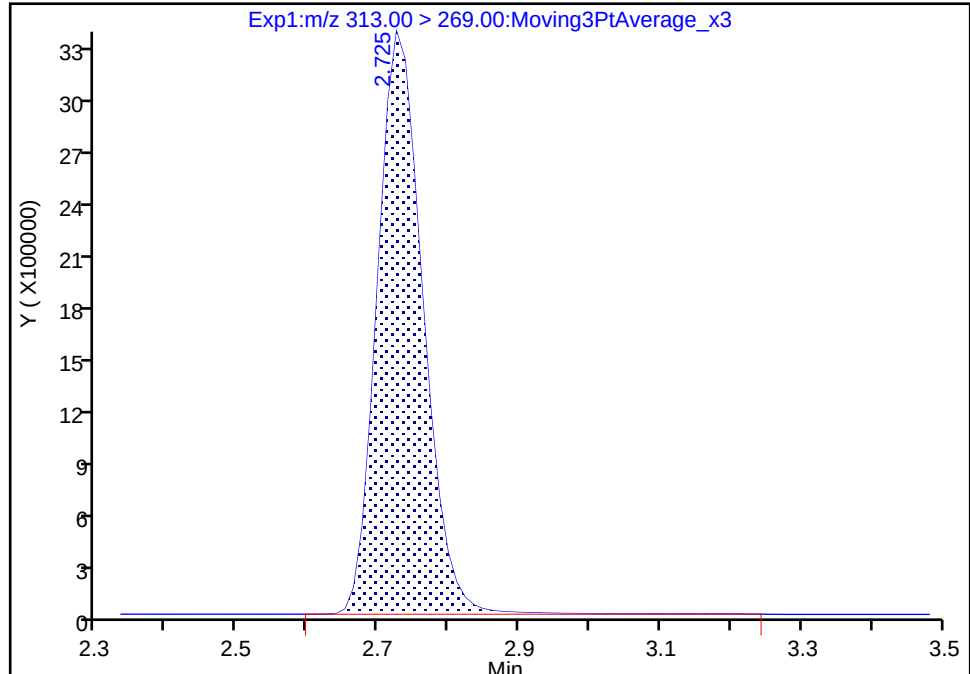
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

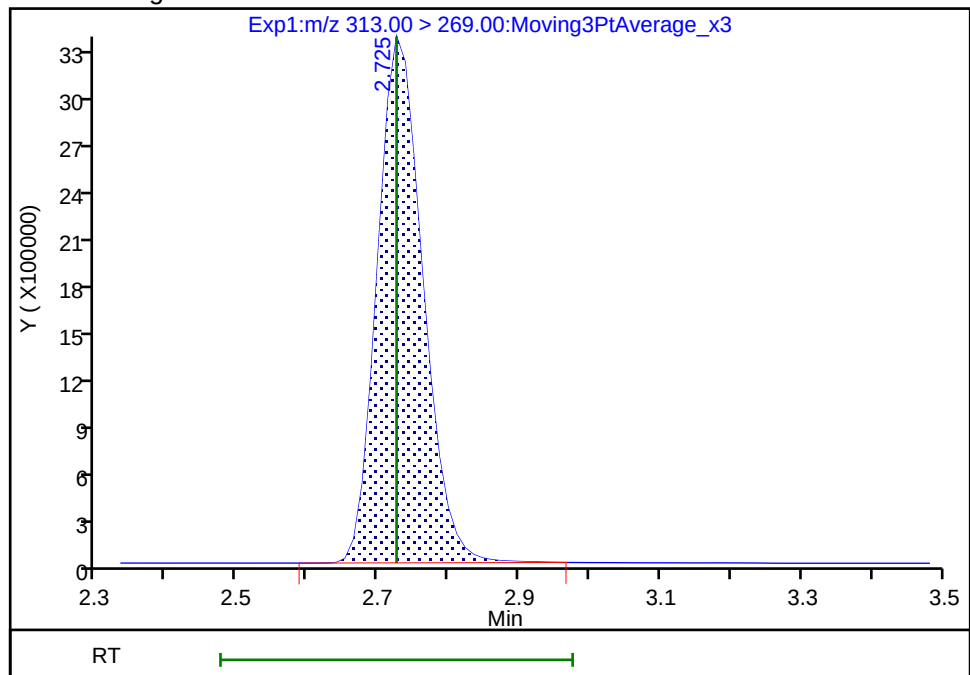
RT: 2.73
Area: 15003210
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 14928997
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

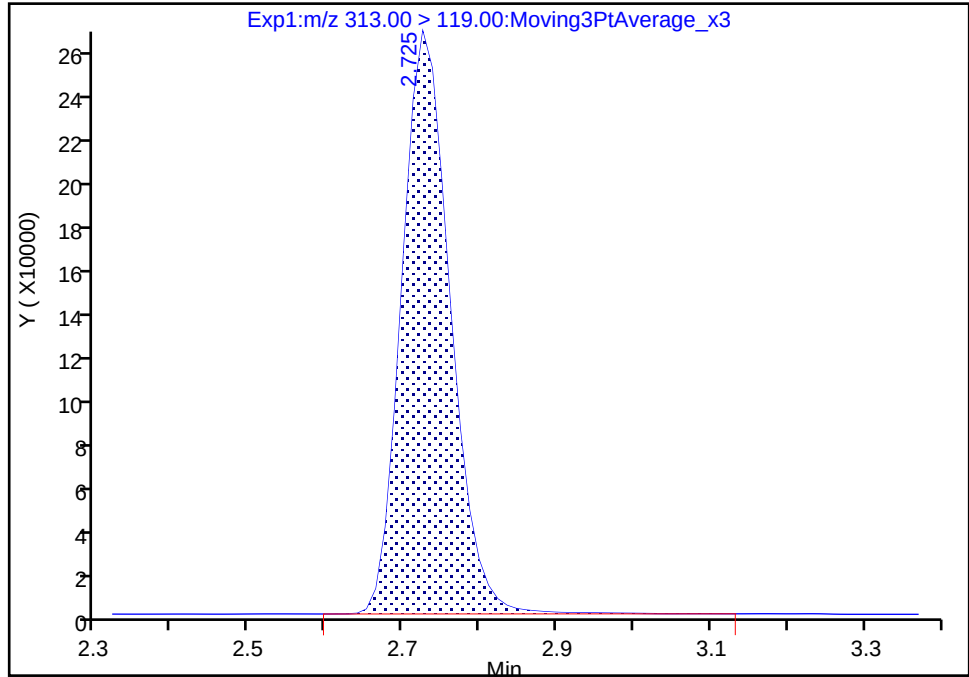
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

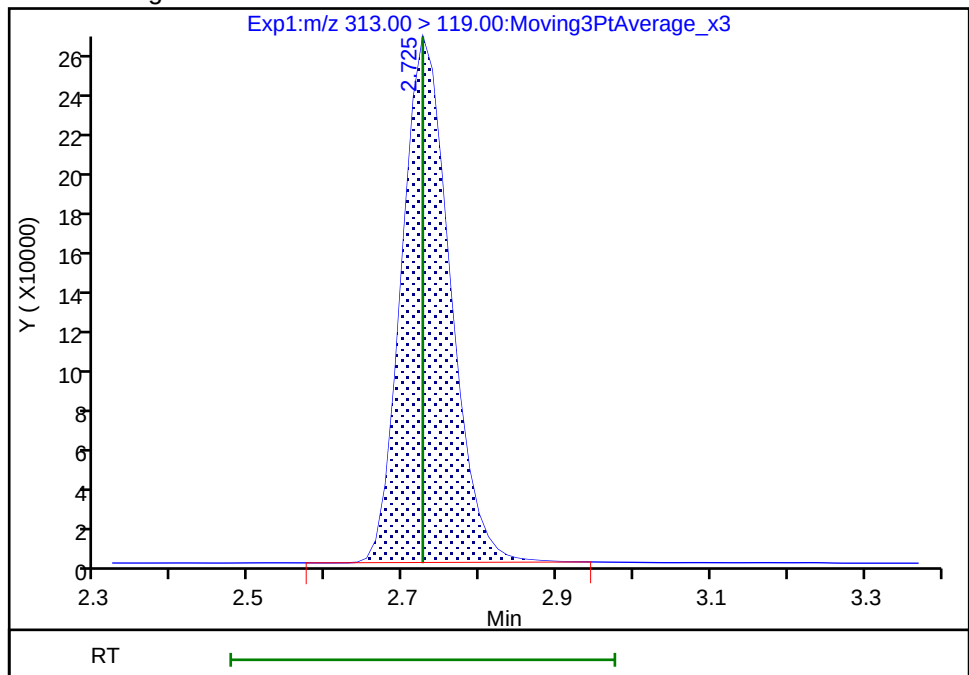
RT: 2.73
Area: 1145989
Amount: 9.027111
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1139463
Amount: 8.989149
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

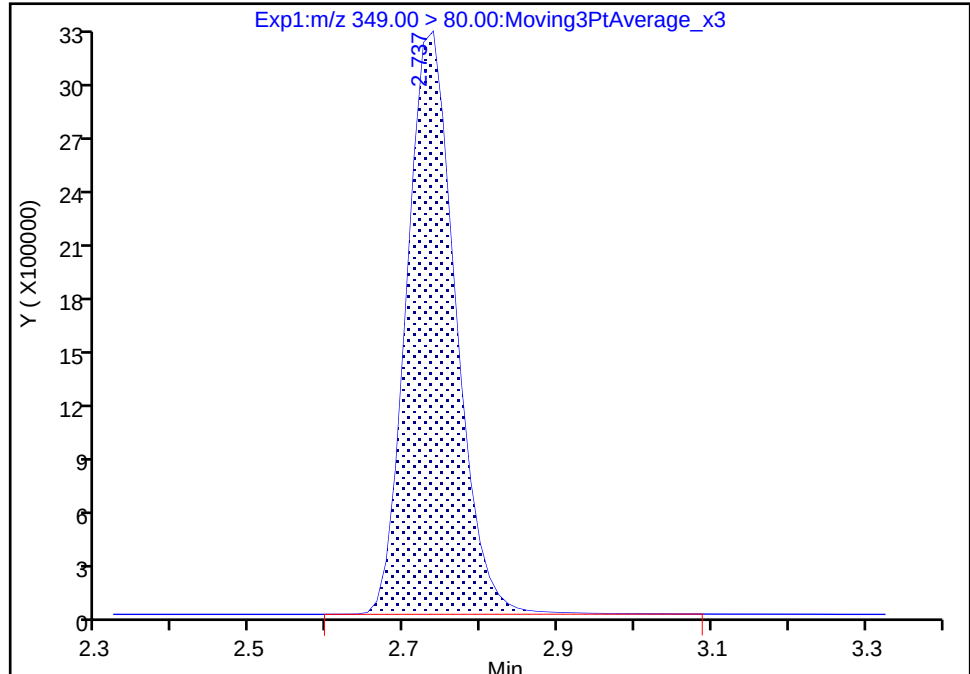
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

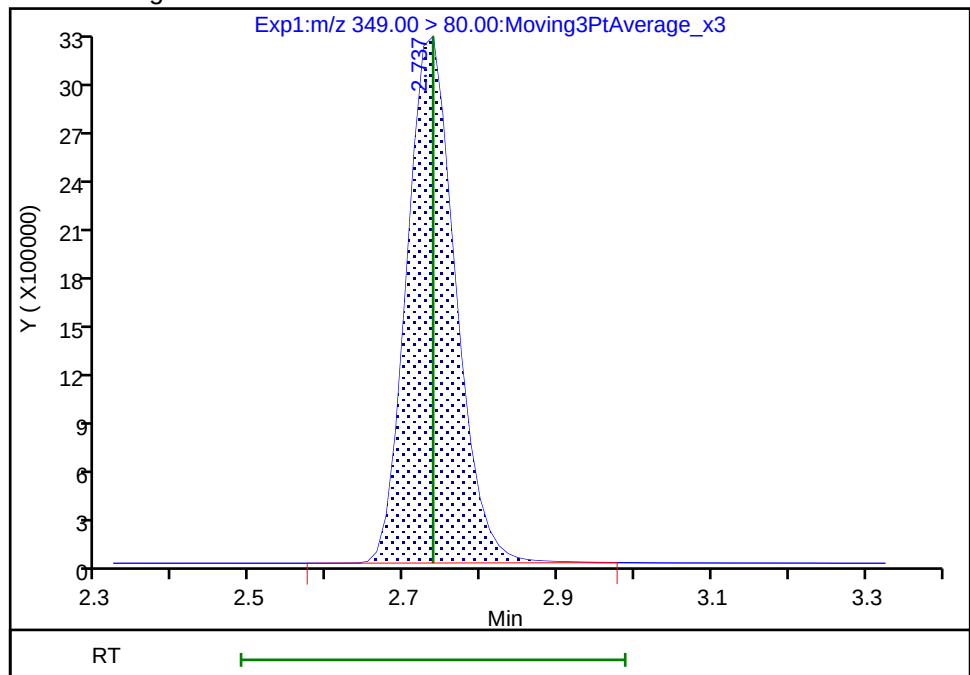
RT: 2.74
Area: 14186111
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 14151584
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

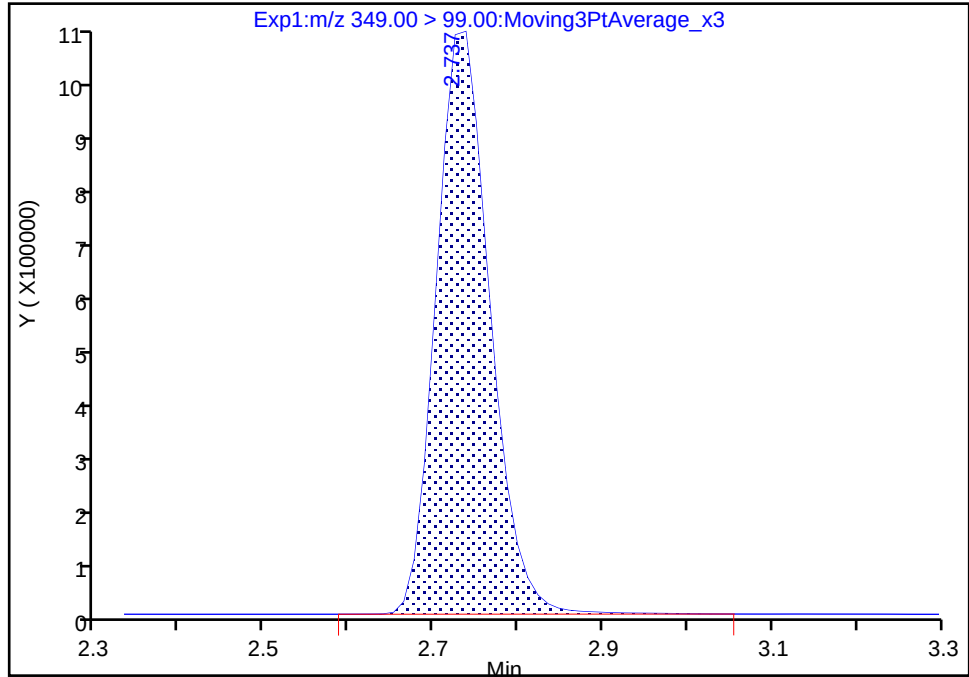
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

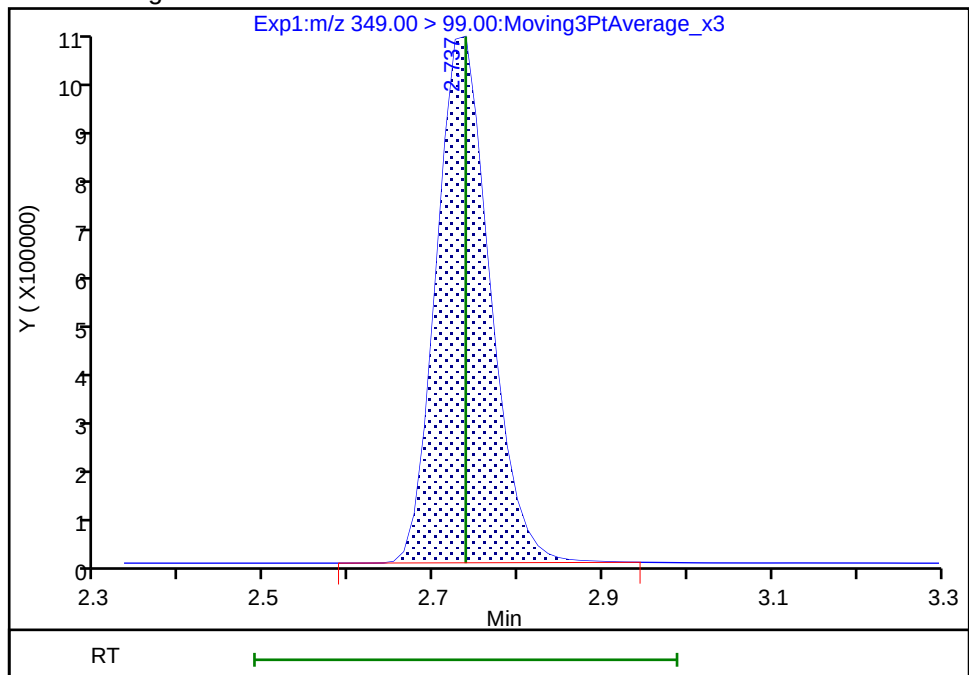
RT: 2.74
Area: 4717898
Amount: 8.840241
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 4699585
Amount: 8.842730
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

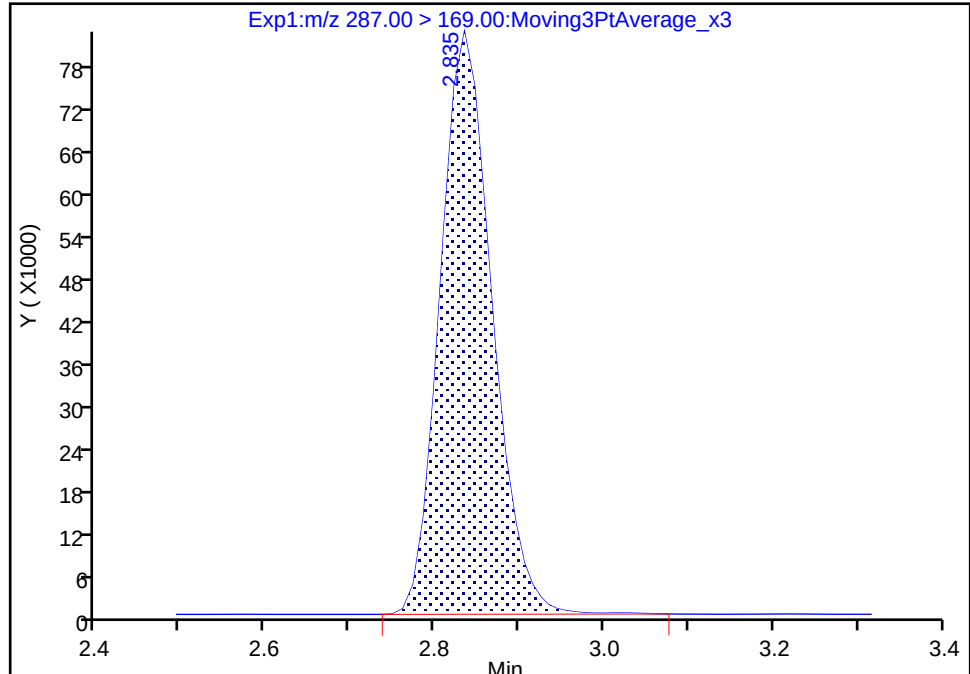
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

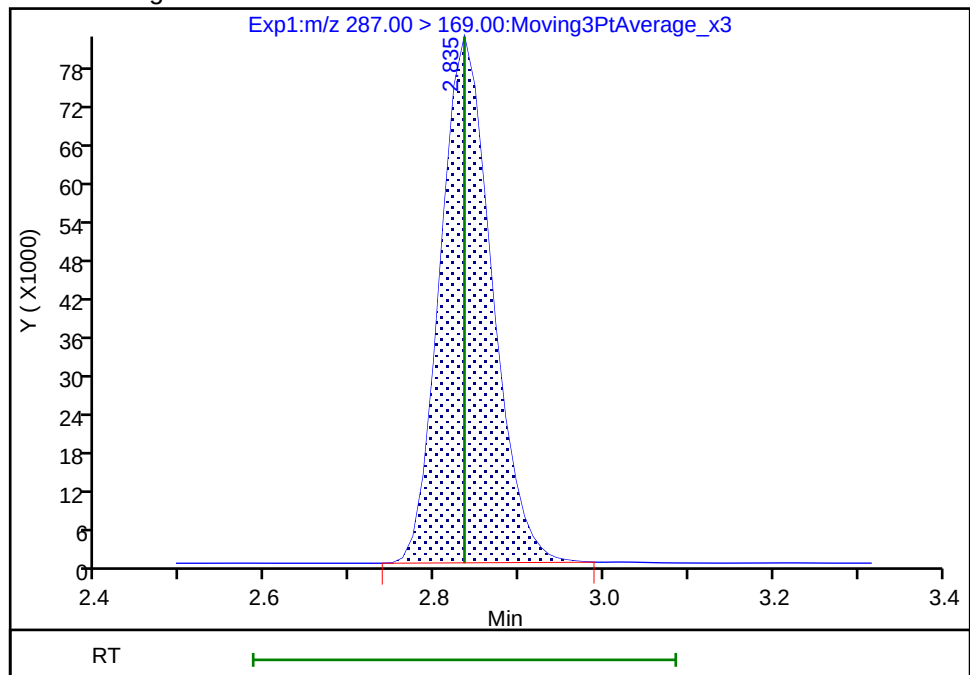
RT: 2.83
Area: 350493
Amount: 1.325043
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 349067
Amount: 1.320601
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

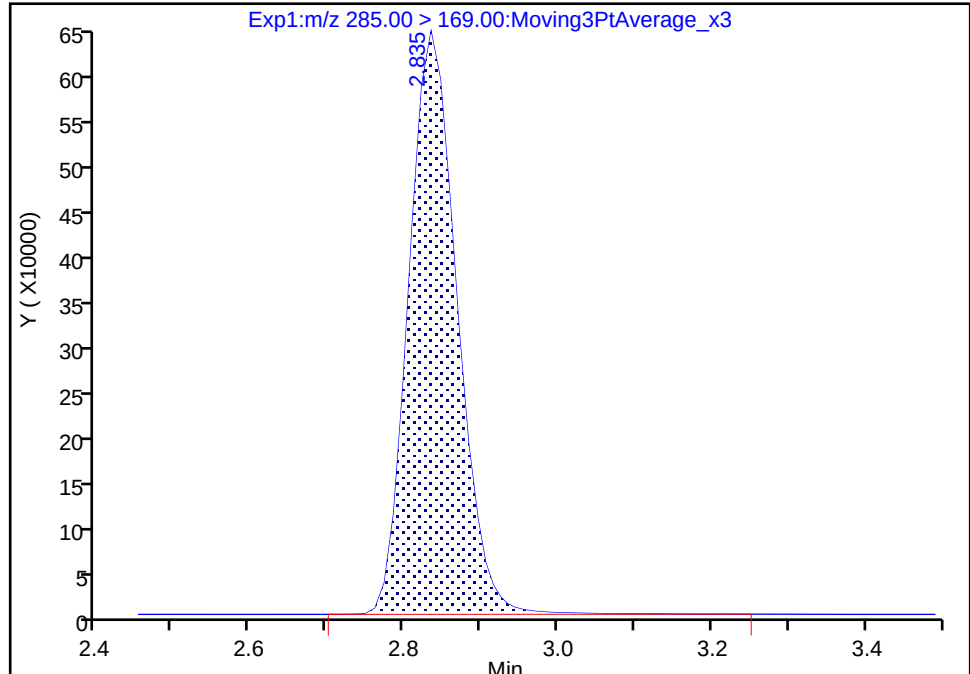
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

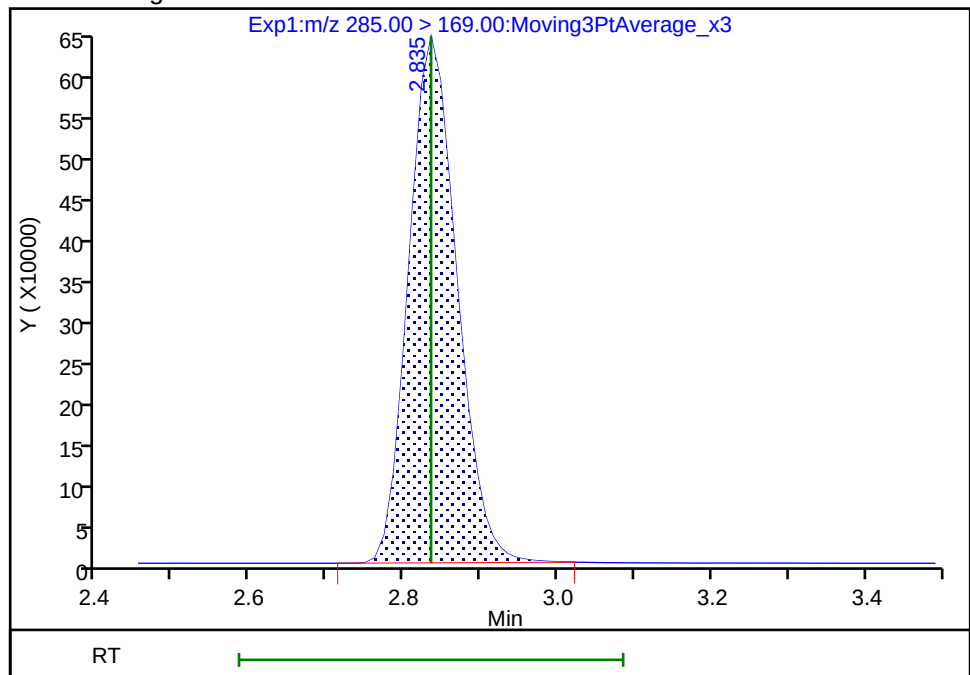
RT: 2.83
Area: 2806230
Amount: 9.475934
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 2790710
Amount: 9.464218
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

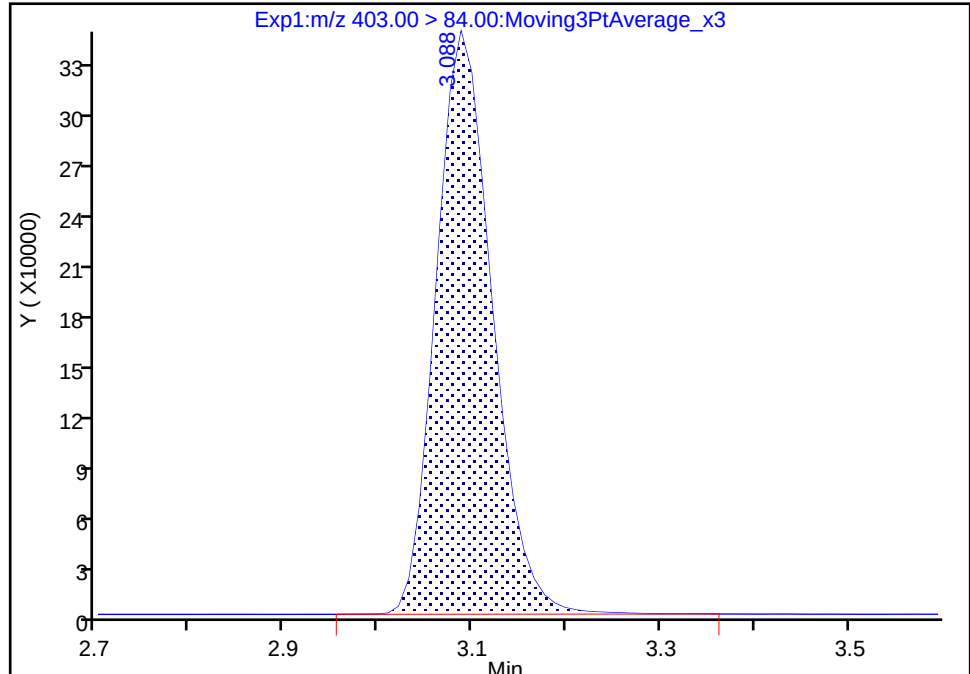
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

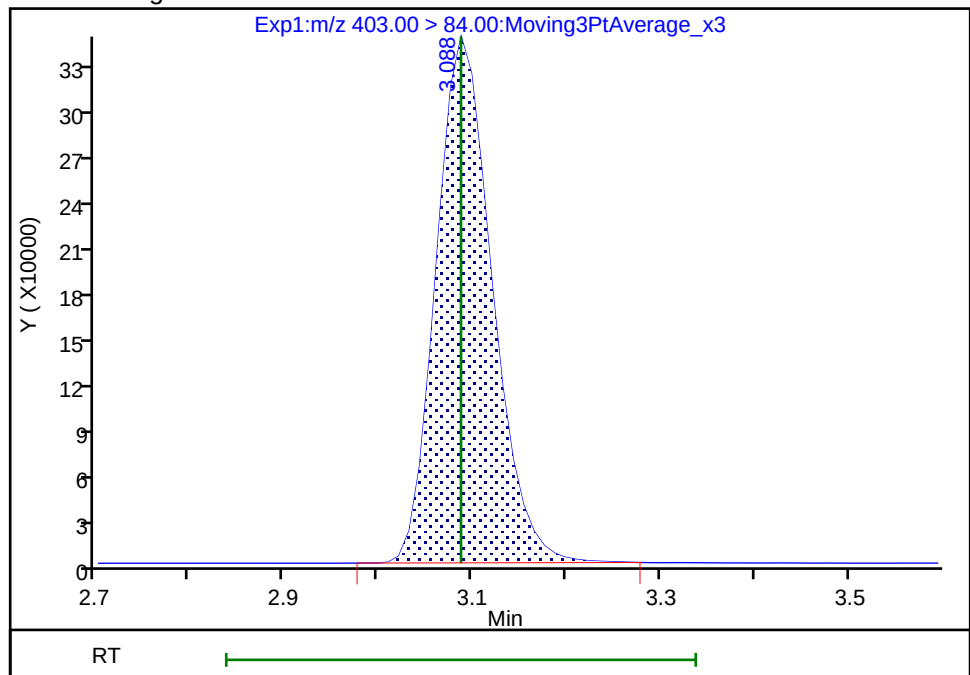
RT: 3.09
Area: 1421016
Amount: 1.255570
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1417084
Amount: 1.252709
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

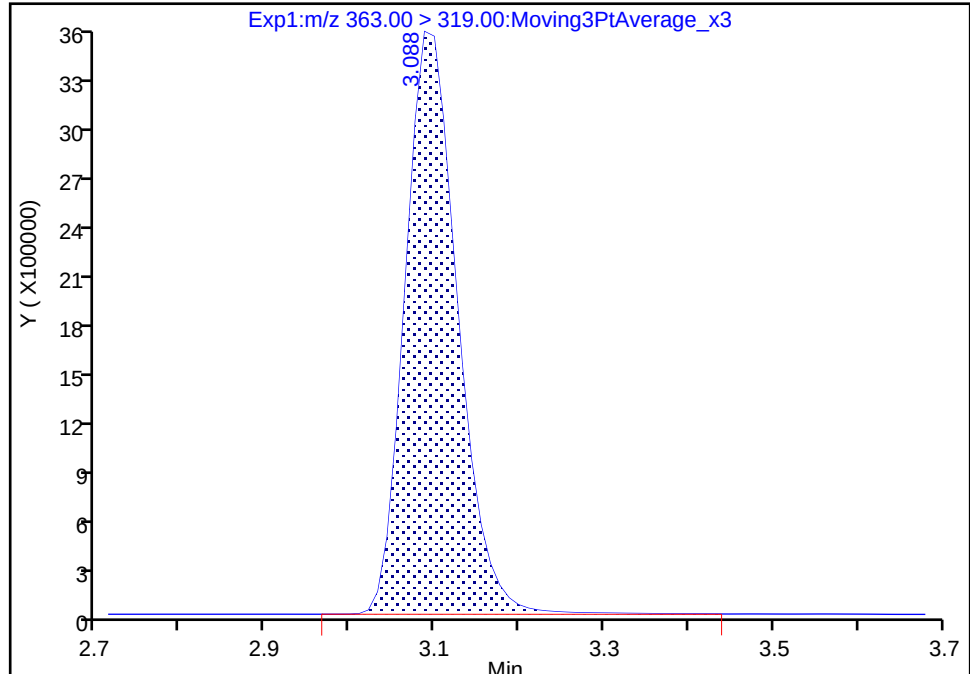
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

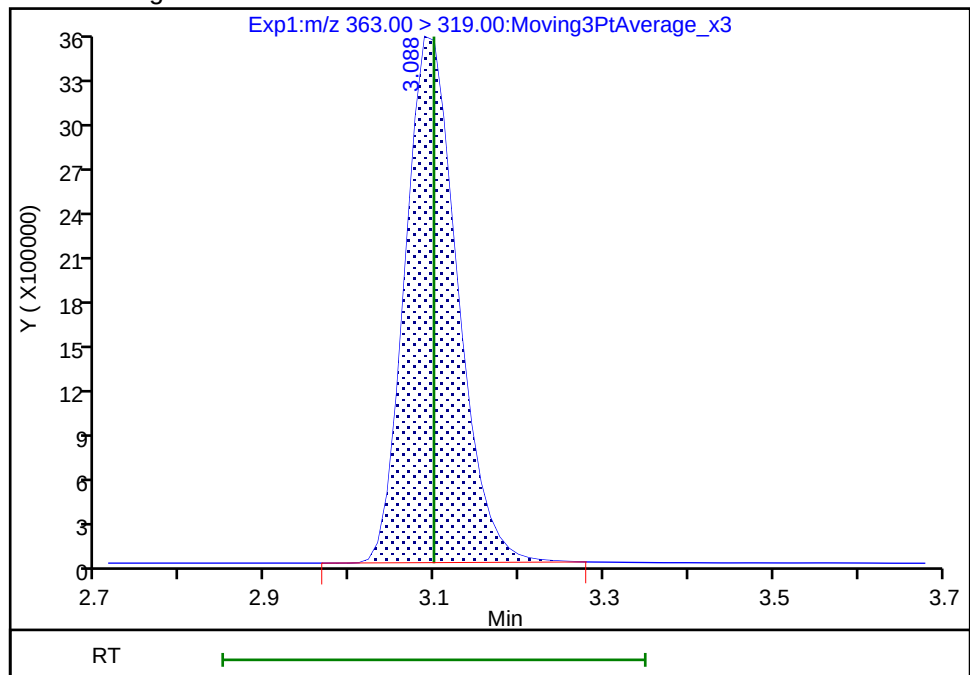
RT: 3.09
Area: 15507574
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 15384783
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

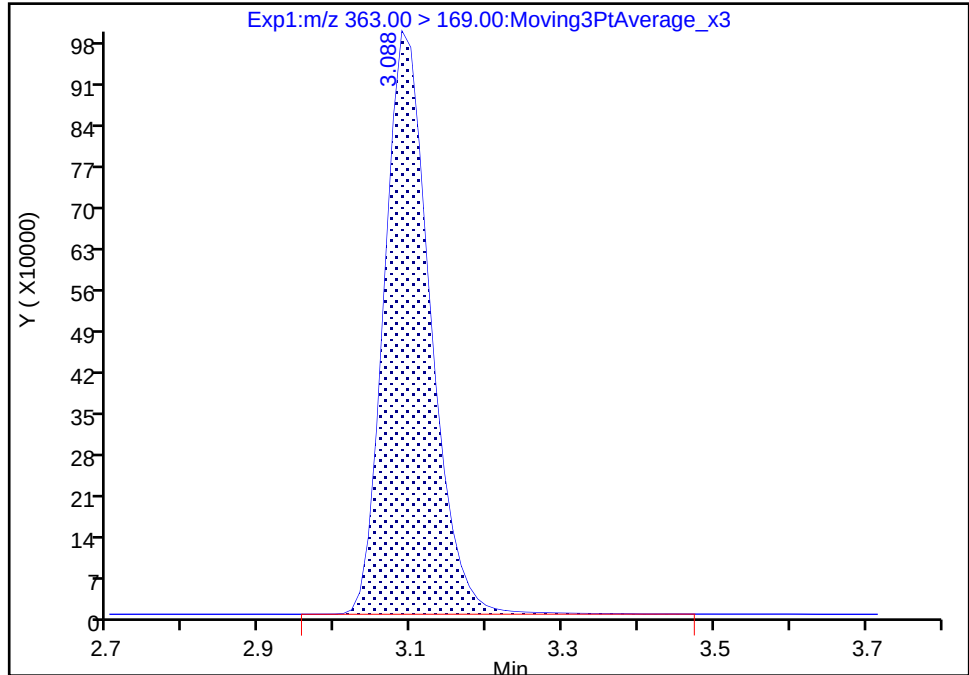
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

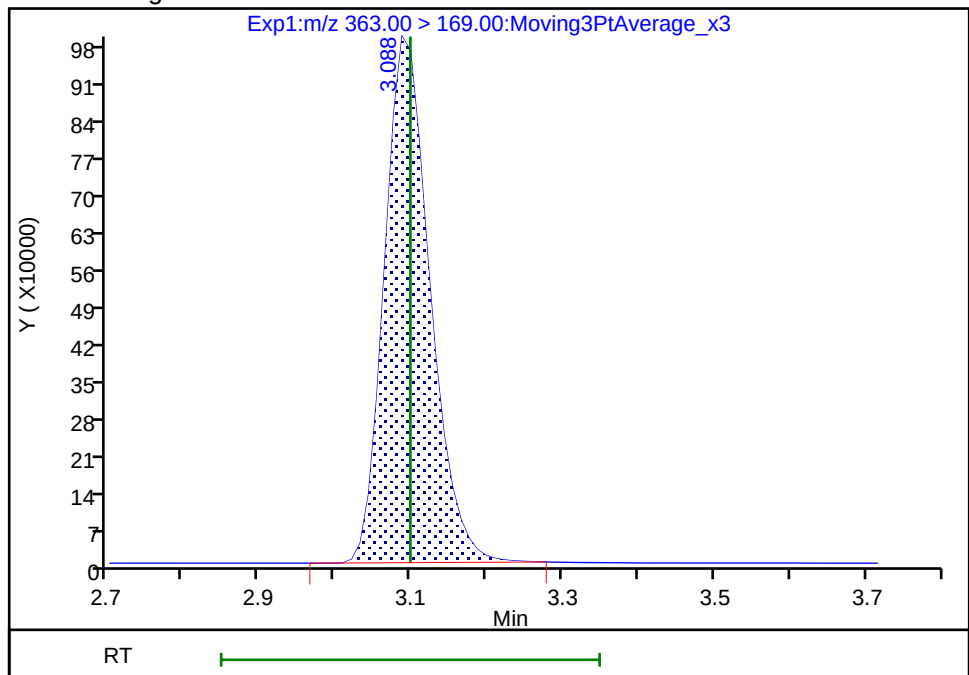
RT: 3.09
Area: 4165412
Amount: 9.027672
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 4138402
Amount: 8.966873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 494 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

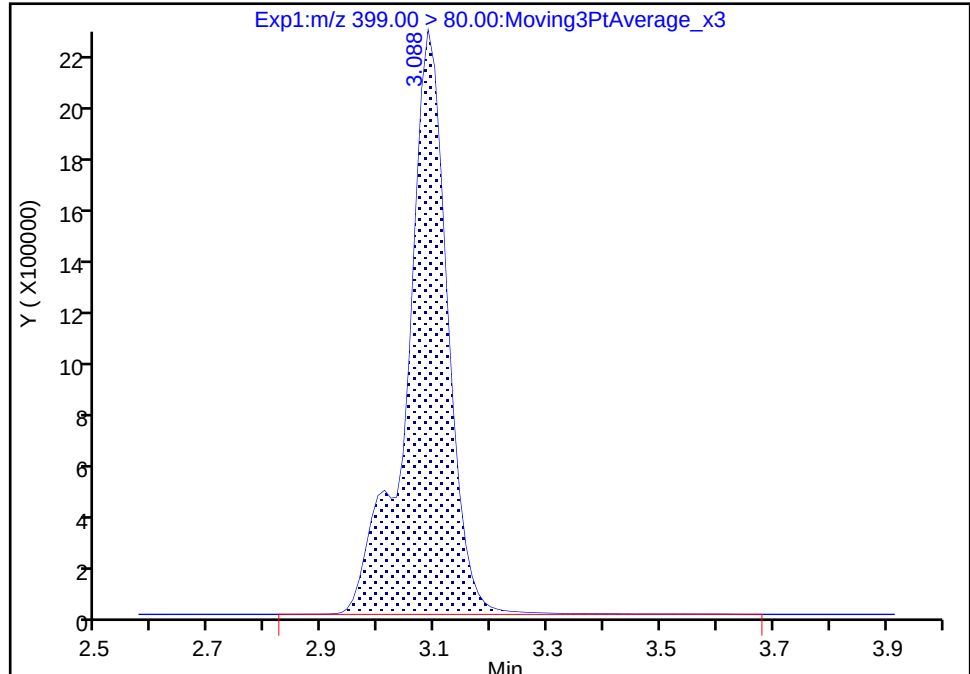
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

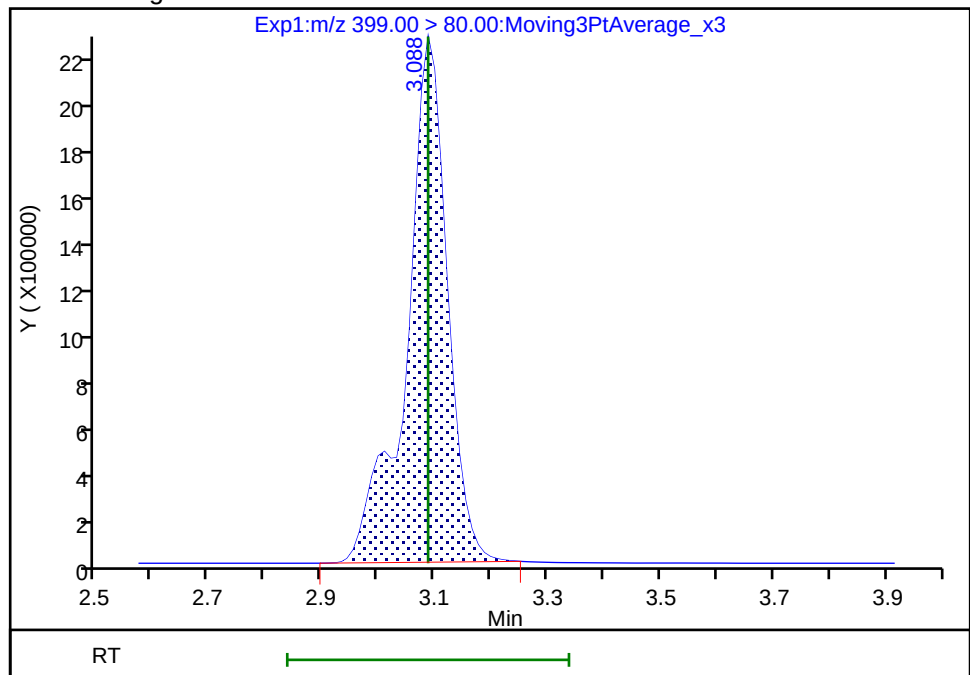
RT: 3.09
Area: 11572919
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 11438488
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:24:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

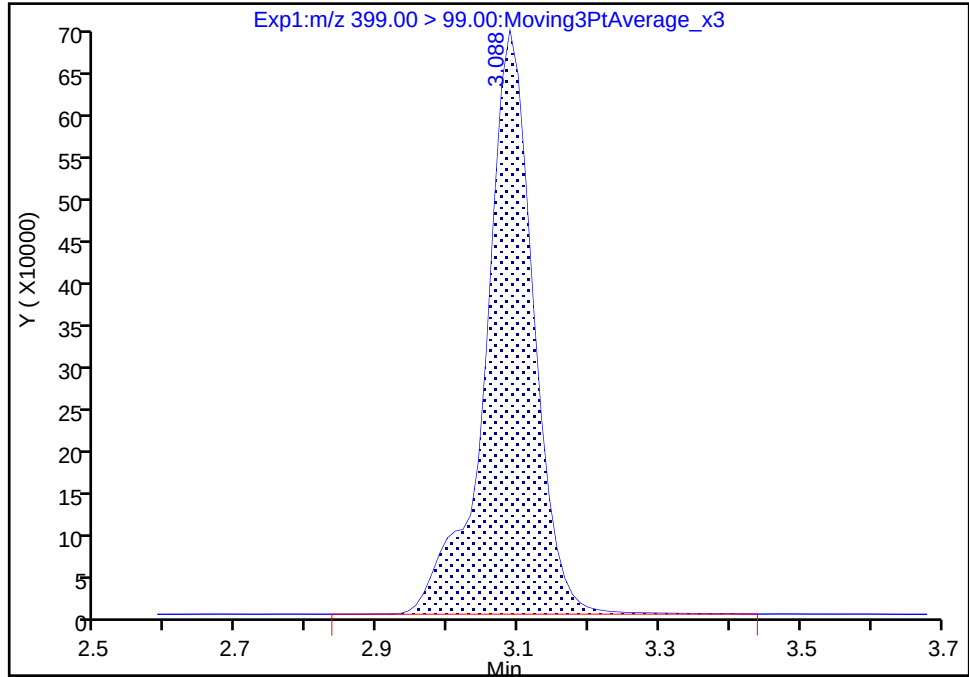
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

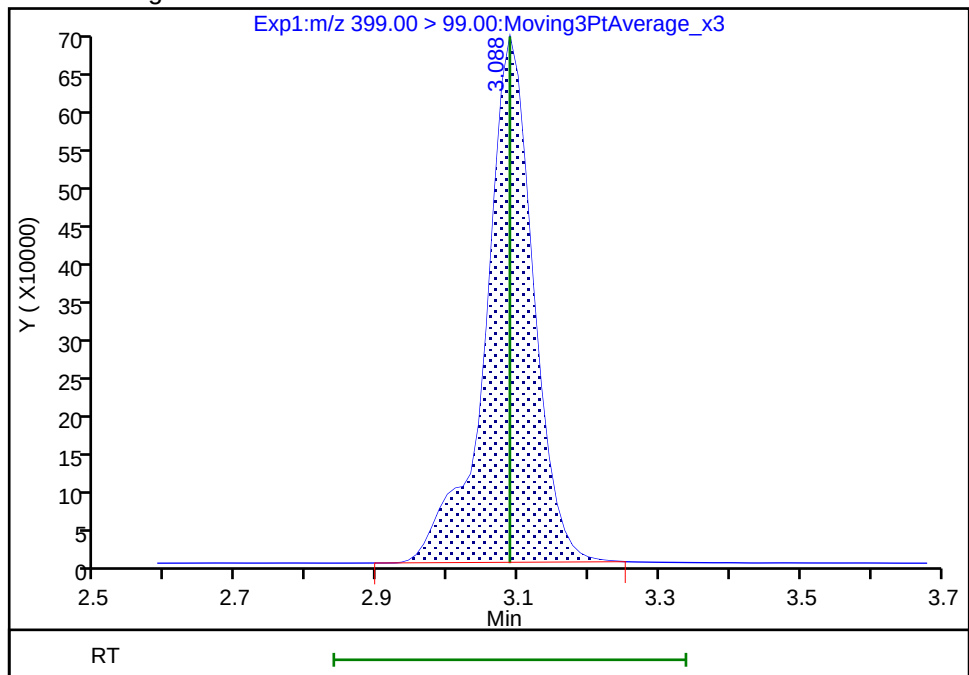
RT: 3.09
Area: 3294366
Amount: 8.540763
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3266390
Amount: 8.456920
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

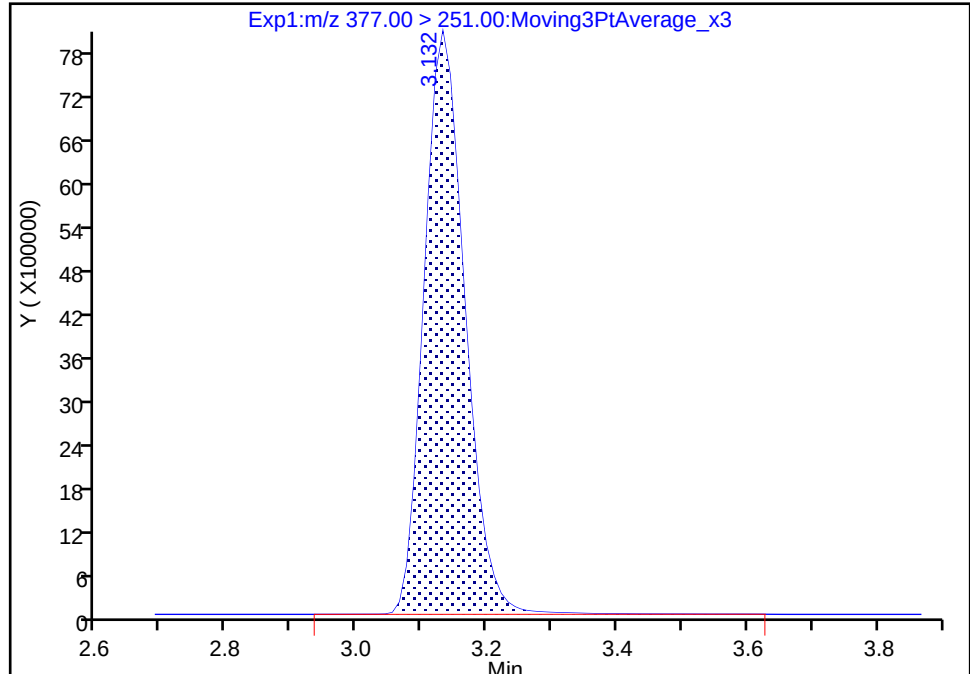
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

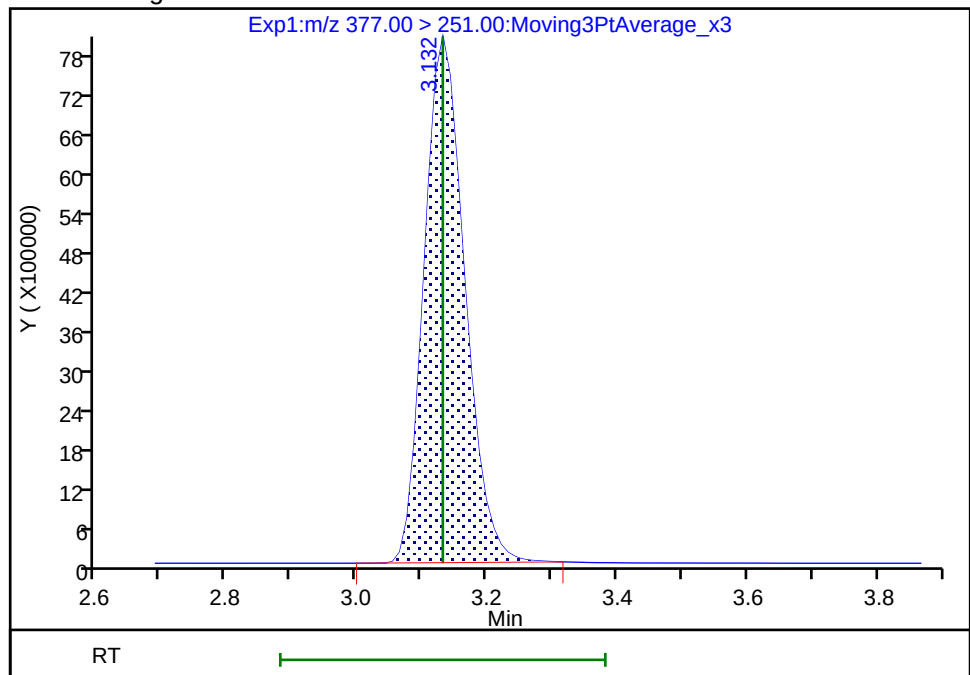
RT: 3.13
Area: 35196938
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 34921387
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

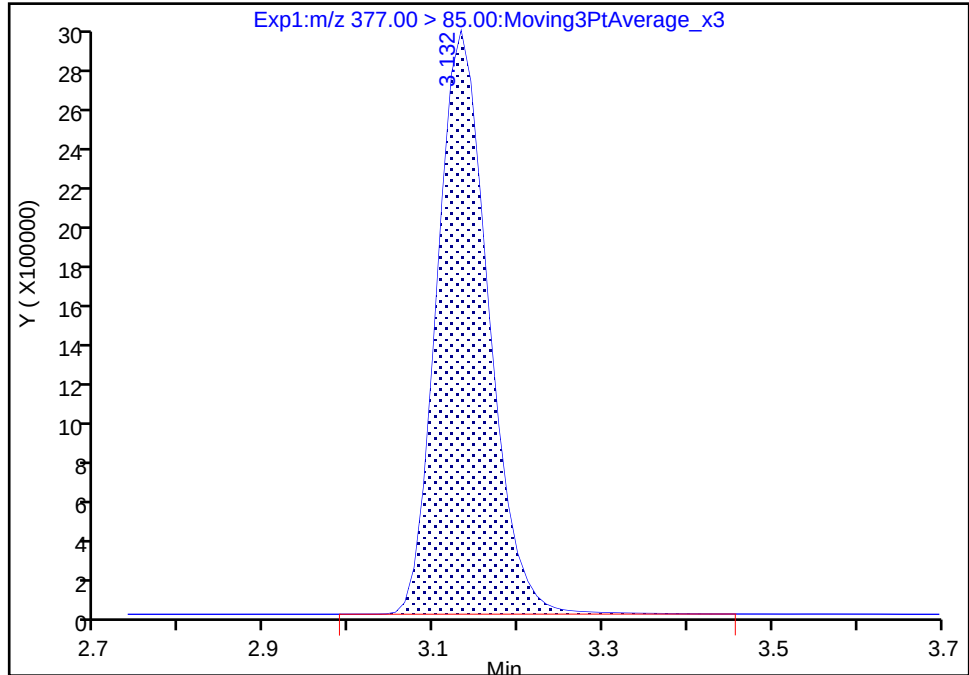
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

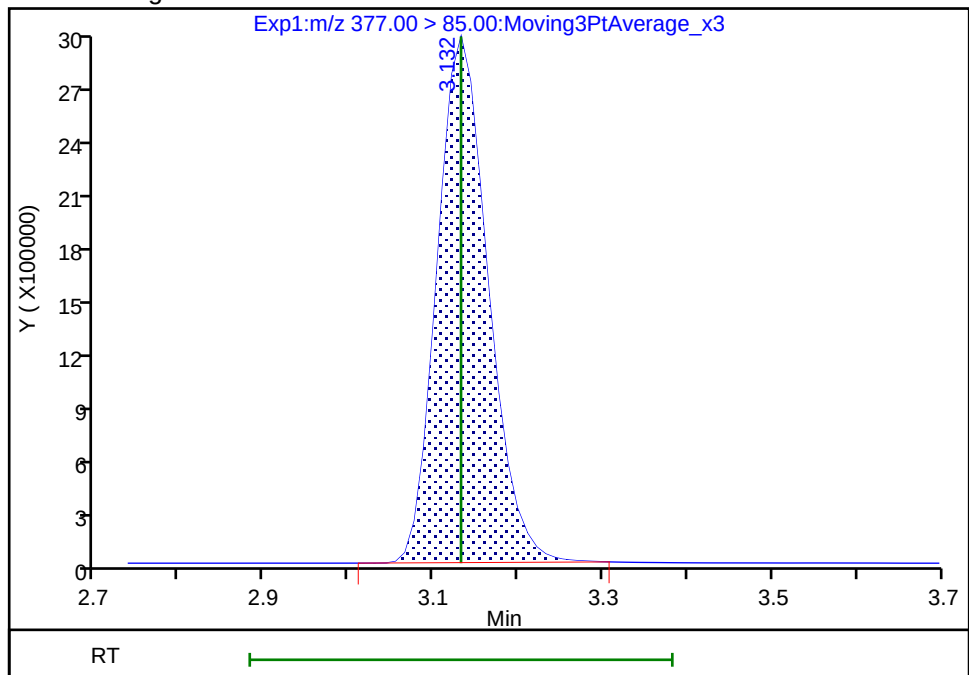
RT: 3.13
Area: 12365652
Amount: 7.677645
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 12293064
Amount: 7.625648
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 498 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

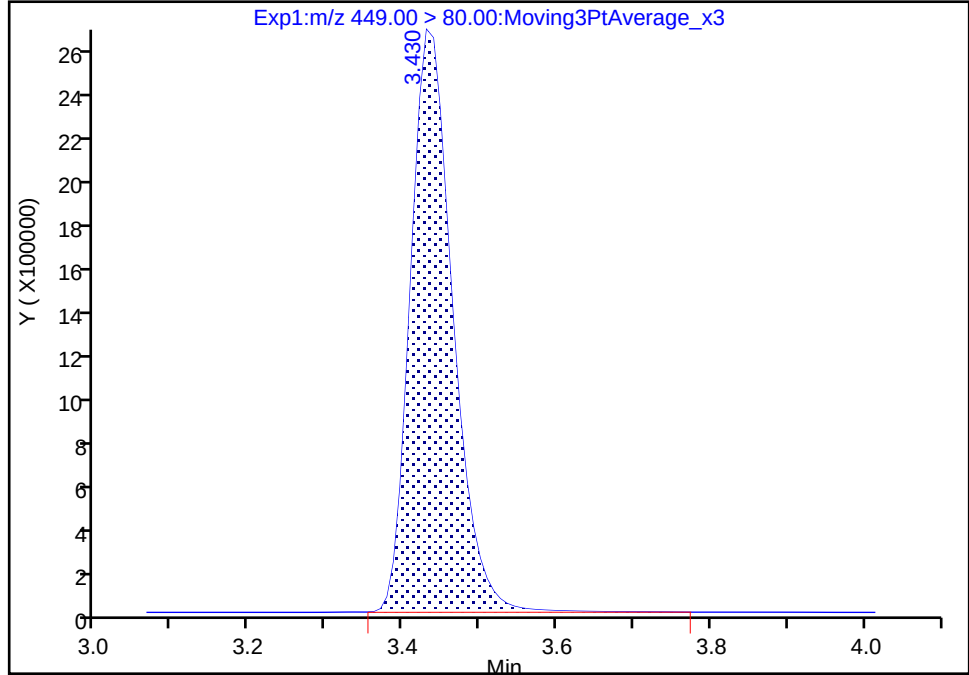
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

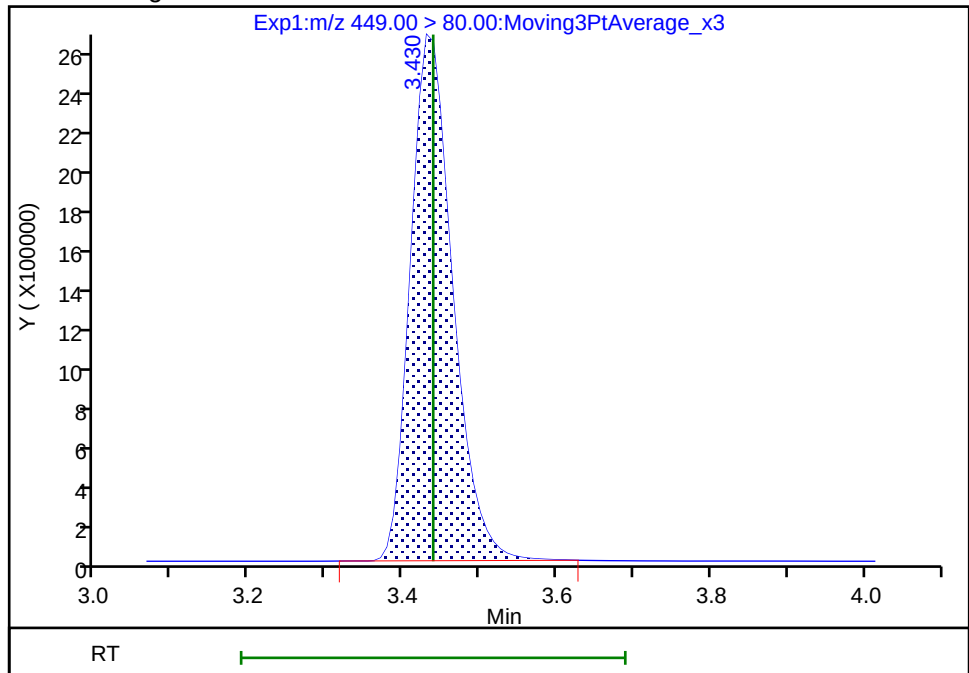
RT: 3.43
Area: 10231634
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 10171074
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

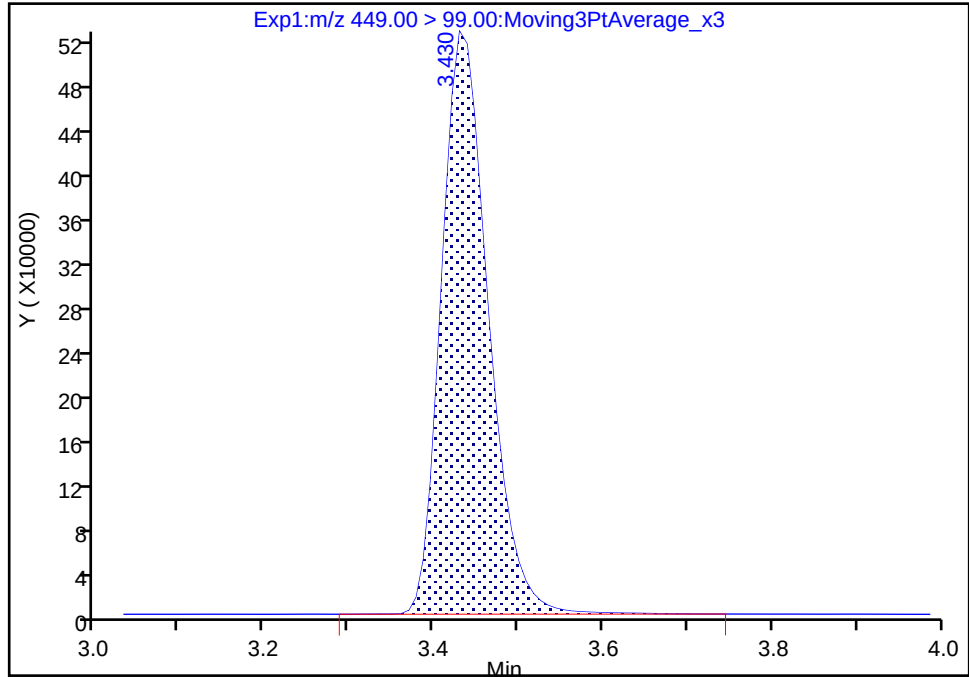
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

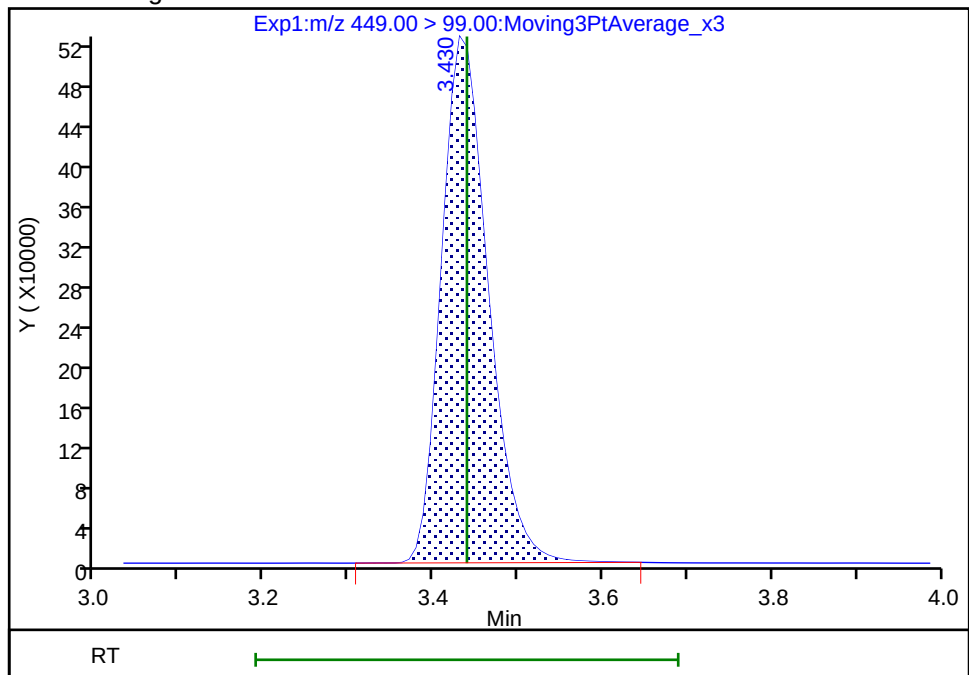
RT: 3.43
Area: 1997290
Amount: 8.801285
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1989808
Amount: 8.757178
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 500 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

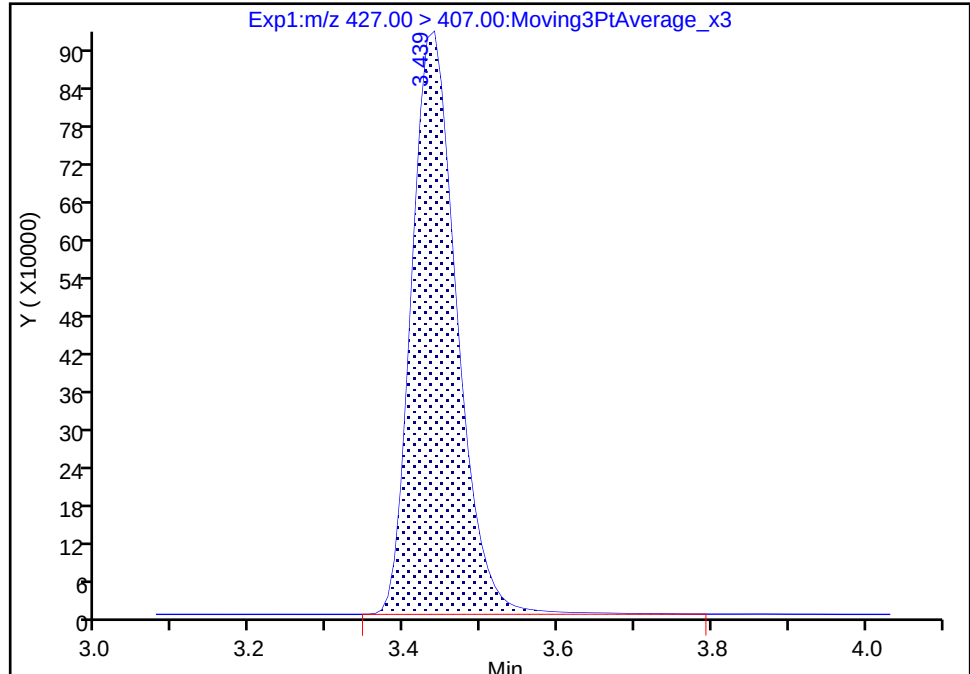
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

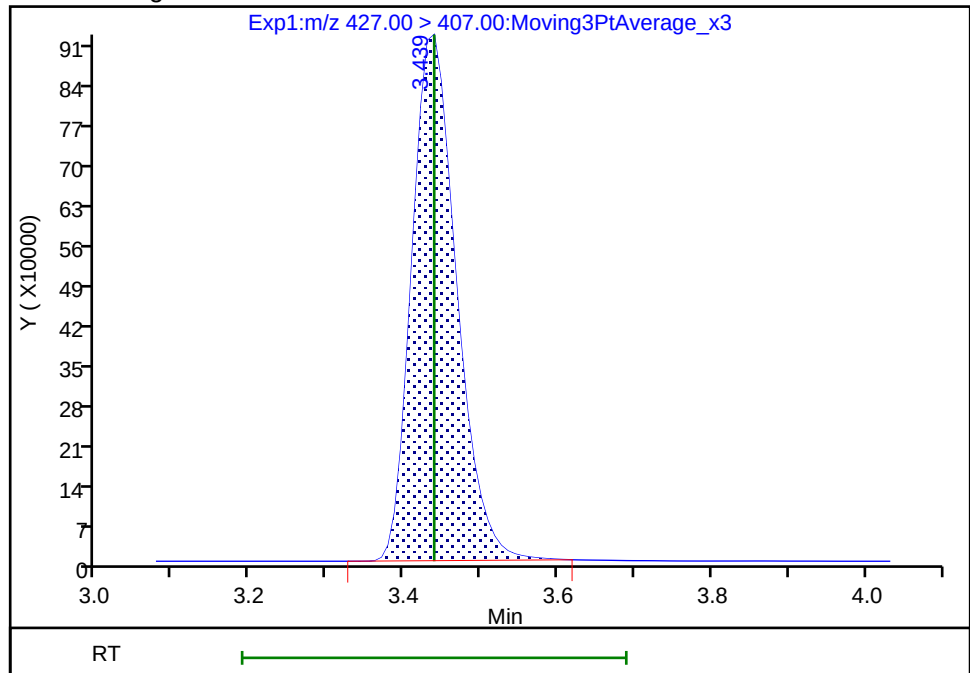
RT: 3.44
Area: 3774301
Amount: 8.926391
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3743844
Amount: 9.473646
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

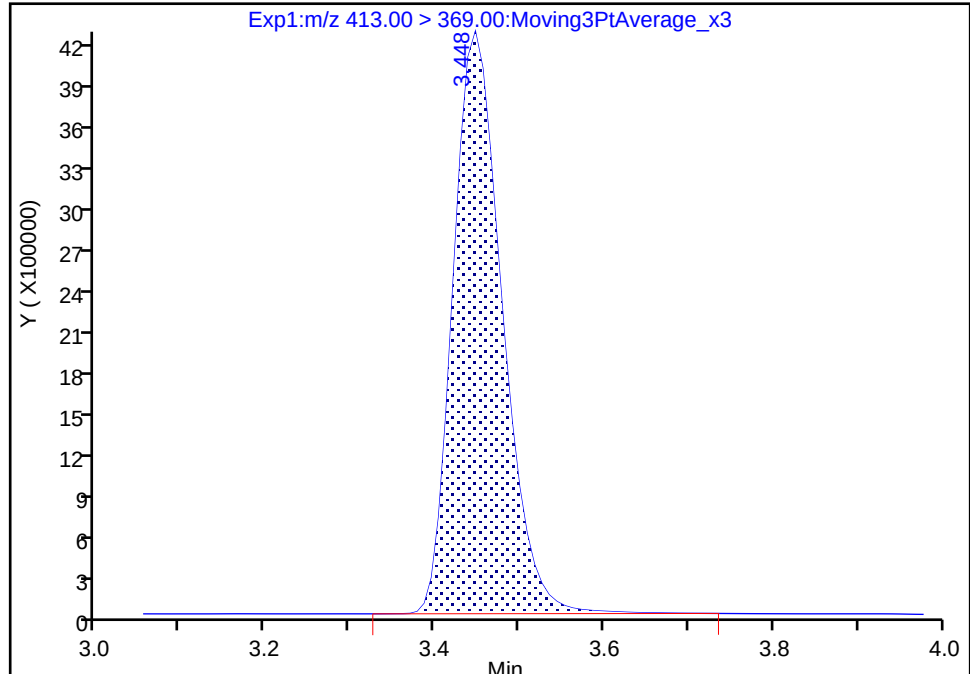
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

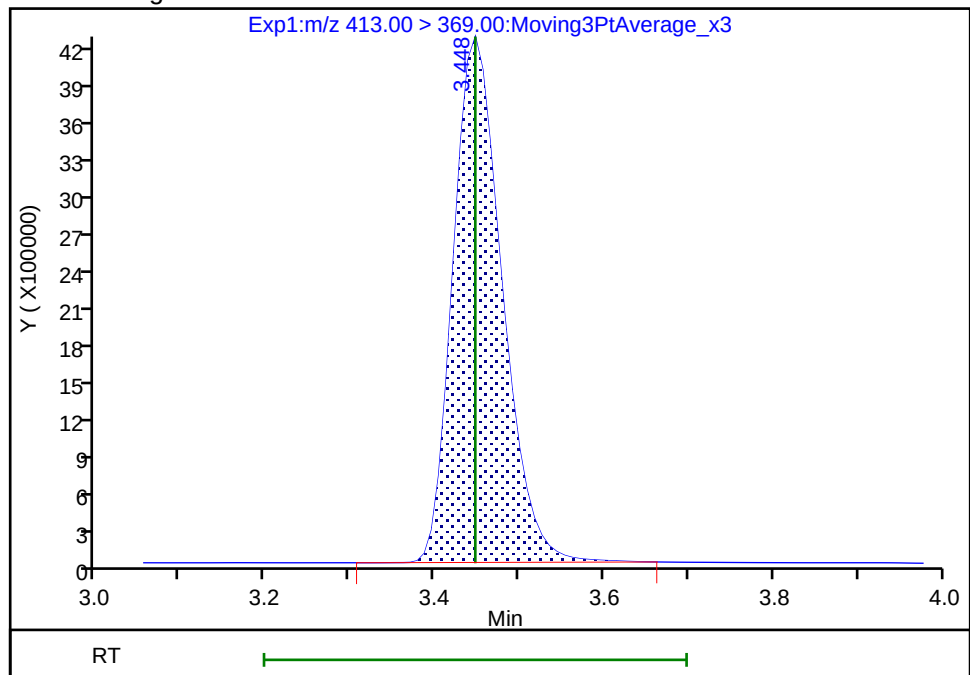
RT: 3.45
Area: 17030570
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 16977289
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

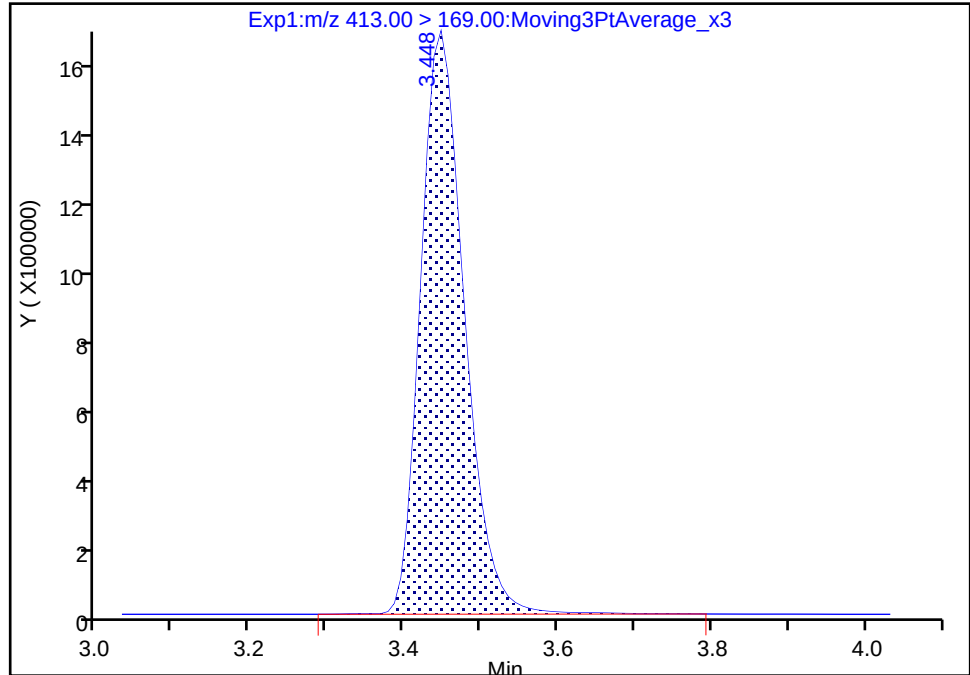
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

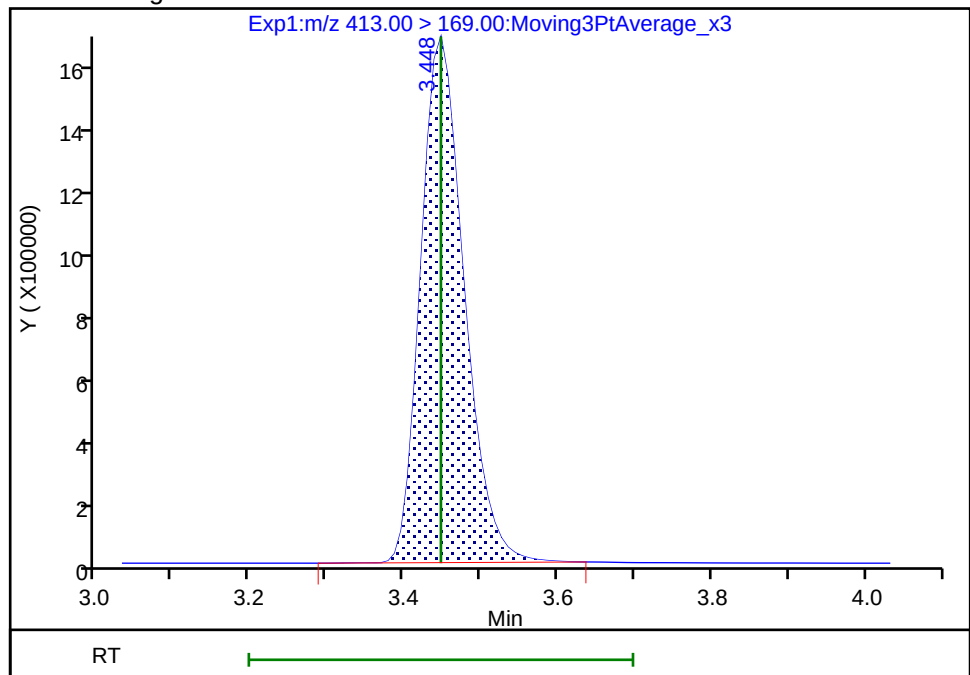
RT: 3.45
Area: 6304212
Amount: 9.031728
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 6260421
Amount: 9.007714
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:25:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

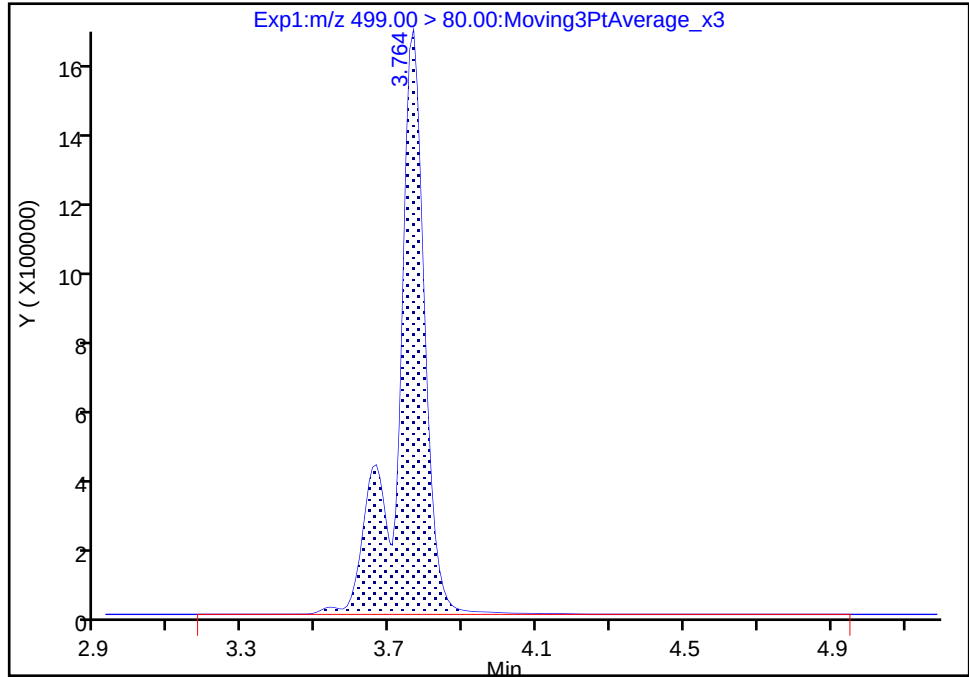
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

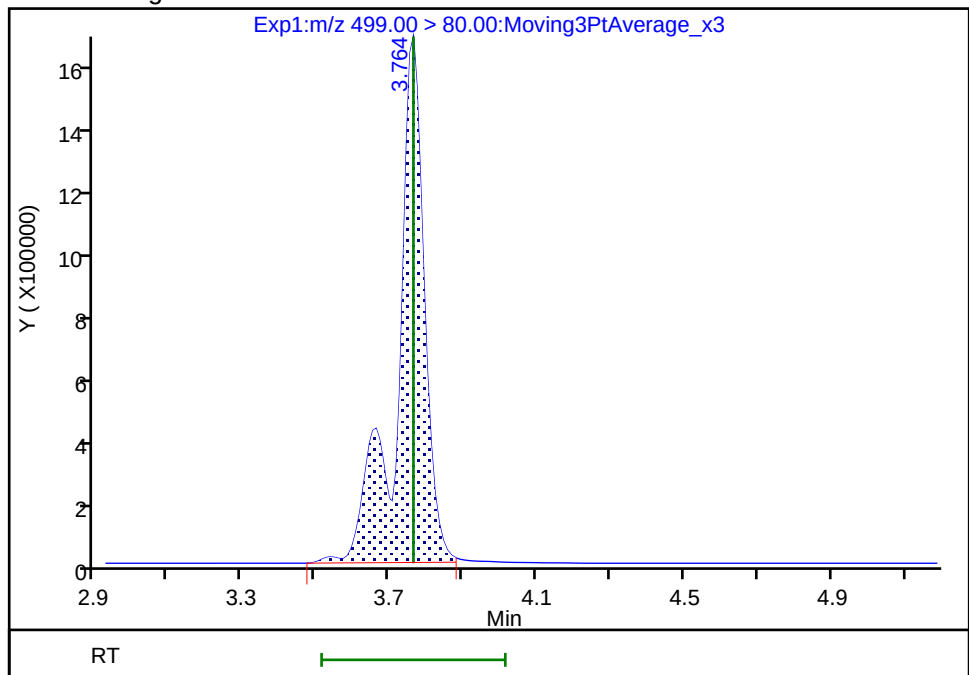
RT: 3.76
Area: 8658897
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 8534676
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

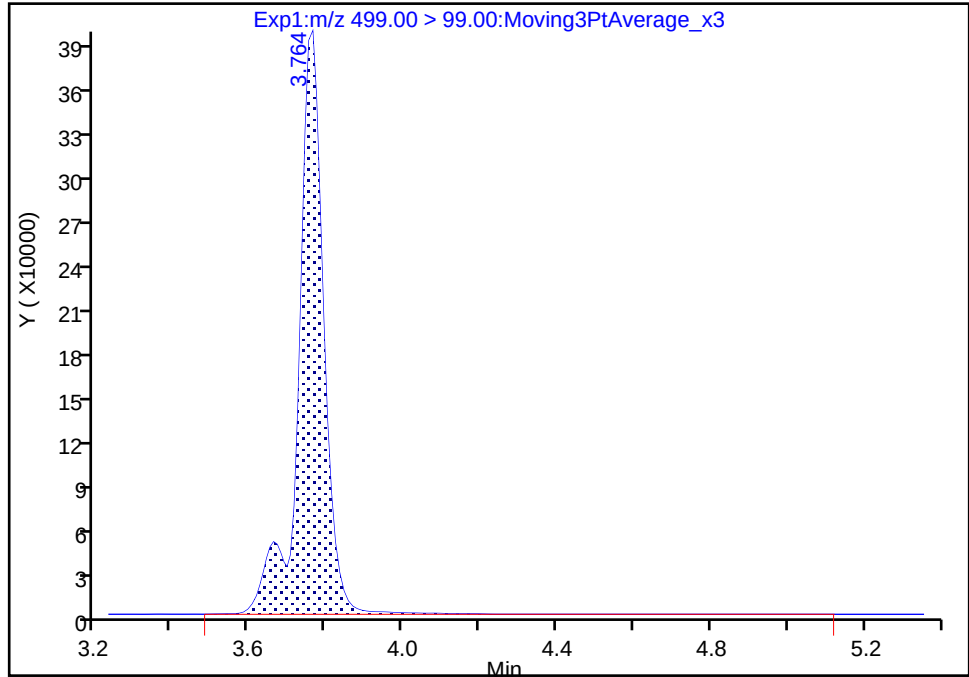
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

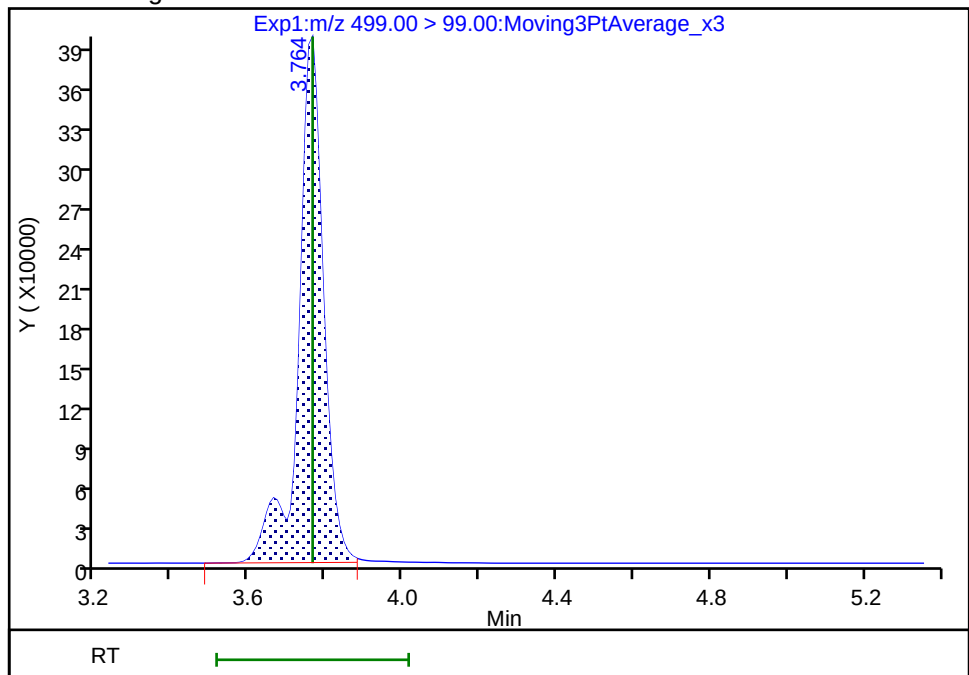
RT: 3.76
Area: 1795864
Amount: 8.543354
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1770034
Amount: 8.439368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

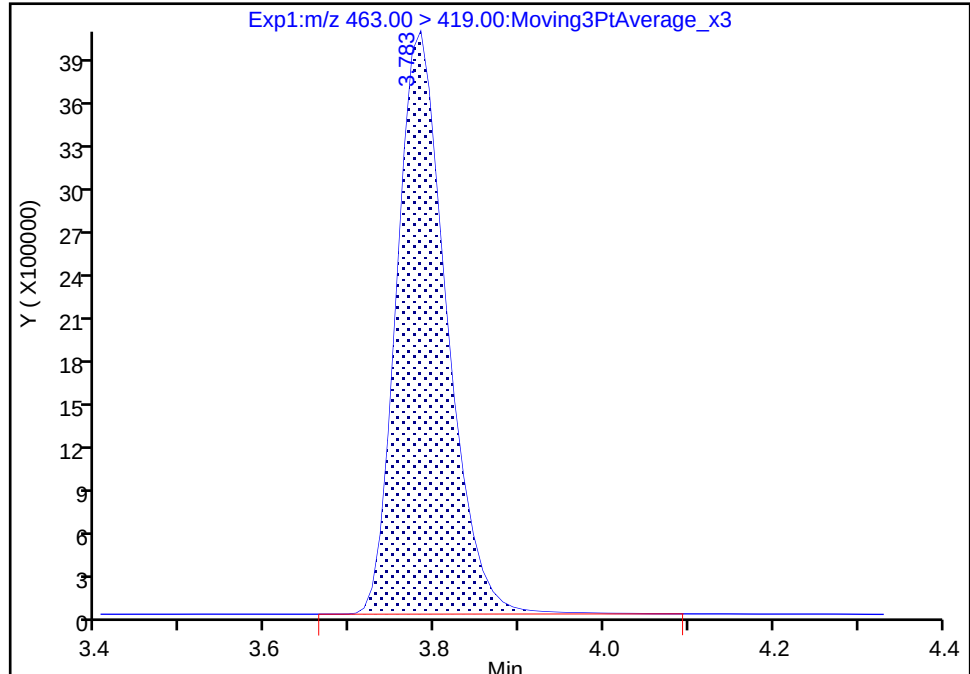
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

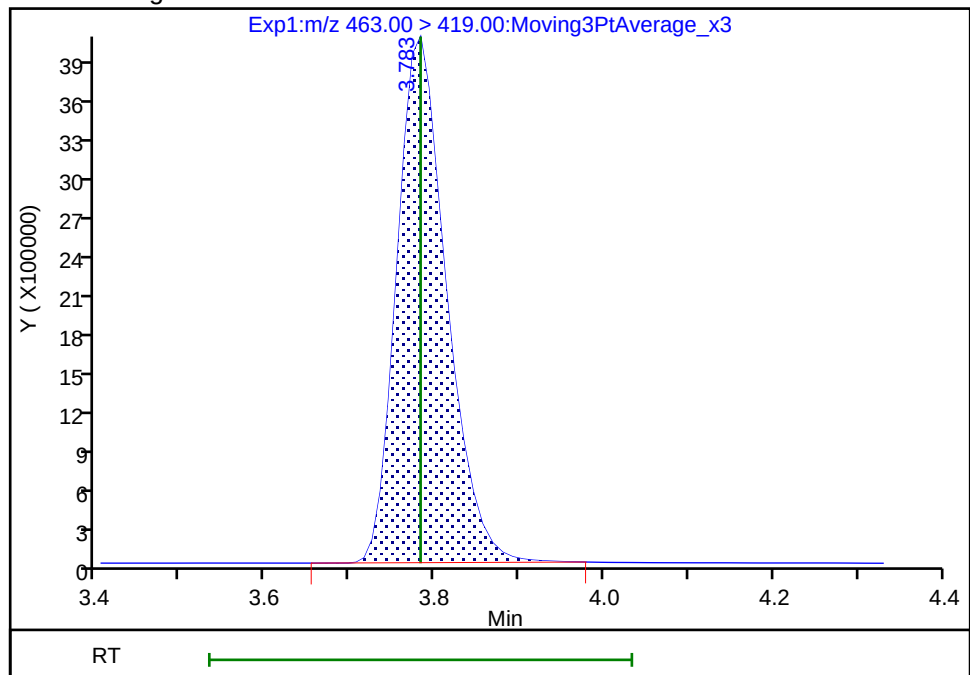
RT: 3.78
Area: 16420625
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 16342622
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

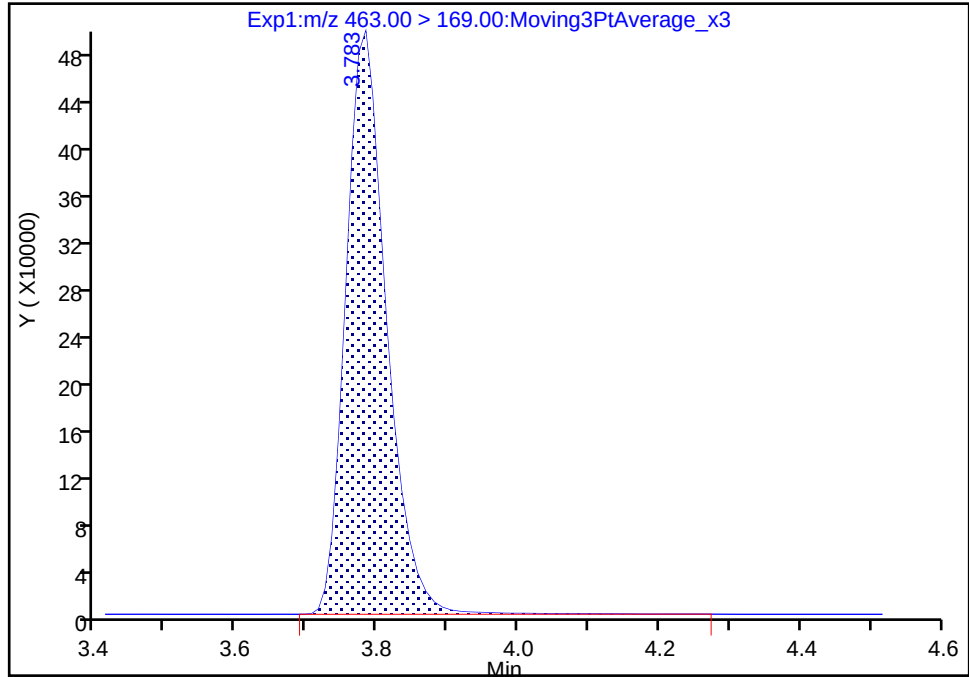
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

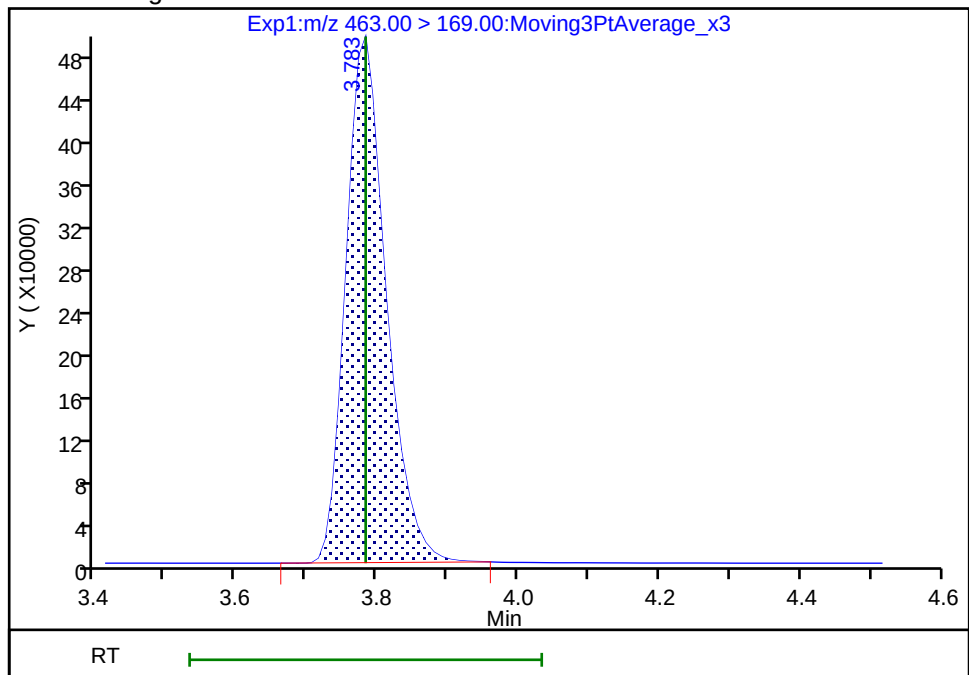
RT: 3.78
Area: 1954132
Amount: 9.401886
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 1938179
Amount: 9.364194
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

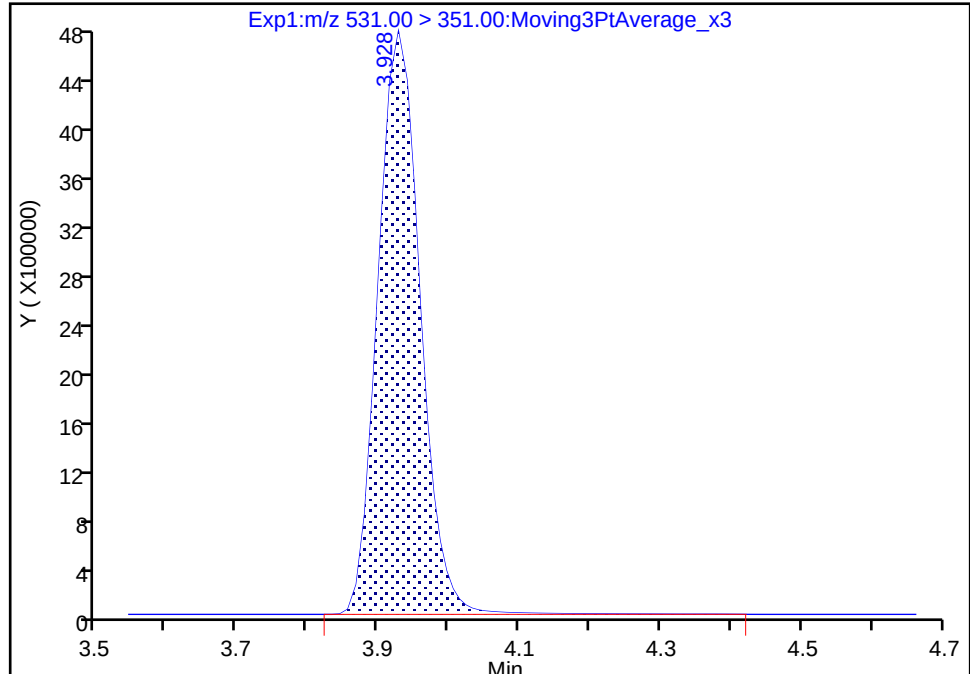
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

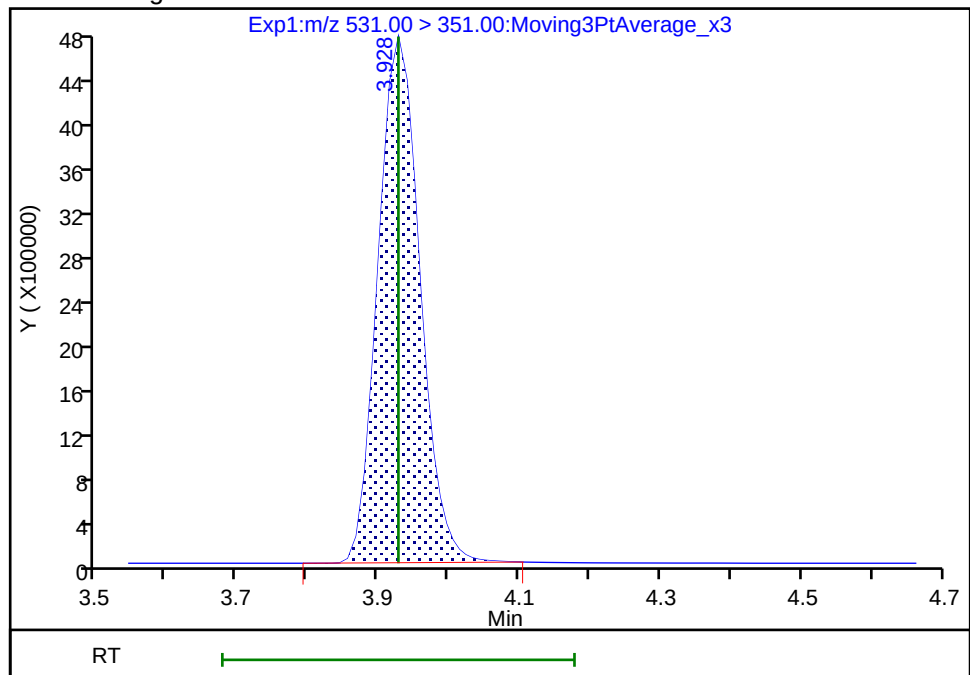
RT: 3.93
Area: 19643577
Amount: 8.453015
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 19485090
Amount: 8.395054
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

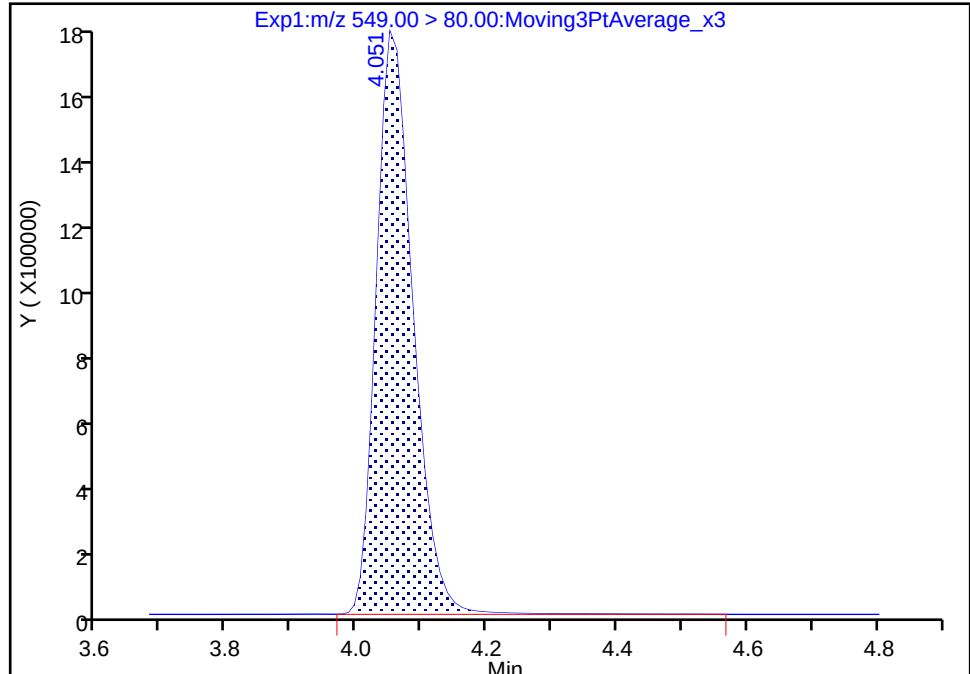
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

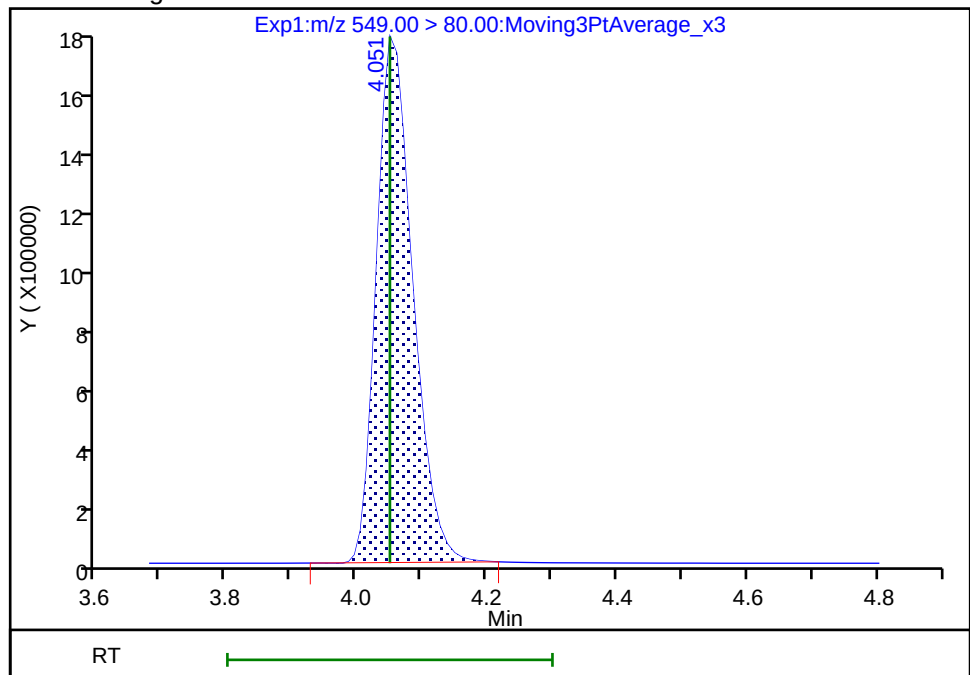
RT: 4.05
Area: 6901061
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 6831873
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

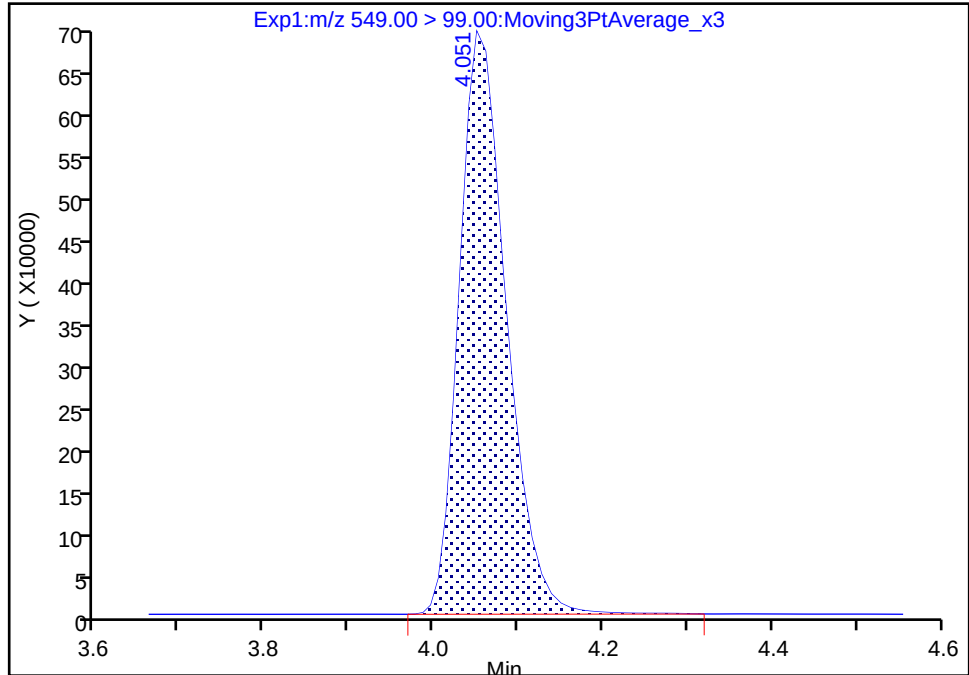
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

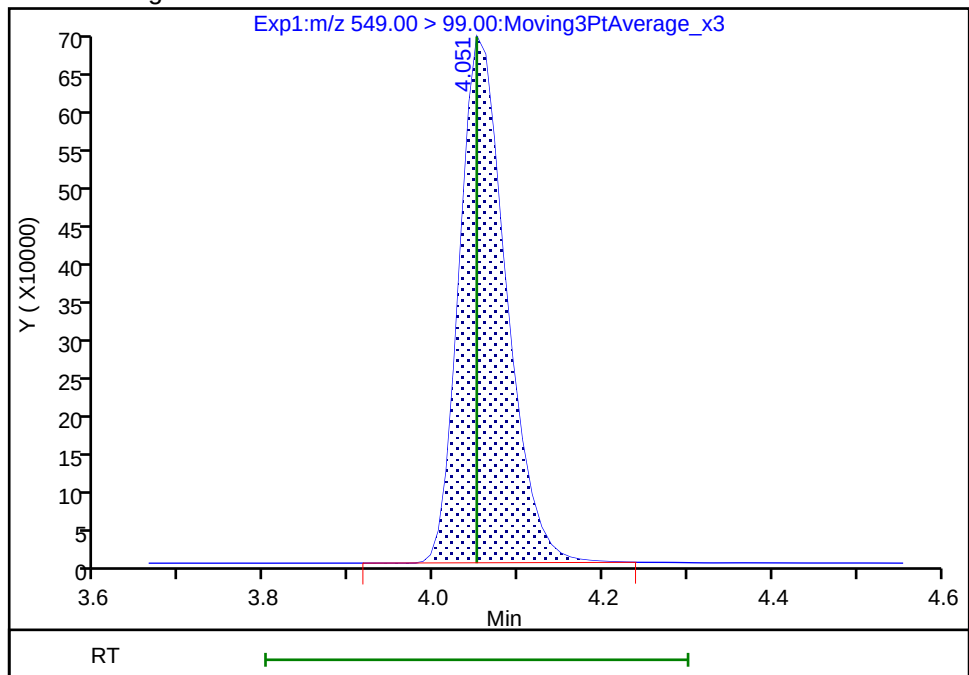
RT: 4.05
Area: 2665260
Amount: 9.026930
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 2652769
Amount: 8.950492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:26:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

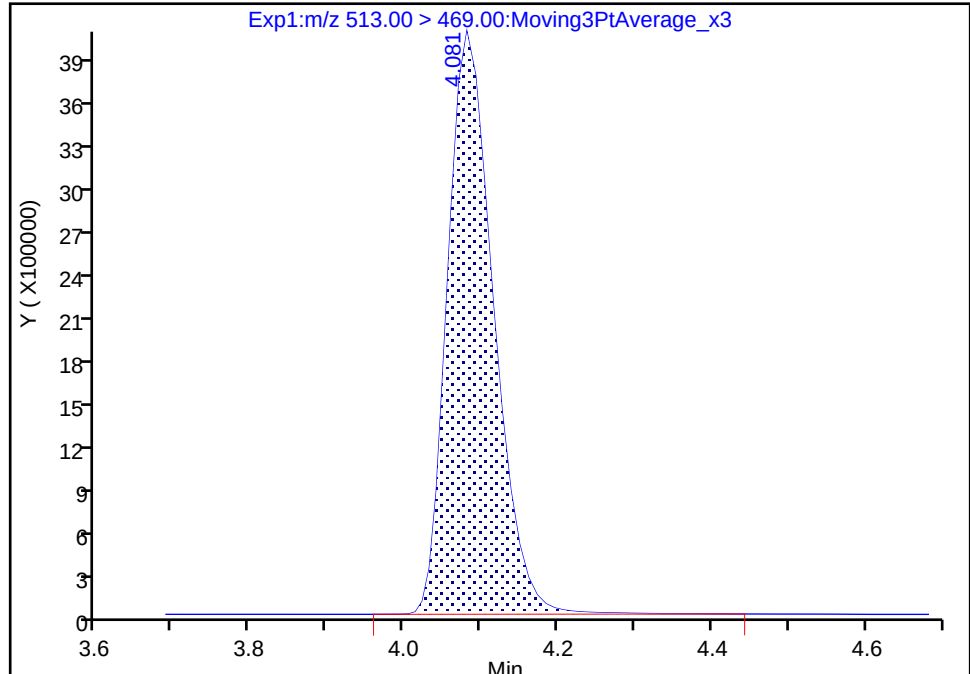
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

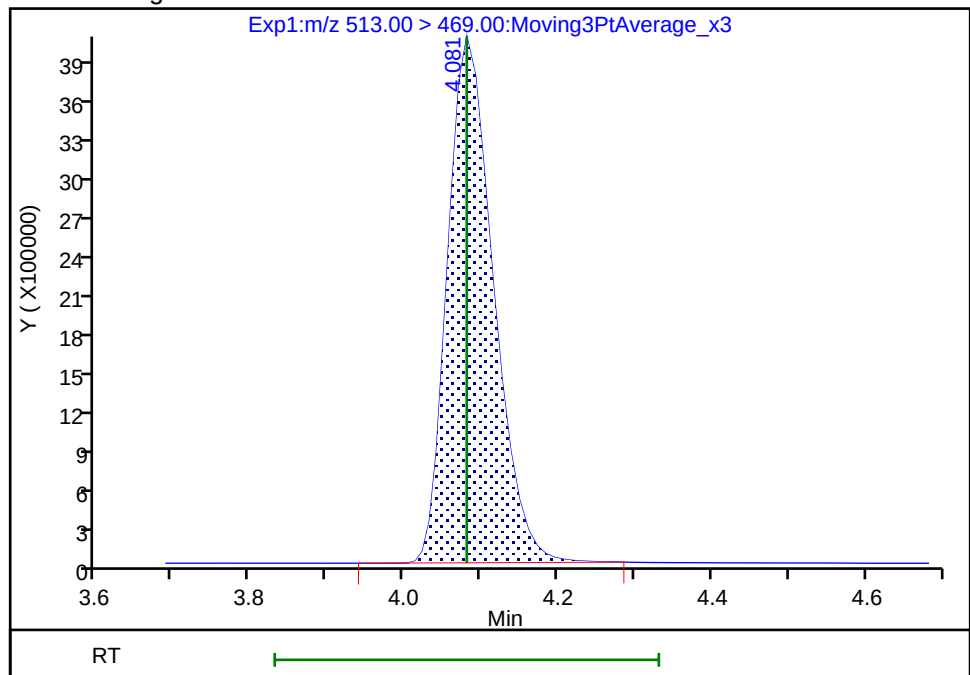
RT: 4.08
Area: 16777487
Amount: 8.666535
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 16688874
Amount: 8.627343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

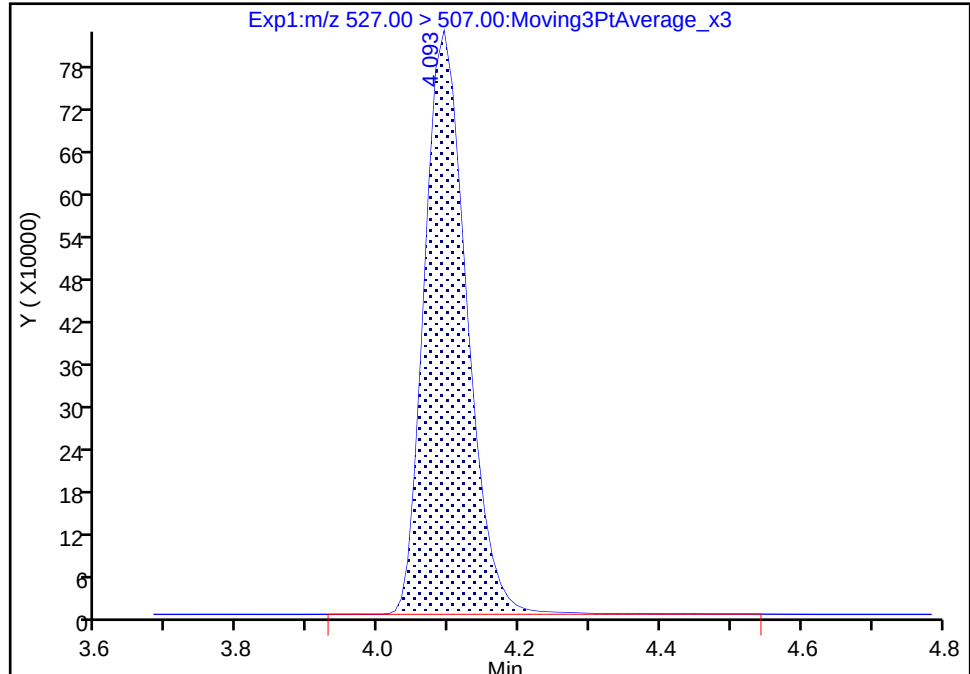
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

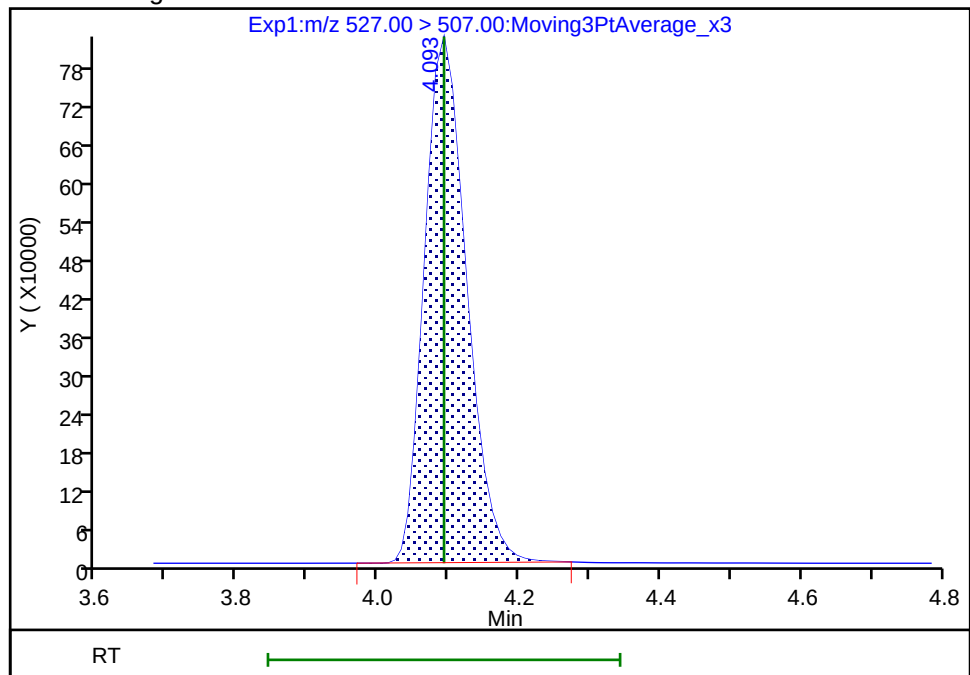
RT: 4.09
Area: 3456510
Amount: 9.221521
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 3431863
Amount: 9.166252
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

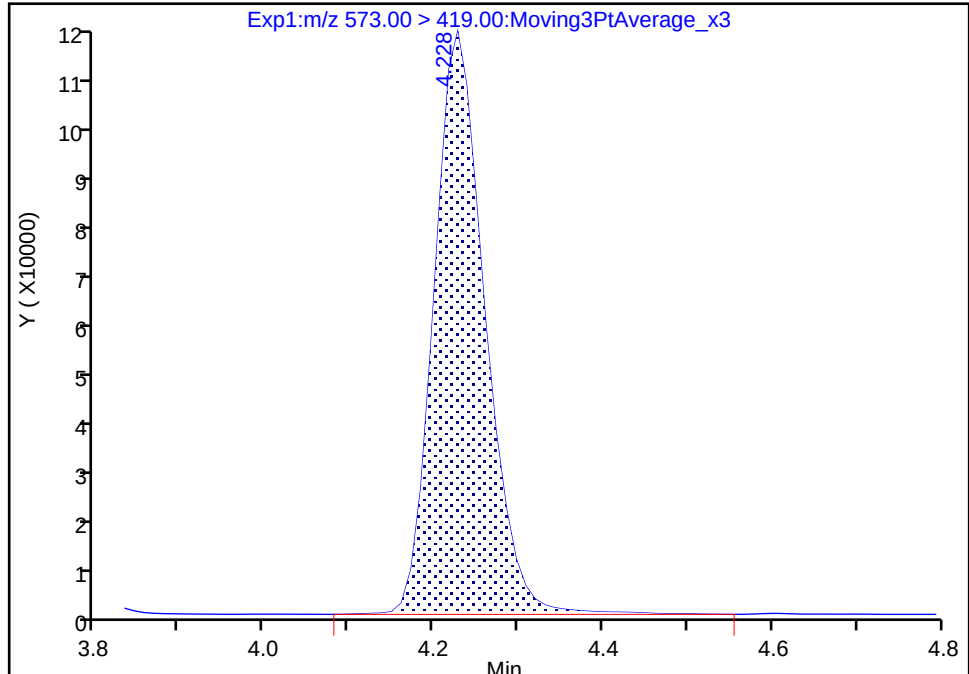
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

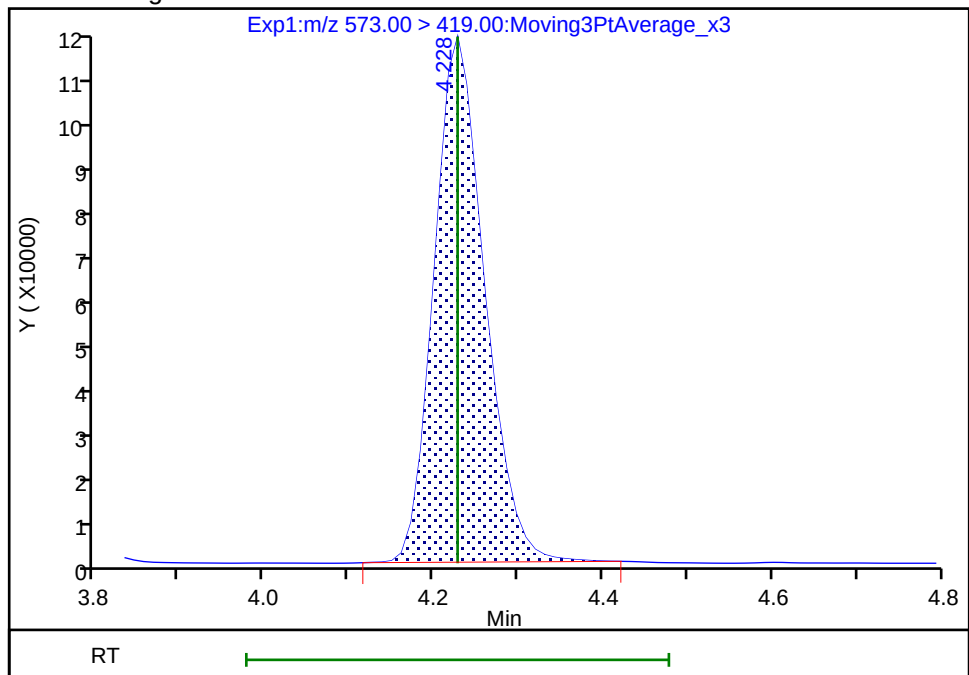
RT: 4.23
Area: 484787
Amount: 1.385223
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 478582
Amount: 1.370733
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

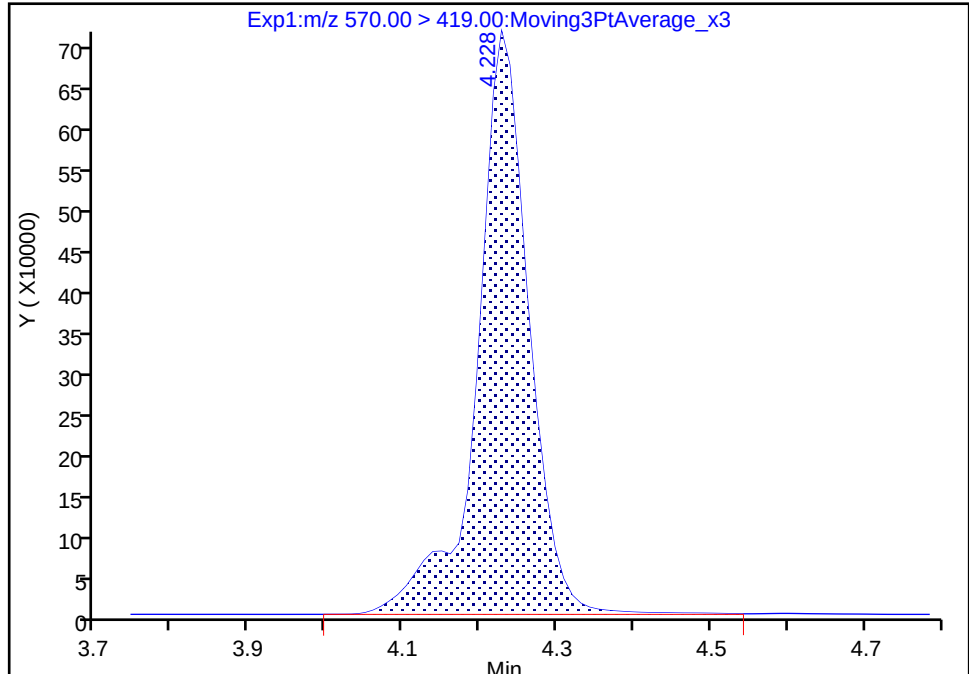
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

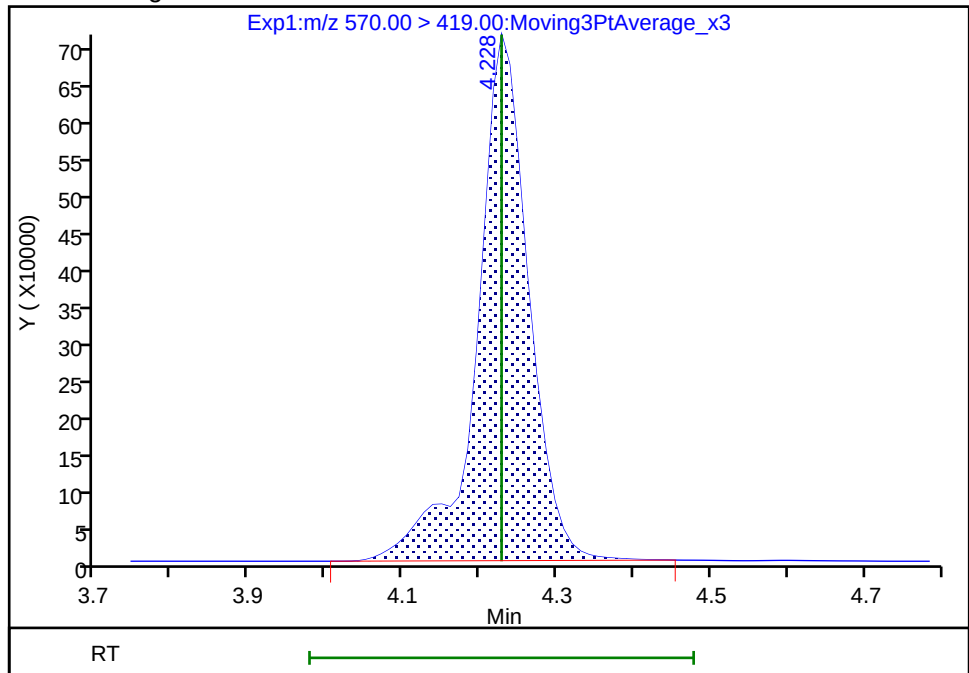
RT: 4.23
Area: 3324827
Amount: 9.466992
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 3297027
Amount: 9.998842
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

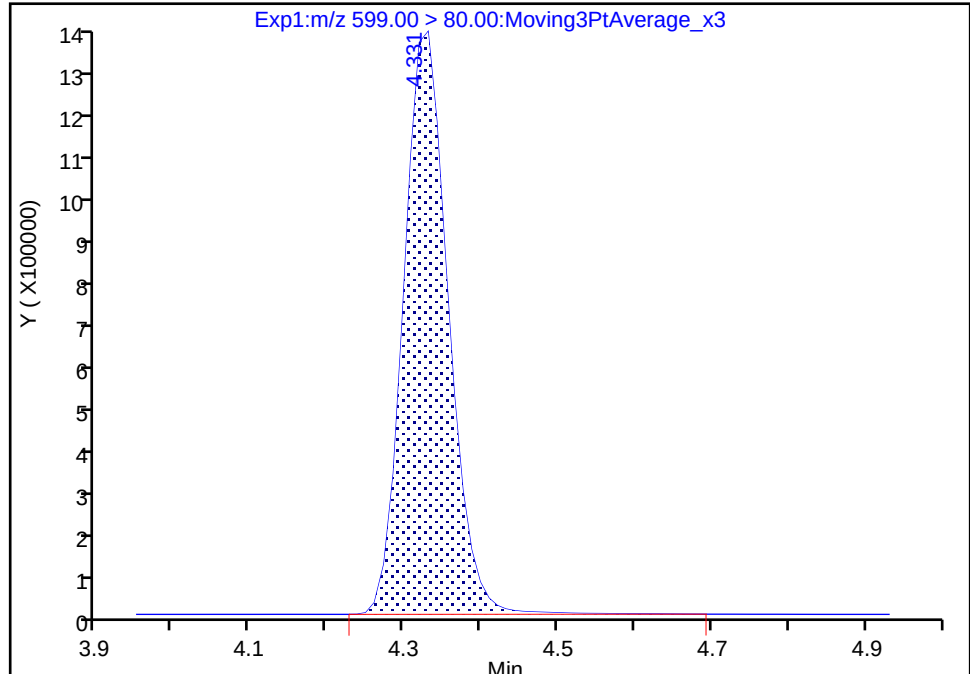
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

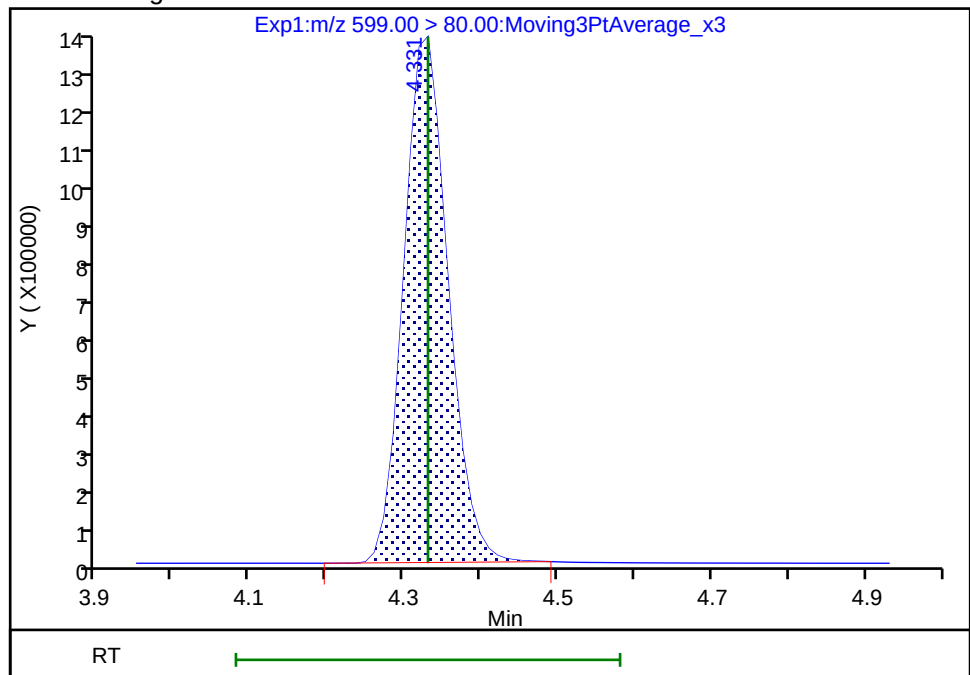
RT: 4.33
Area: 5598329
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 5548668
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

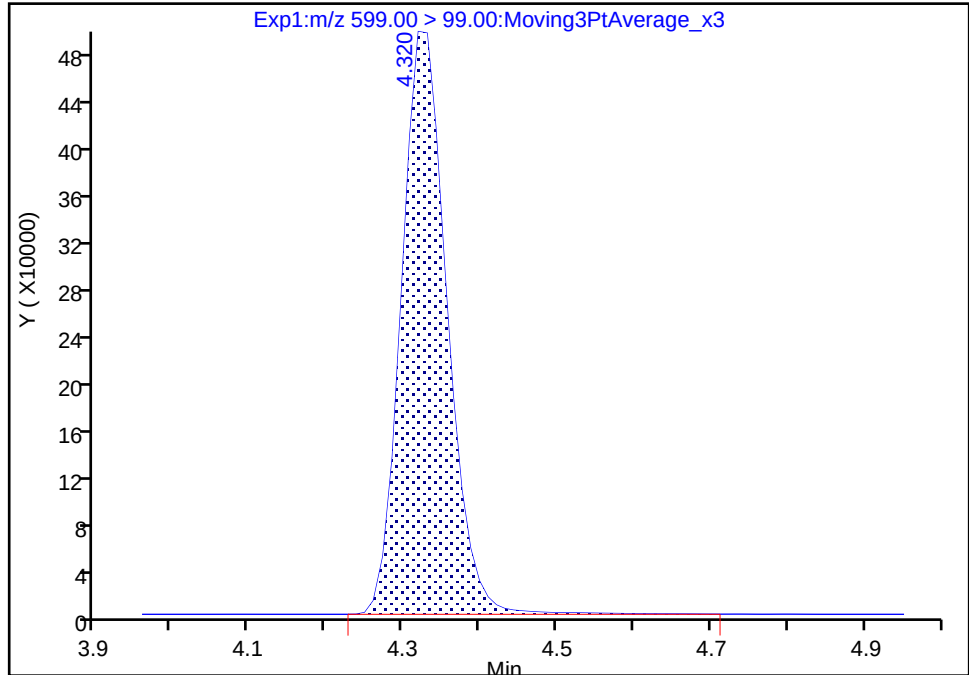
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

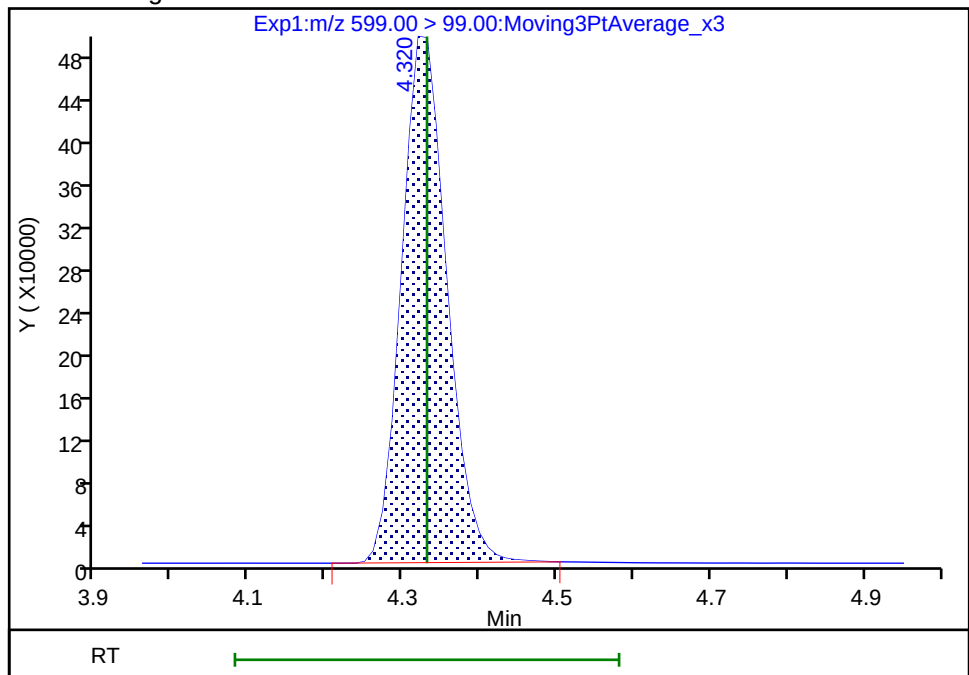
RT: 4.32
Area: 2054689
Amount: 9.275714
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 2036543
Amount: 9.206529
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

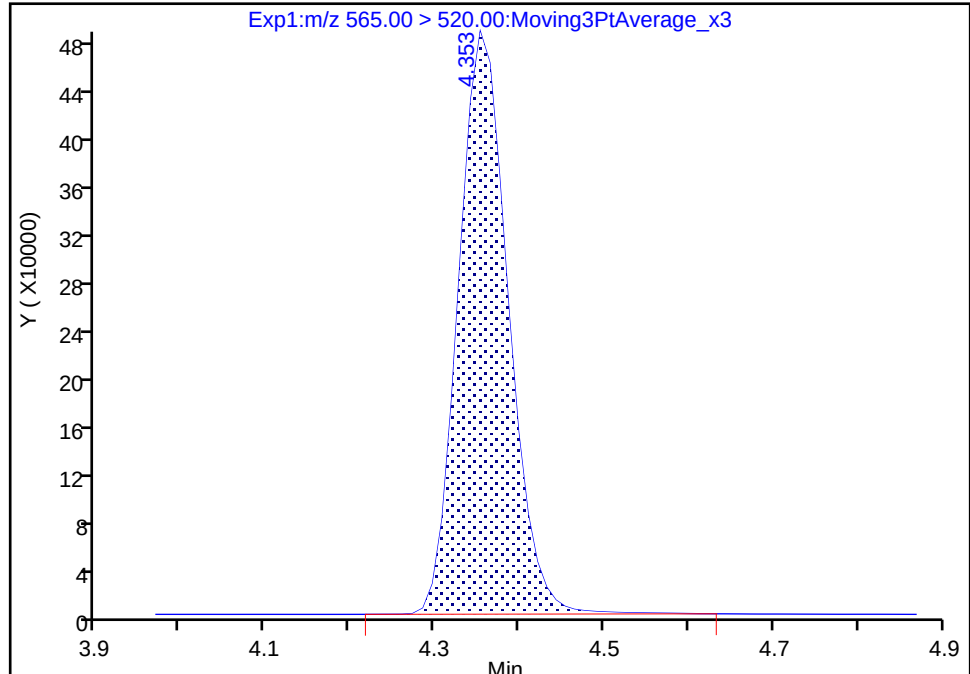
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

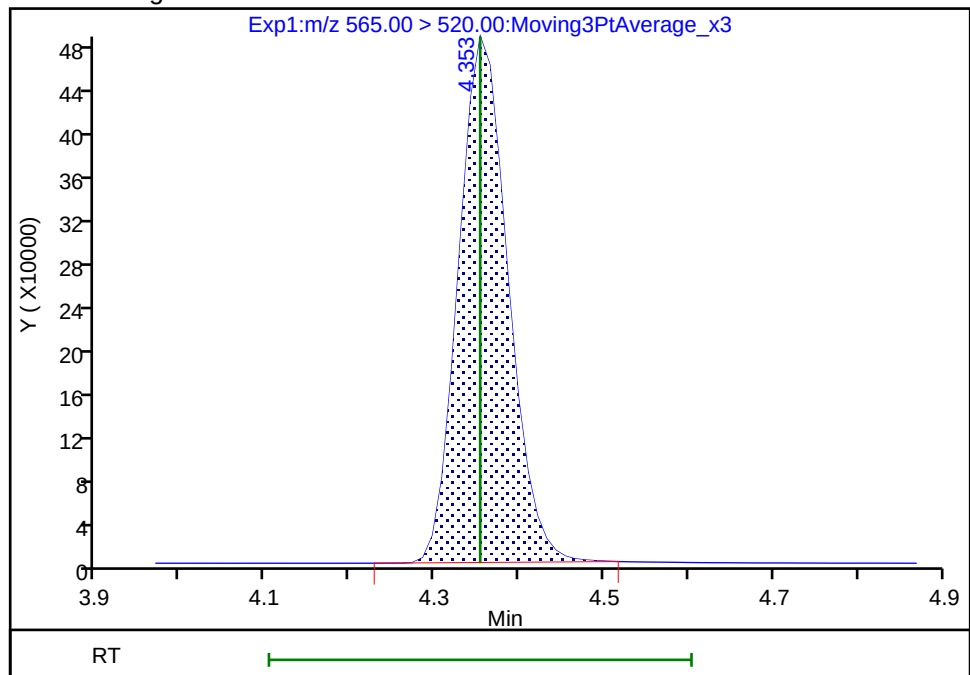
RT: 4.35
Area: 1981457
Amount: 1.260398
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1967361
Amount: 1.252929
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

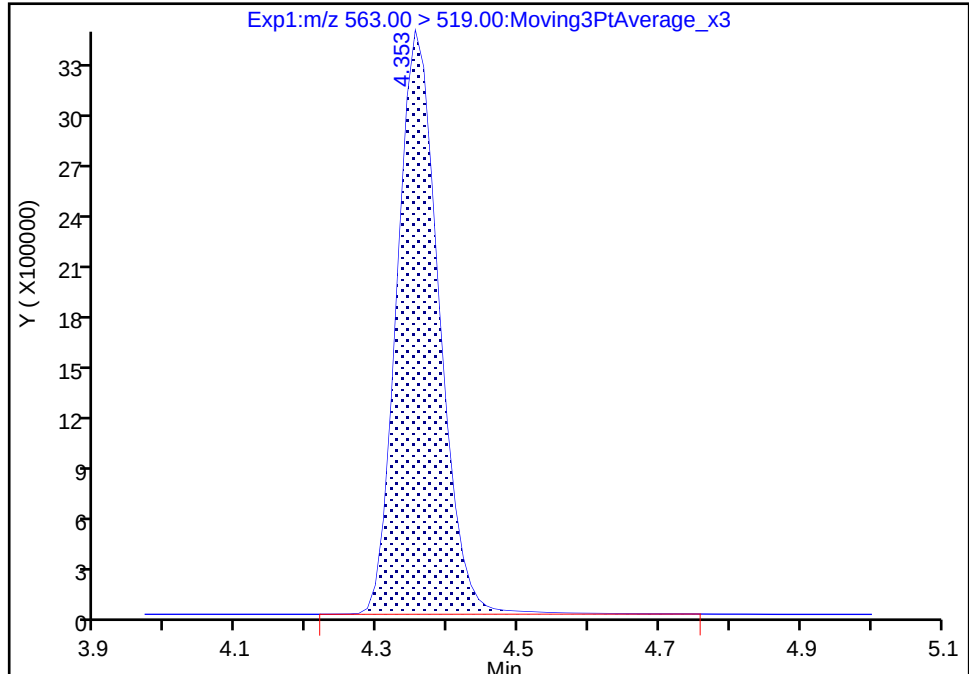
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

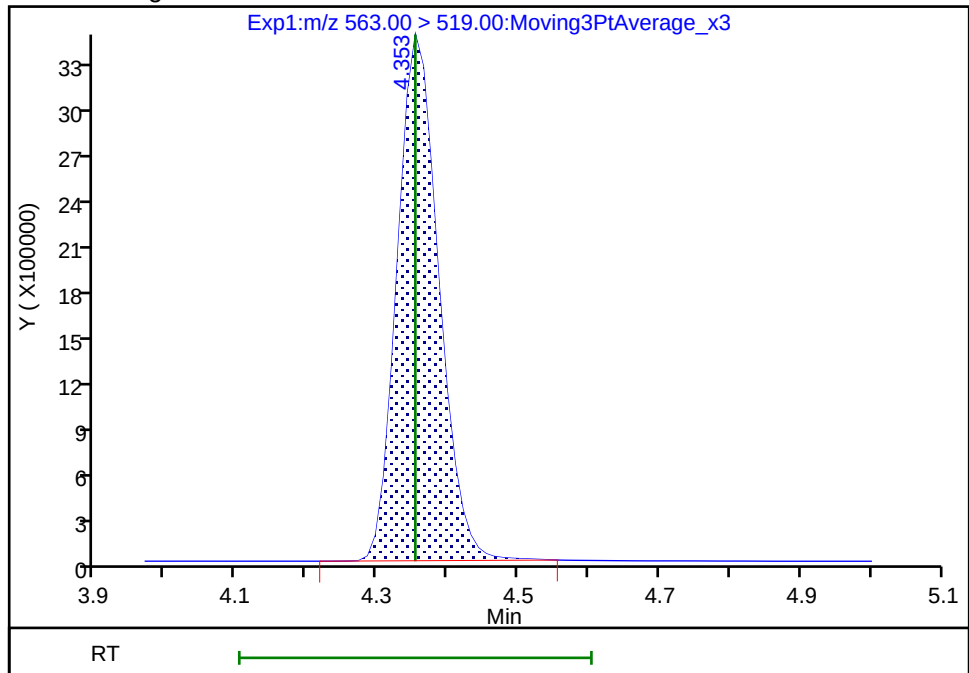
RT: 4.35
Area: 14261306
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 14168517
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

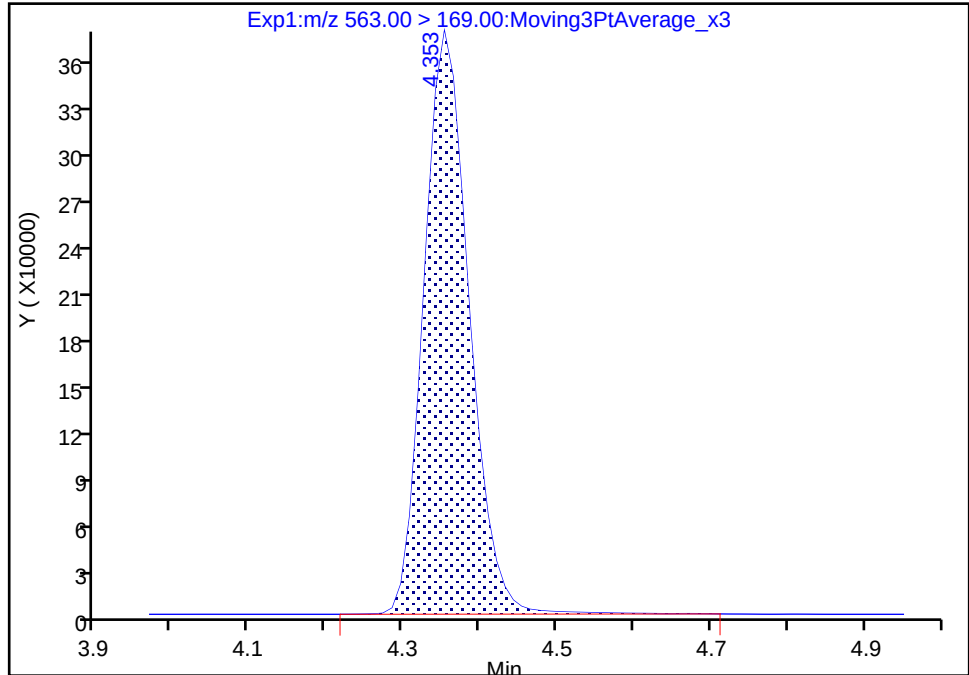
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

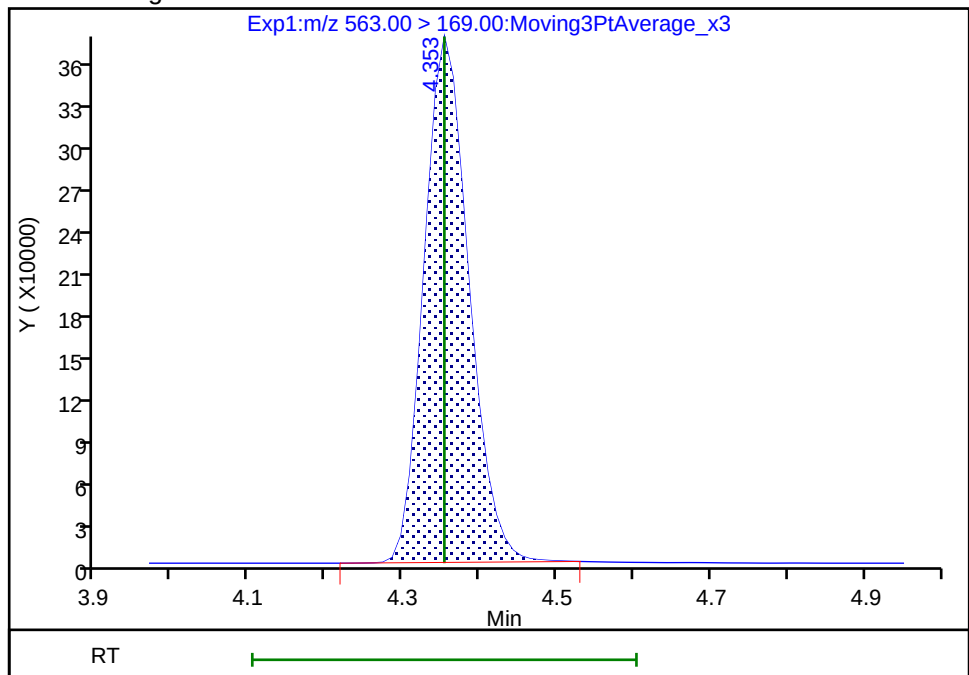
RT: 4.35
Area: 1516832
Amount: 8.982281
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1502685
Amount: 8.932539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

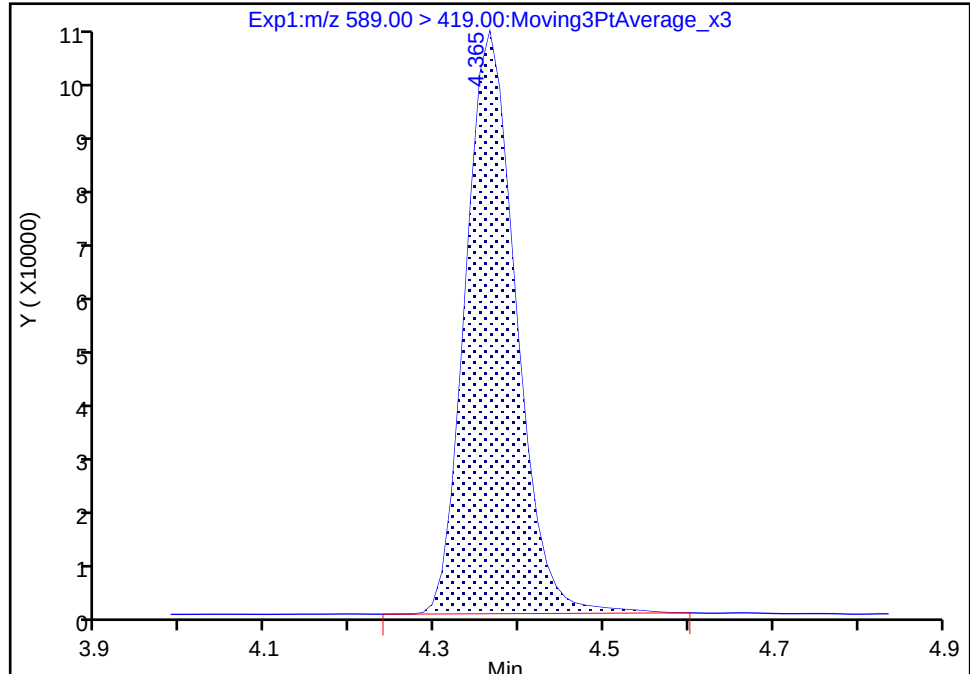
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

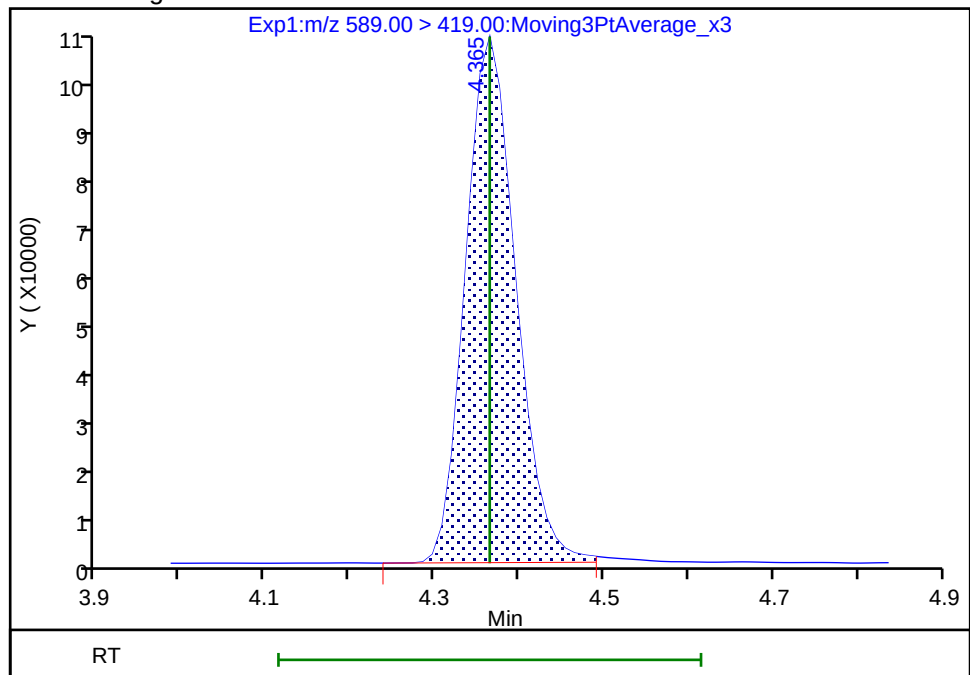
RT: 4.36
Area: 447944
Amount: 1.301468
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 444955
Amount: 1.294283
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

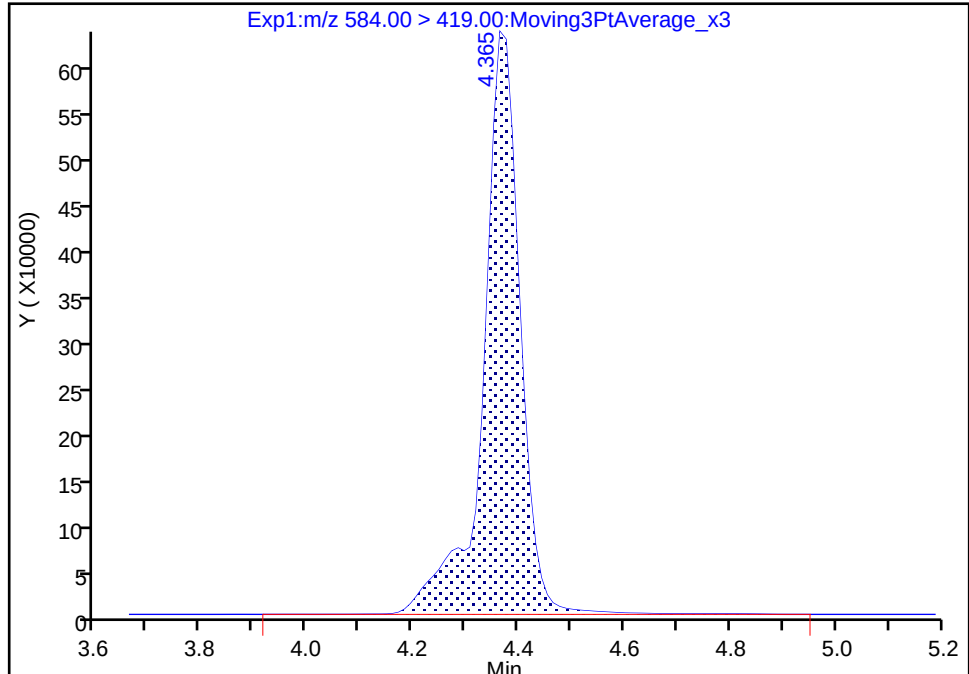
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

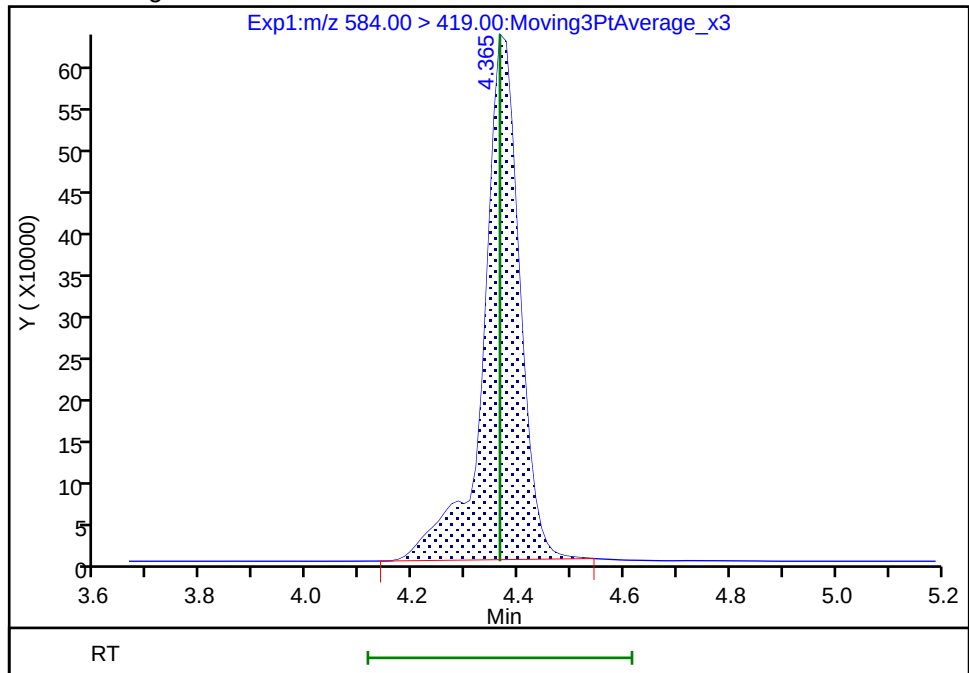
RT: 4.36
Area: 3053897
Amount: 9.498844
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 2992748
Amount: 9.391160
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:27:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

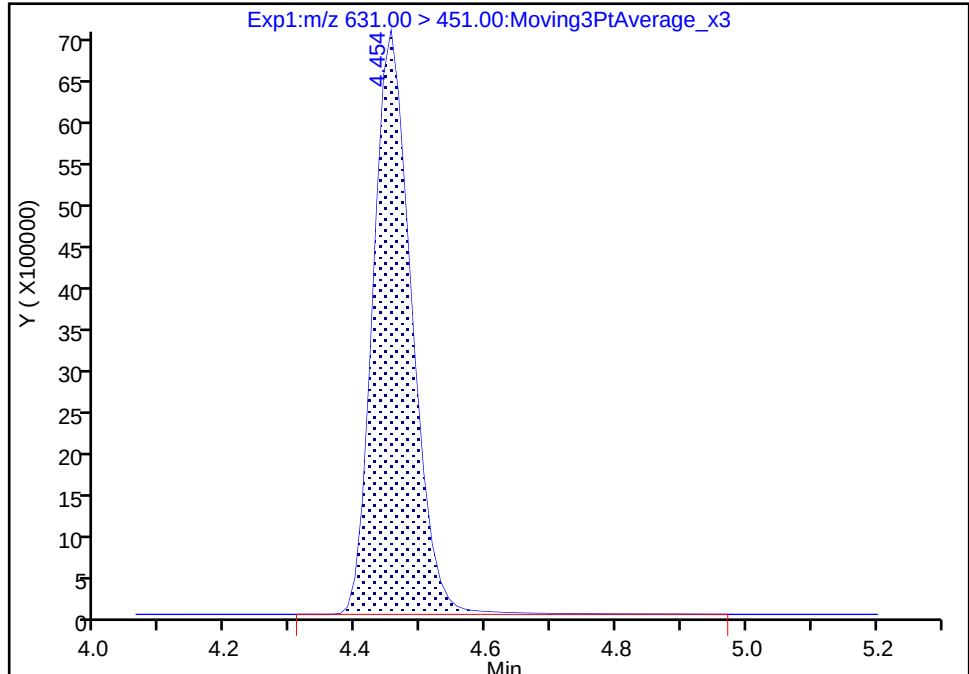
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

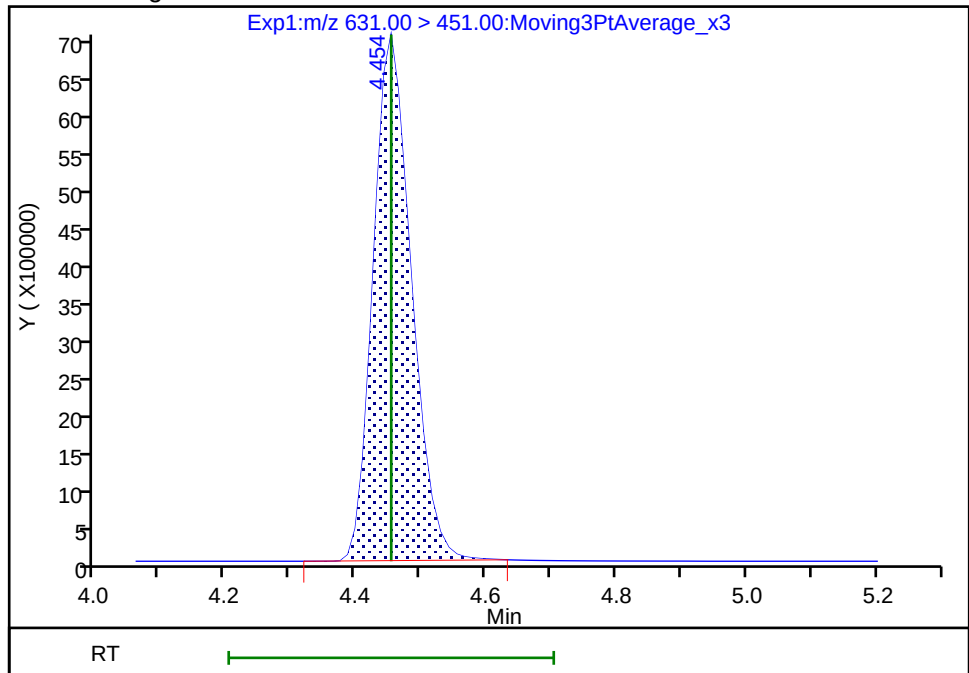
RT: 4.45
Area: 28876632
Amount: 8.059383
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 28587798
Amount: 7.990166
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

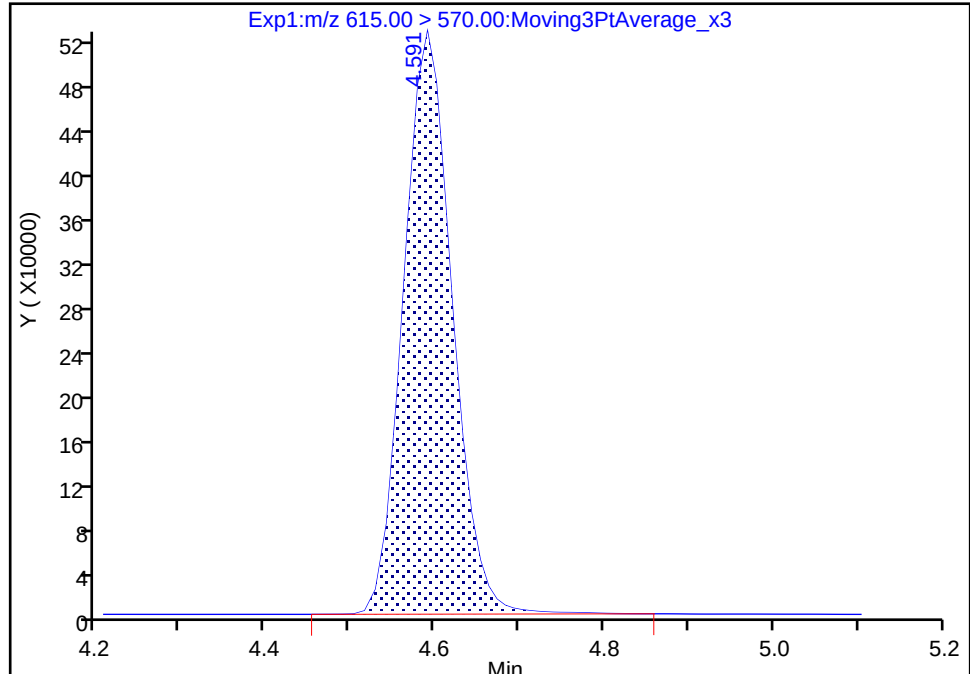
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

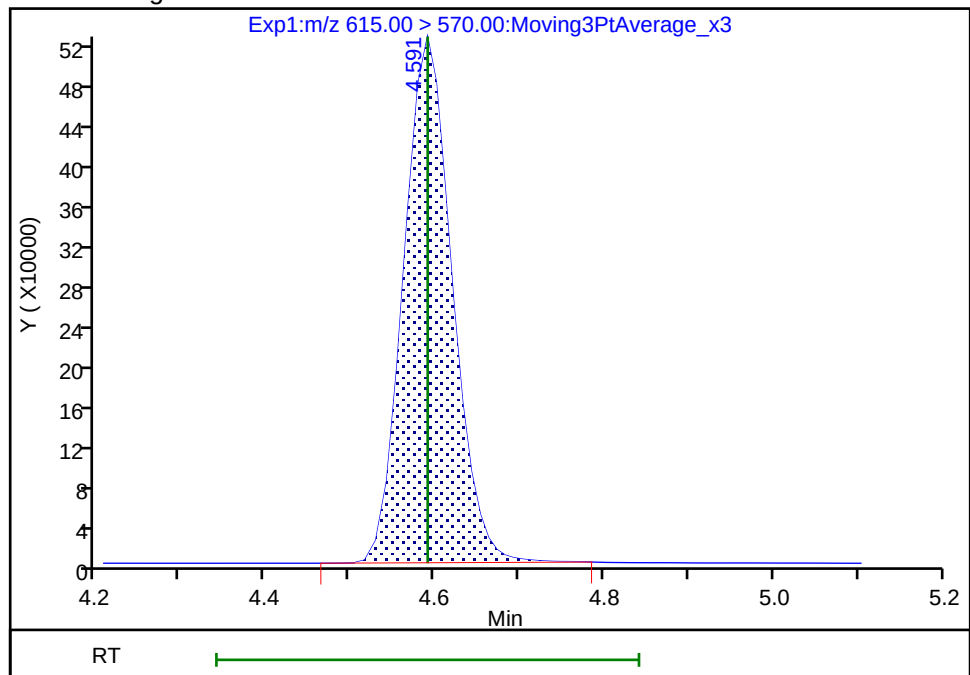
RT: 4.59
Area: 2112236
Amount: 1.319398
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2103698
Amount: 1.315000
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

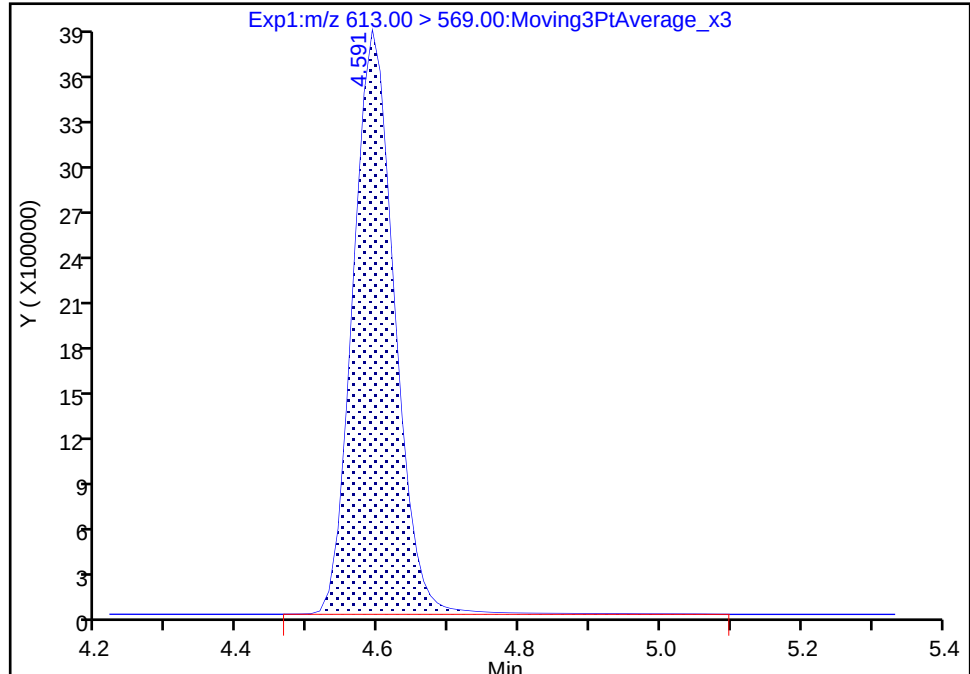
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

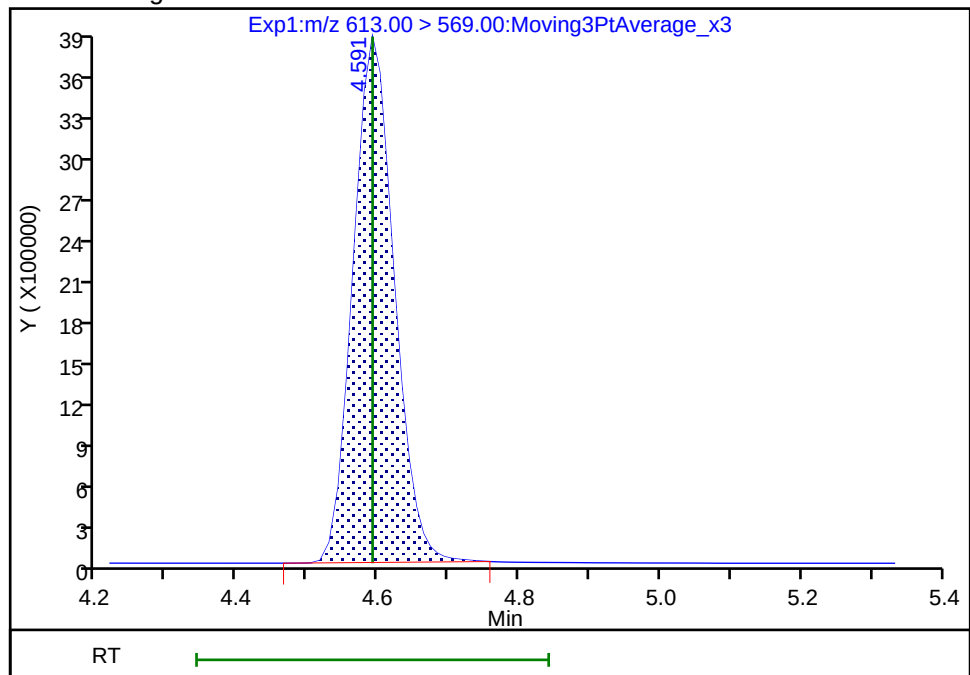
RT: 4.59
Area: 15795102
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 15612916
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

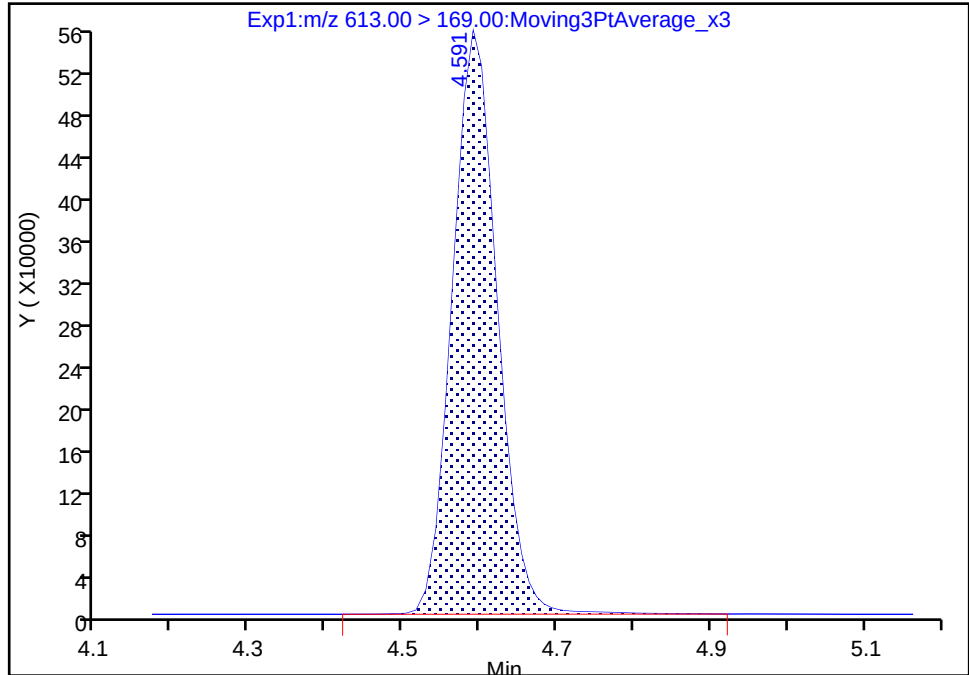
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

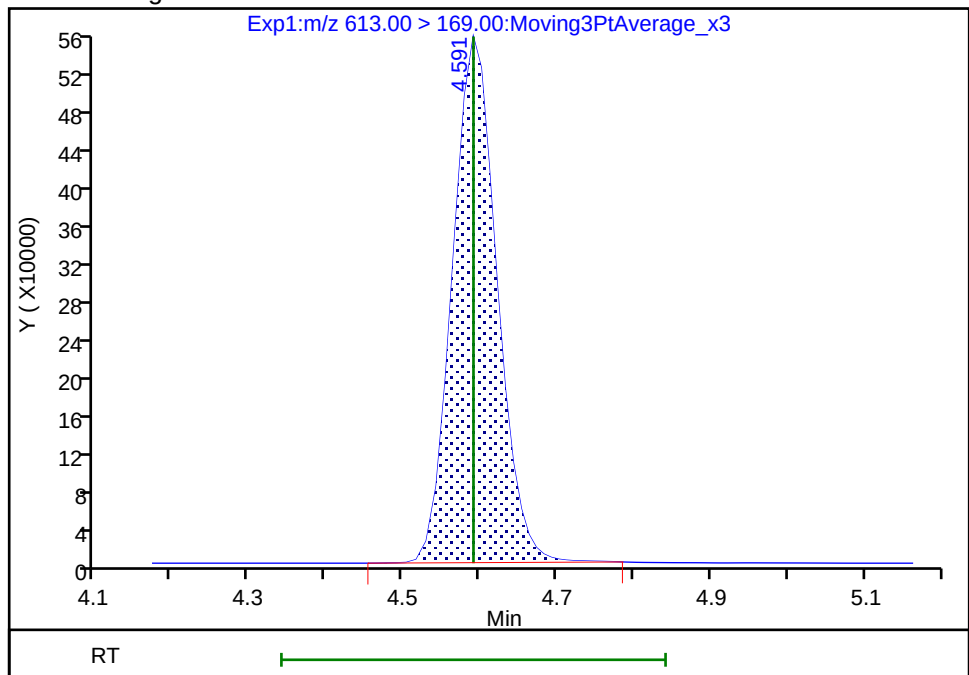
RT: 4.59
Area: 2239668
Amount: 8.813020
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 2225311
Amount: 8.756399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 525 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

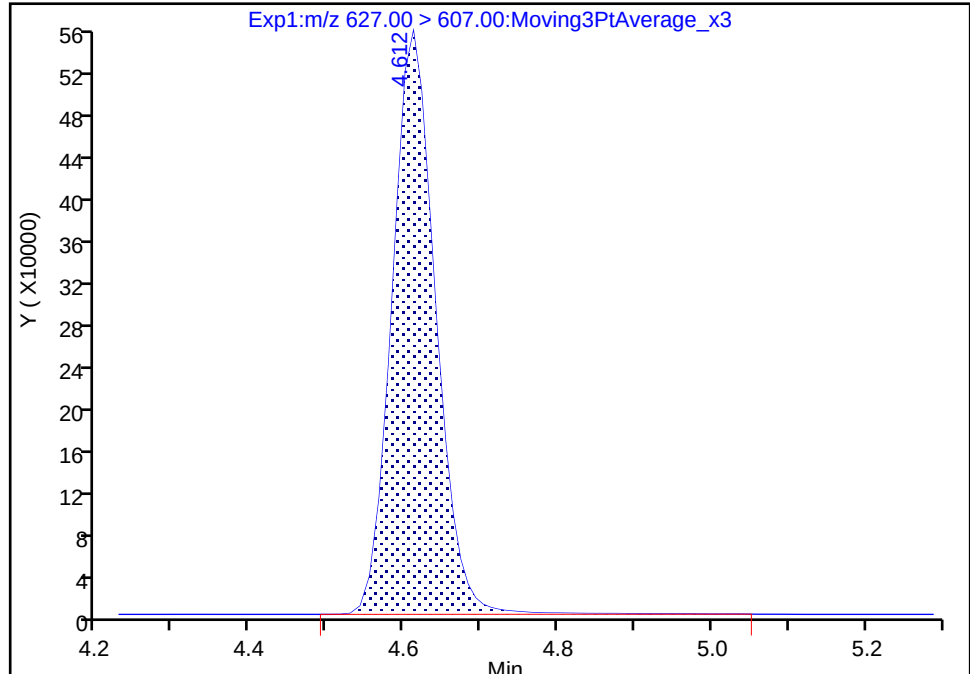
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

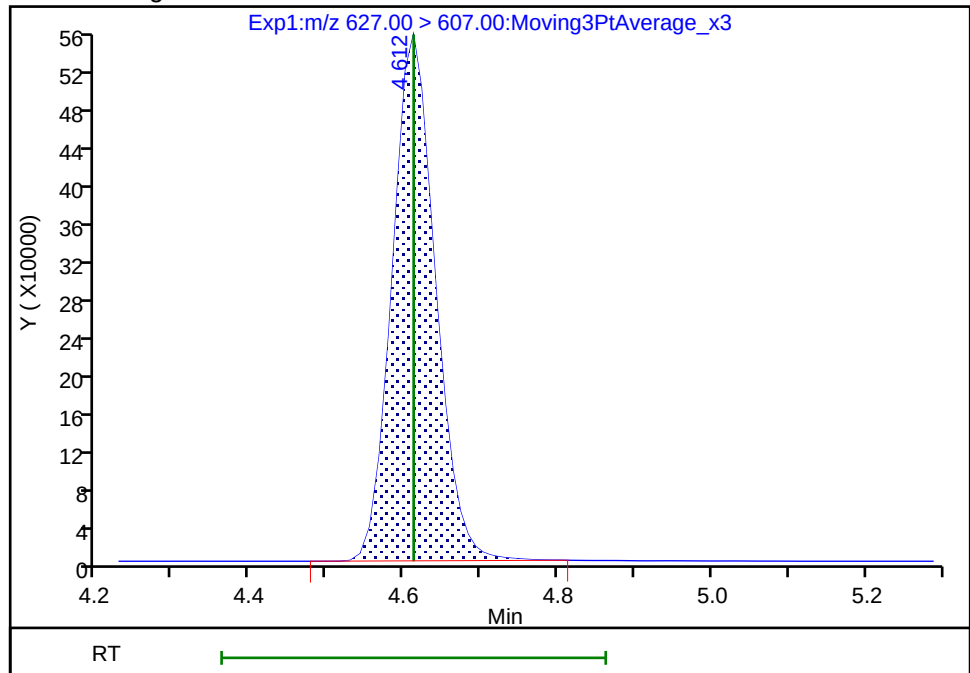
RT: 4.61
Area: 2155044
Amount: 9.567795
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 2140218
Amount: 9.512798
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

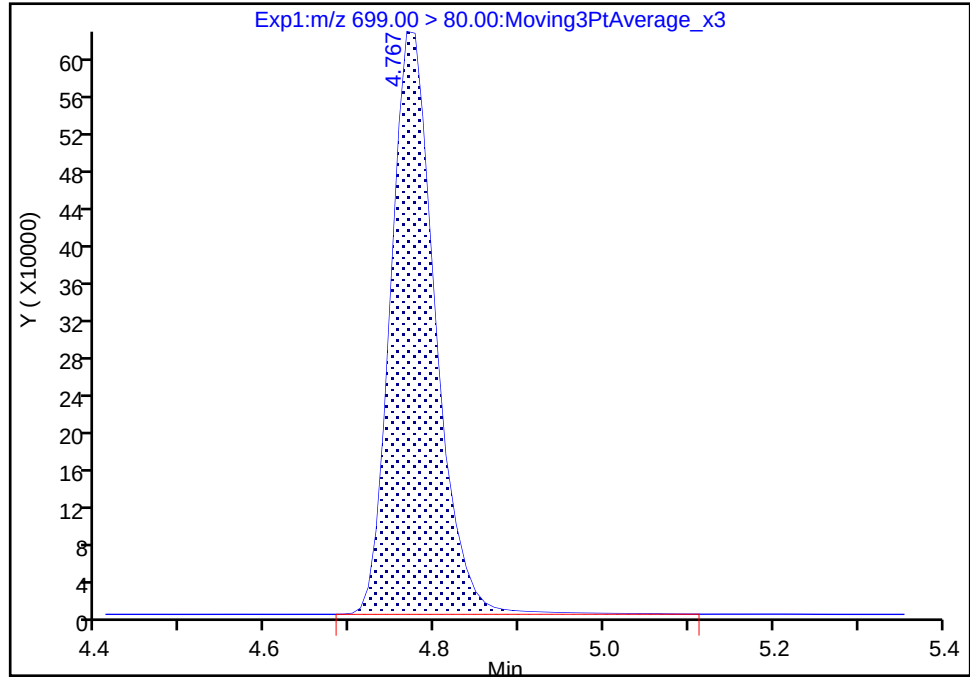
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

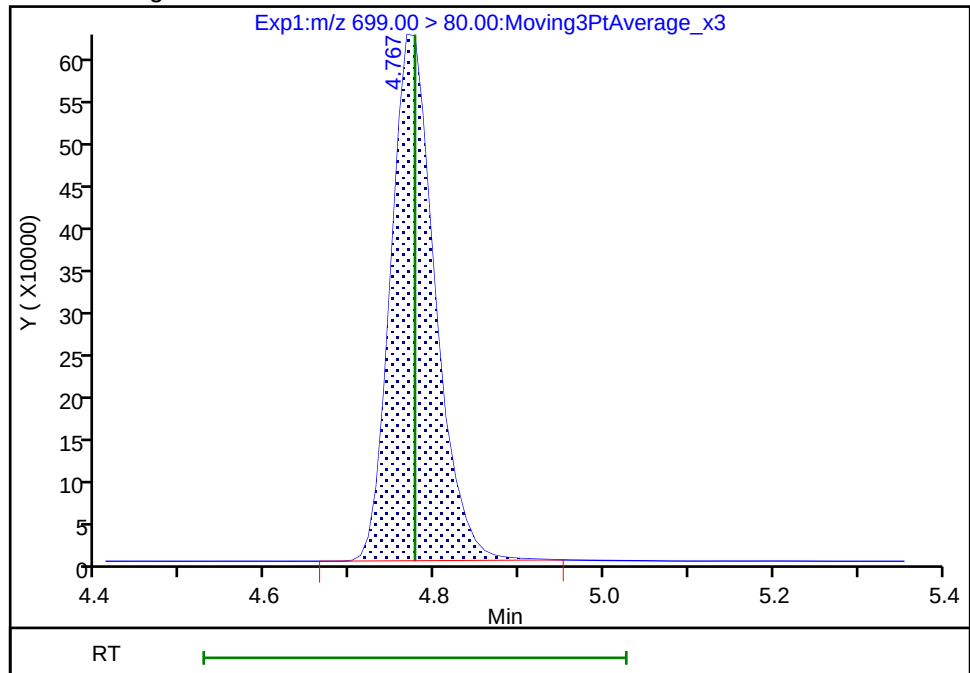
RT: 4.77
Area: 2276652
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 2258006
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

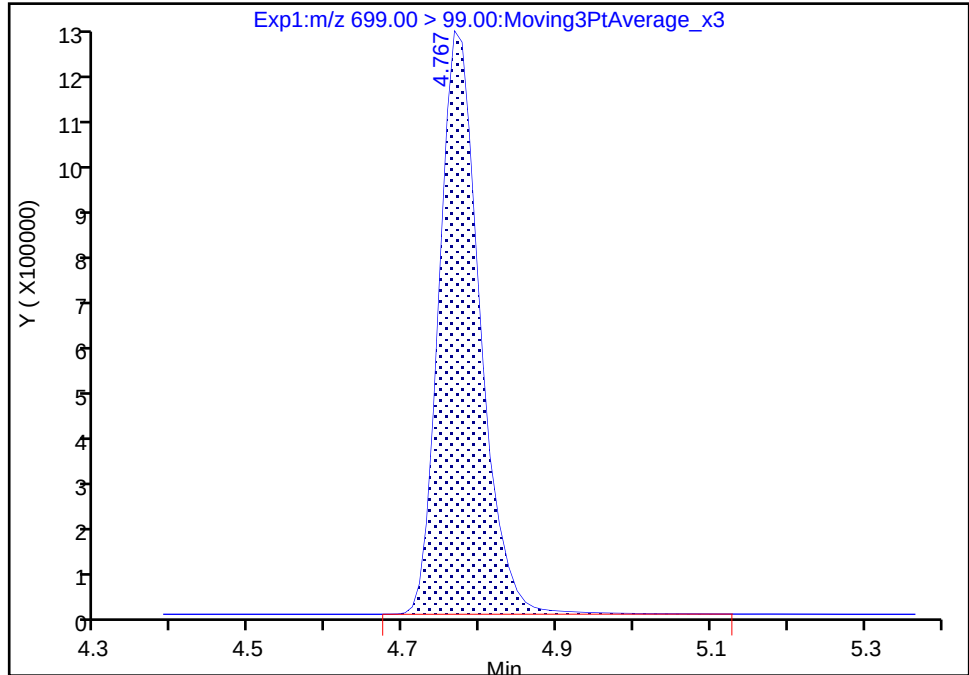
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

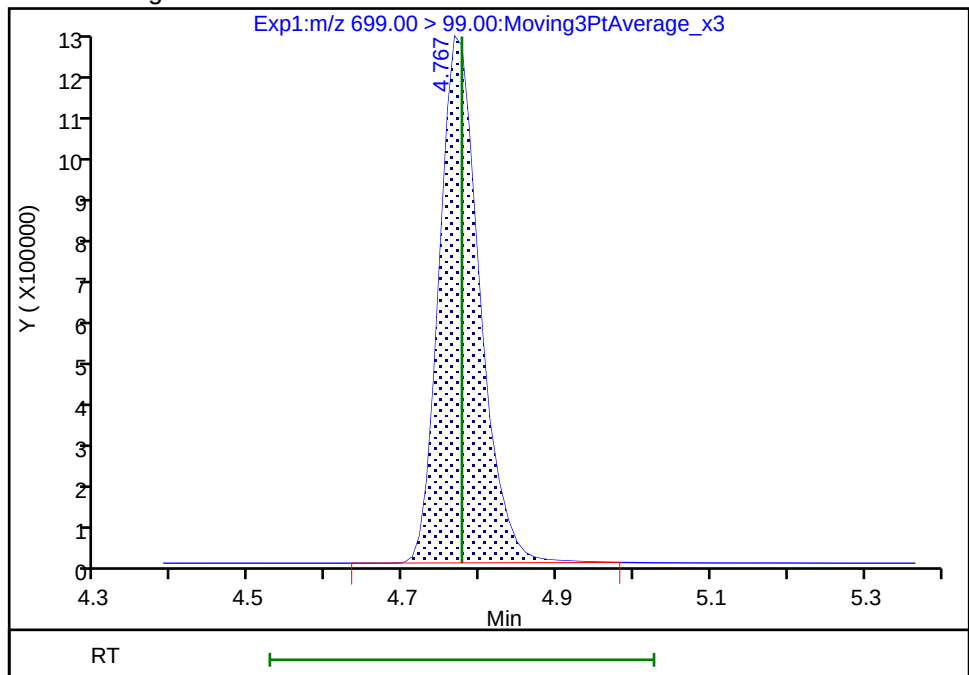
RT: 4.77
Area: 4551960
Amount: 8.916859
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 4532176
Amount: 8.854963
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

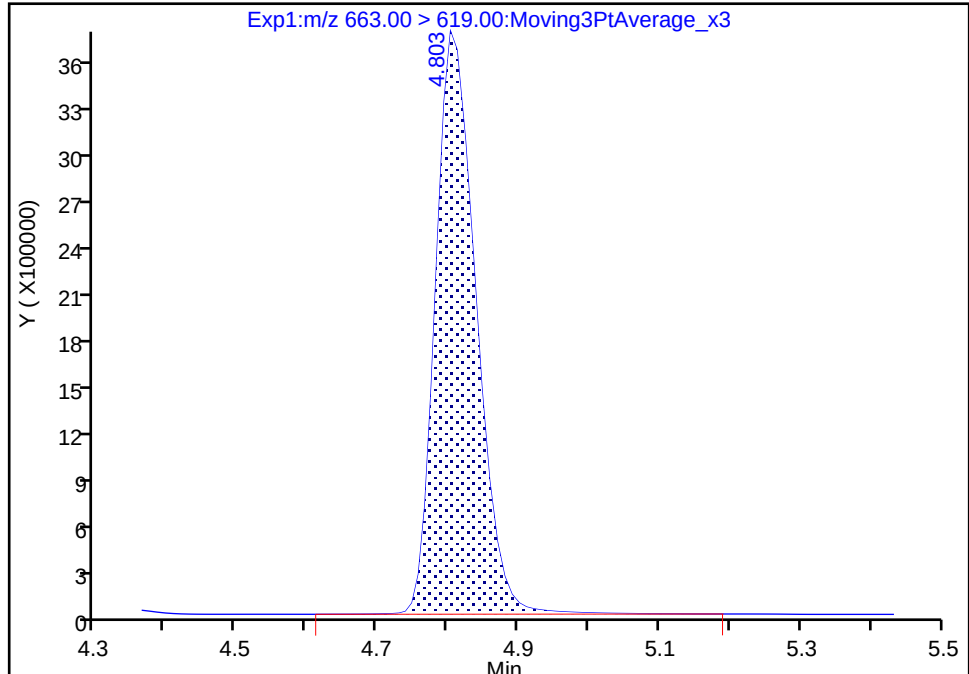
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

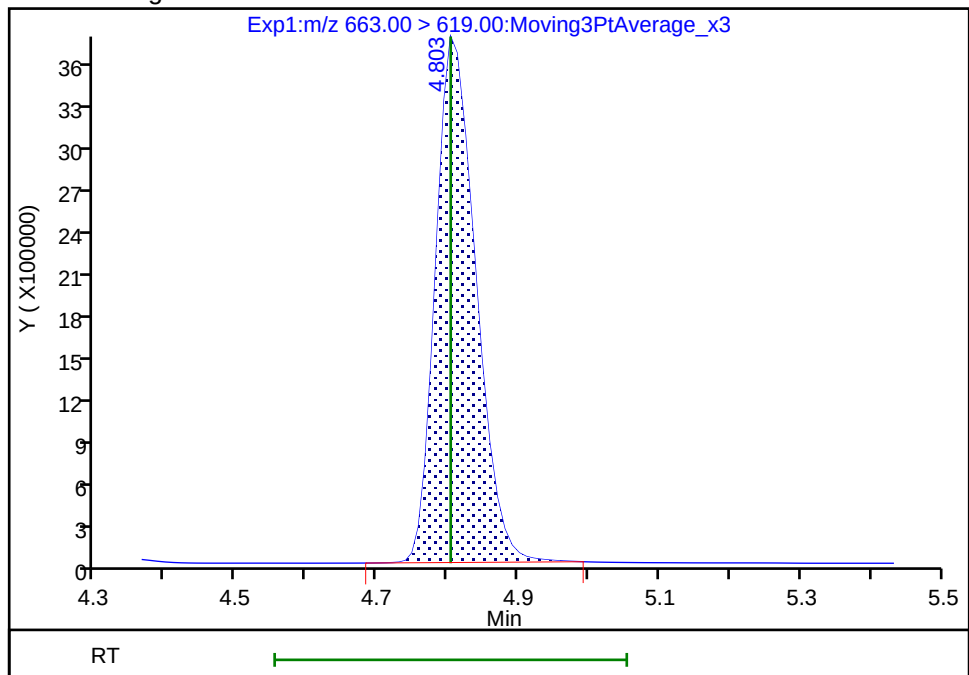
RT: 4.80
Area: 14874509
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 14753486
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

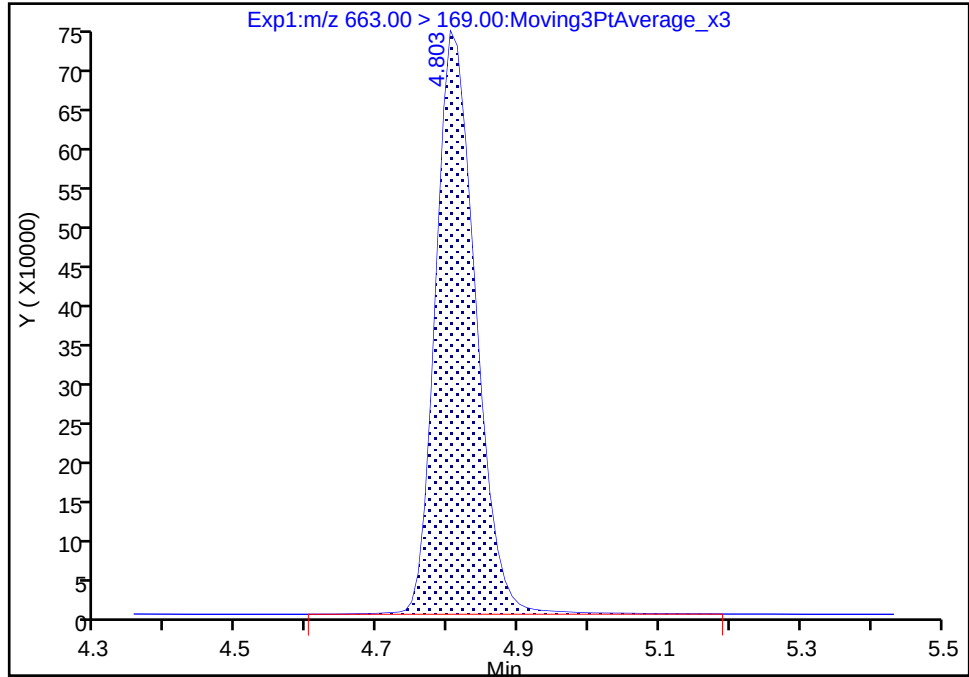
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

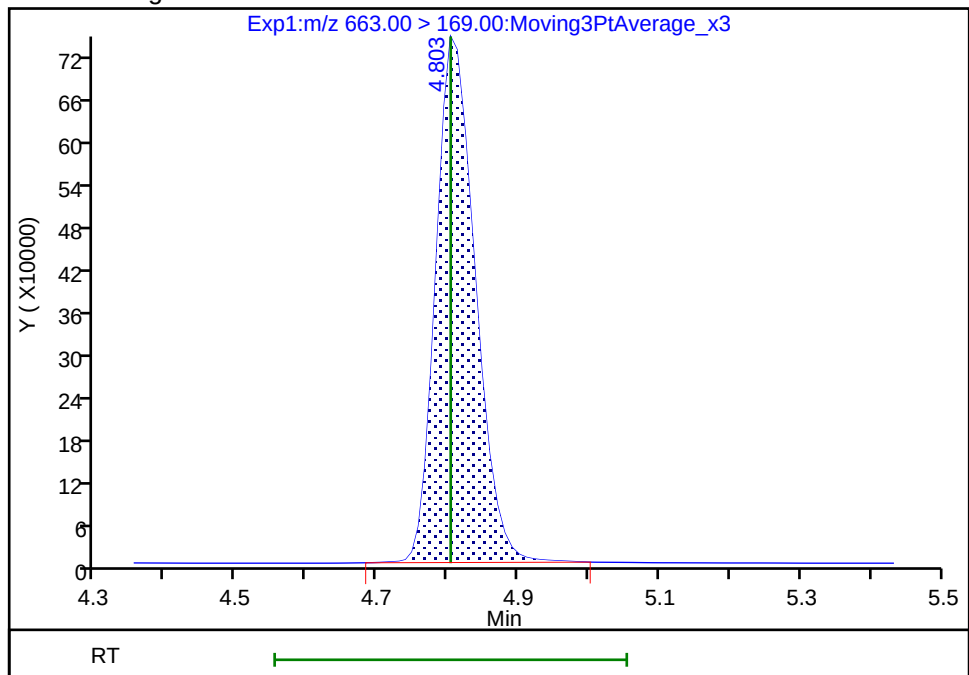
RT: 4.80
Area: 2899959
Amount: 8.712617
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 2874269
Amount: 8.651951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

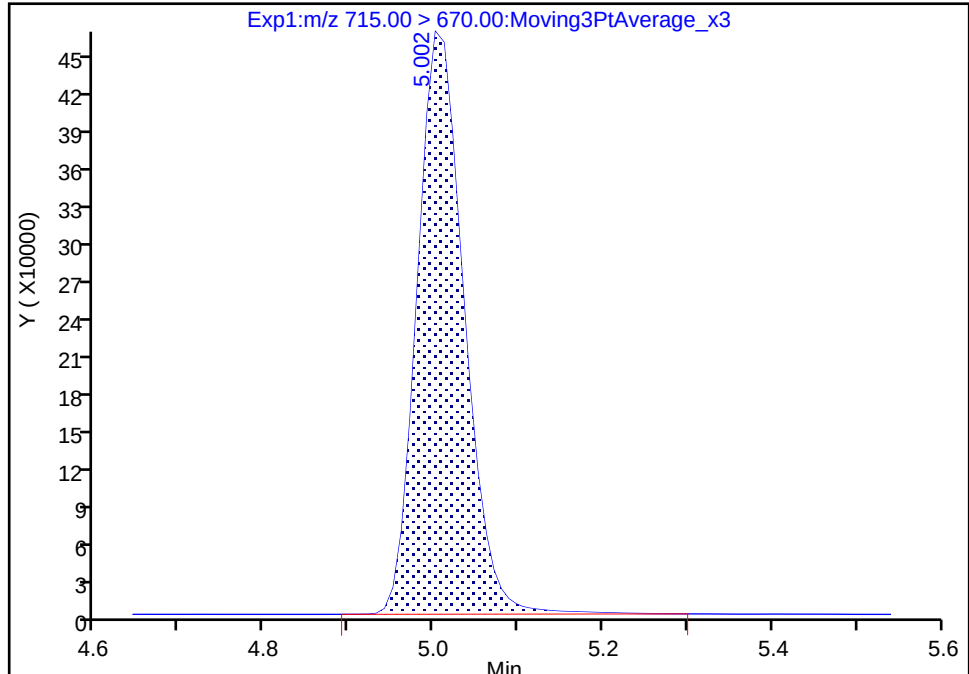
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

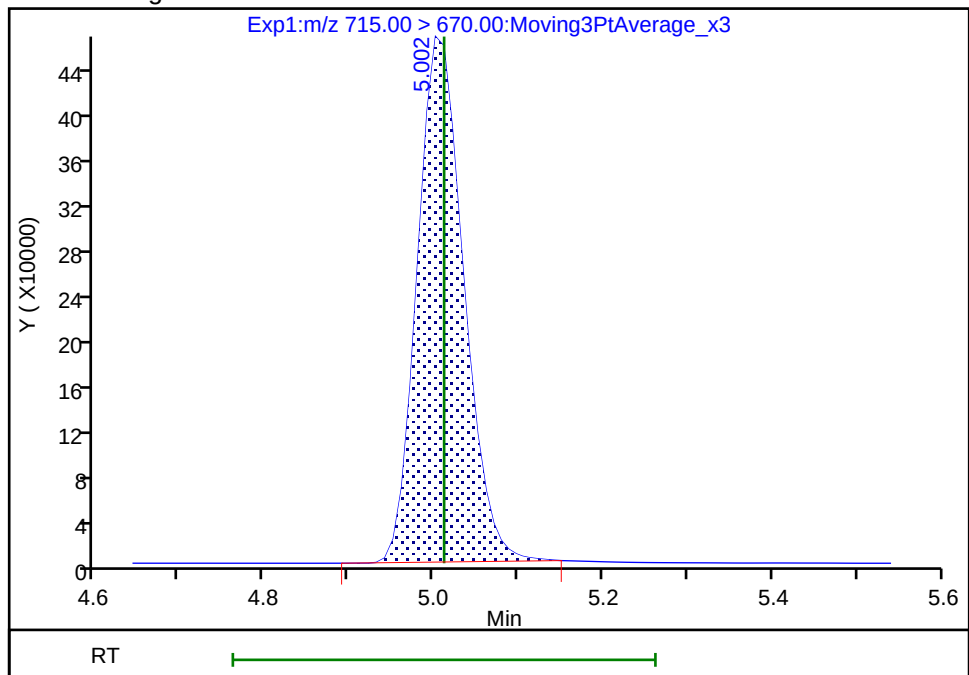
RT: 5.00
Area: 1805771
Amount: 1.302148
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1782548
Amount: 1.288279
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

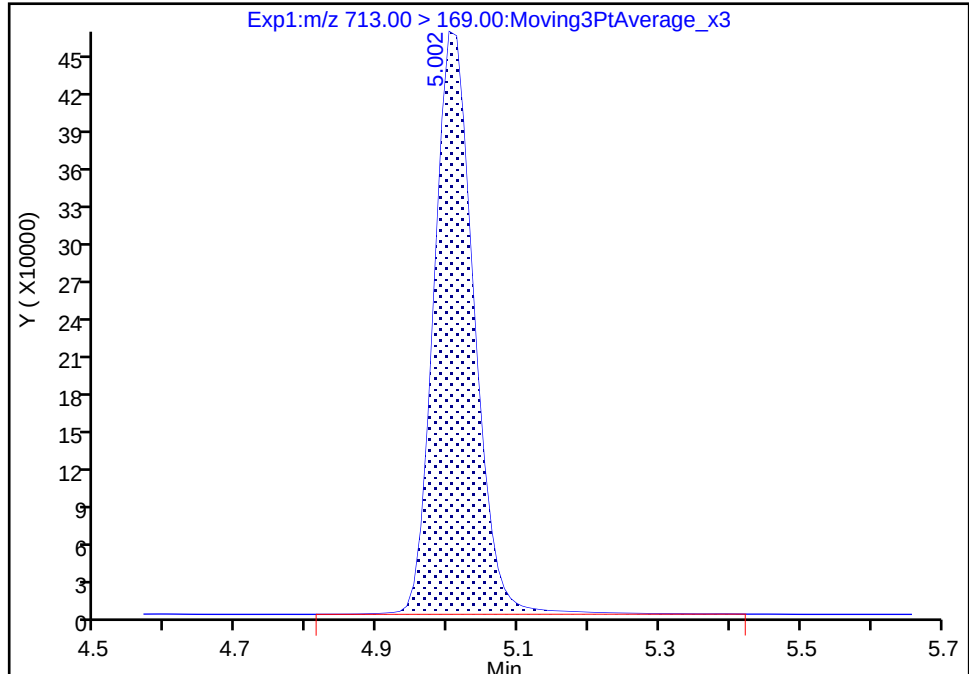
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

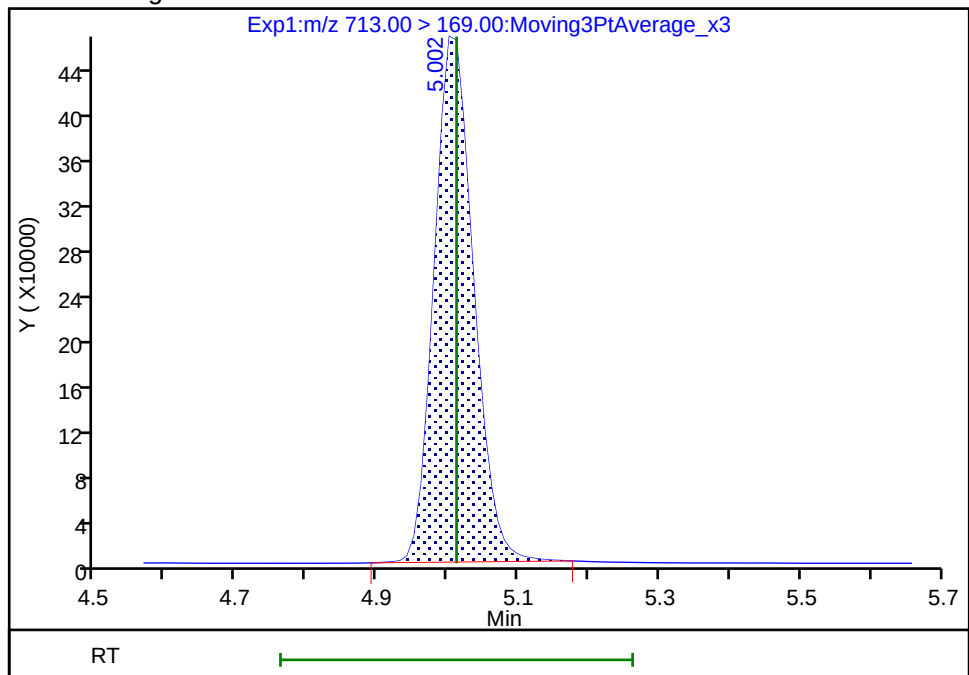
RT: 5.00
Area: 1841113
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1813608
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

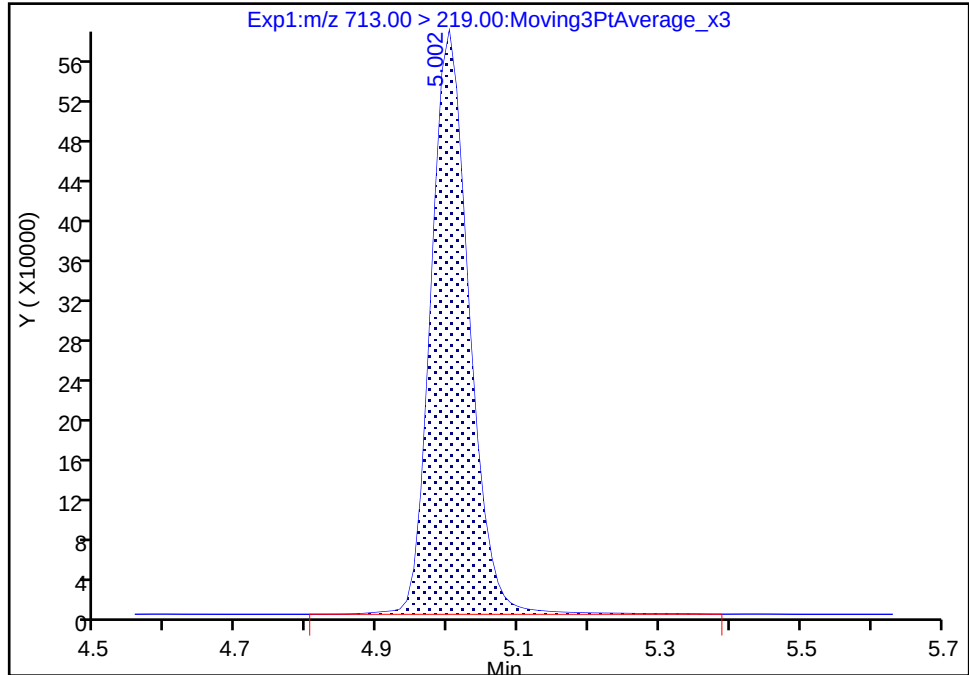
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

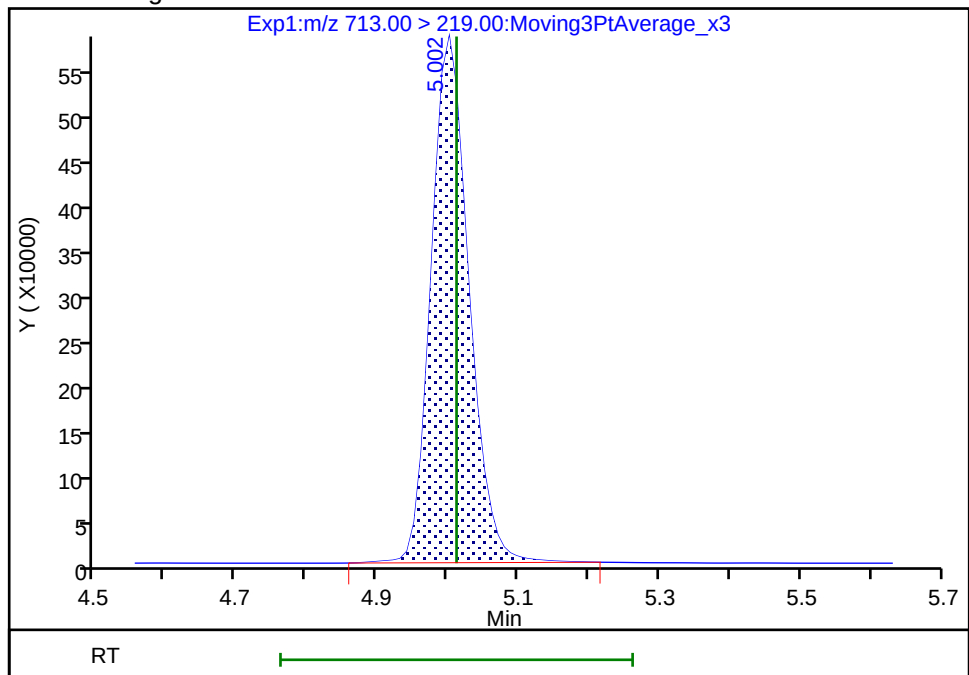
RT: 5.00
Area: 2174723
Amount: 9.306273
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 2156307
Amount: 9.289708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

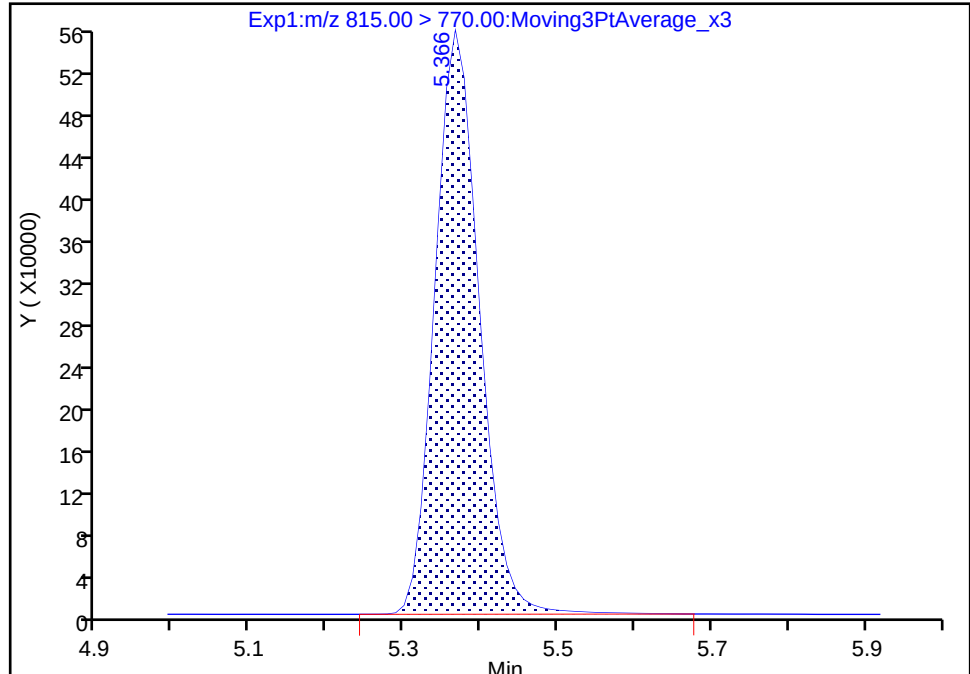
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

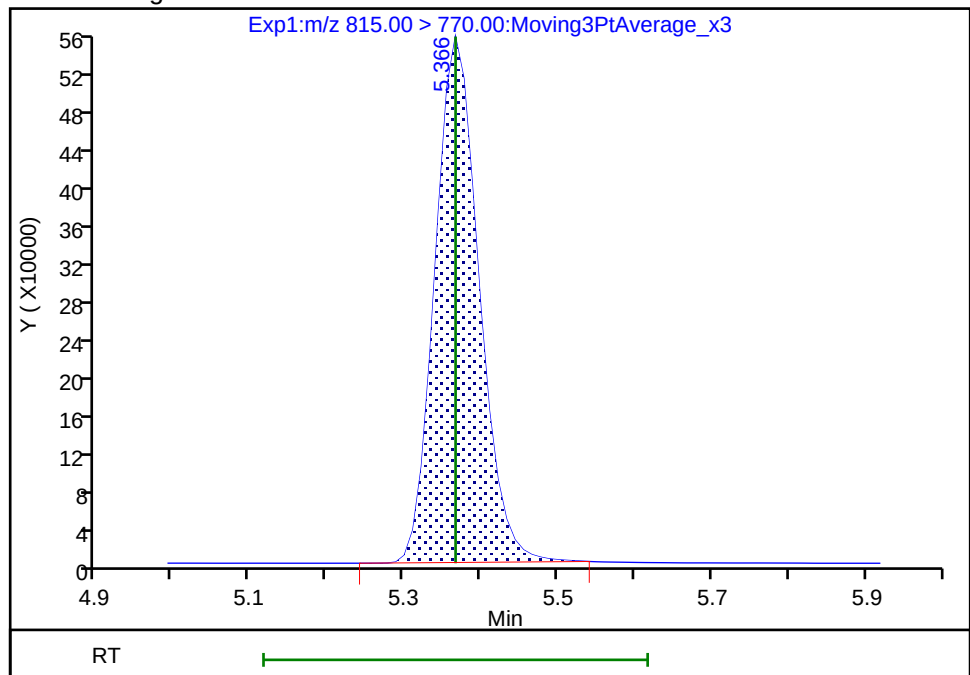
RT: 5.37
Area: 2211108
Amount: 1.290675
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2191999
Amount: 1.281426
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

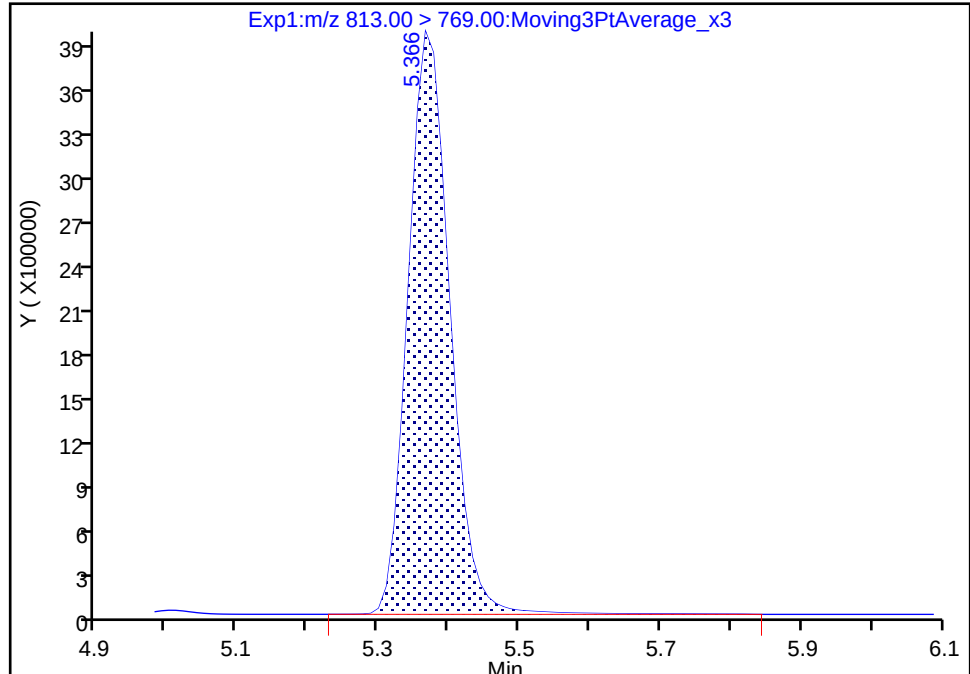
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

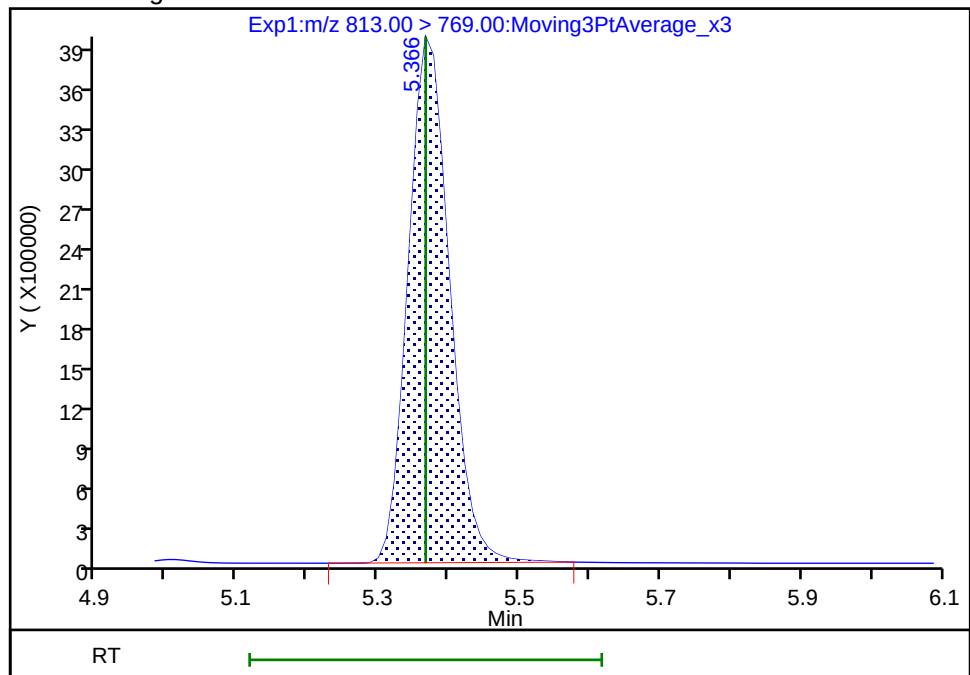
RT: 5.37
Area: 16305862
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 16164958
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:28:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

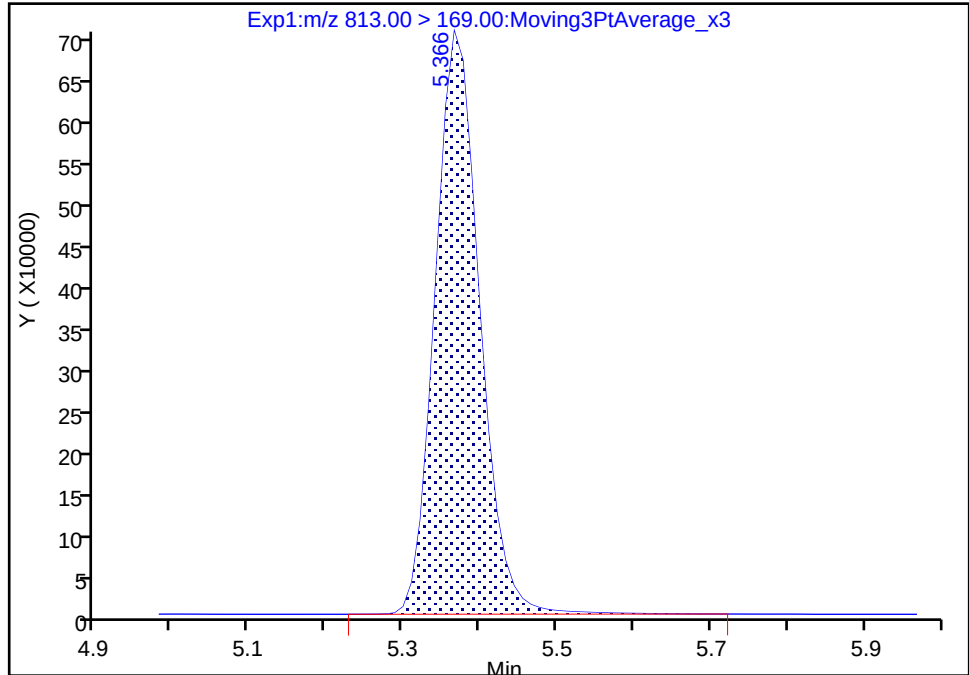
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

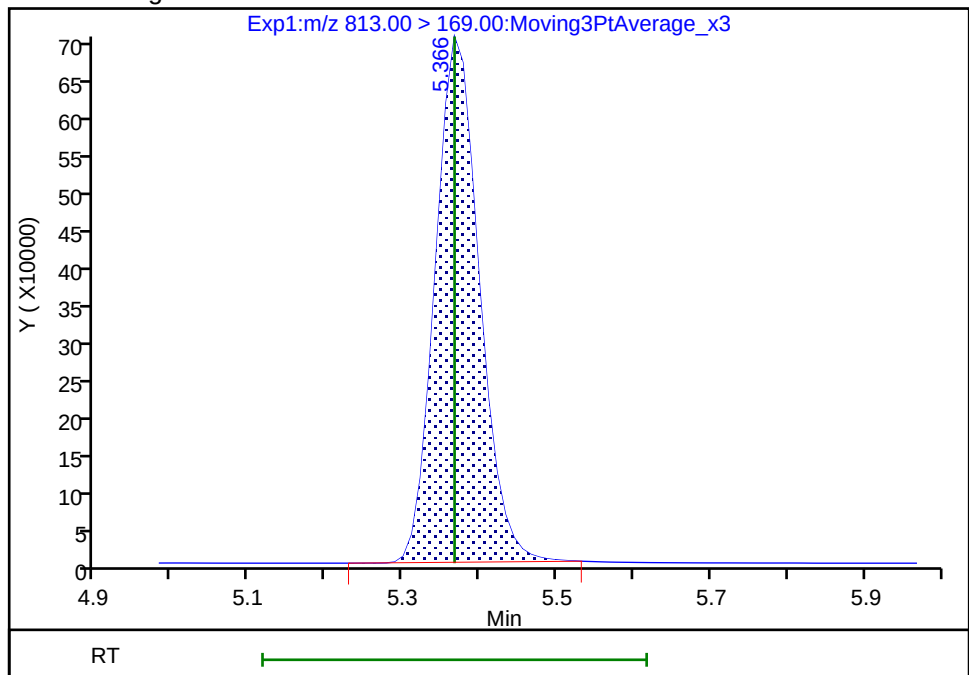
RT: 5.37
Area: 2835121
Amount: 10.008046
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2805404
Amount: 10.008049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

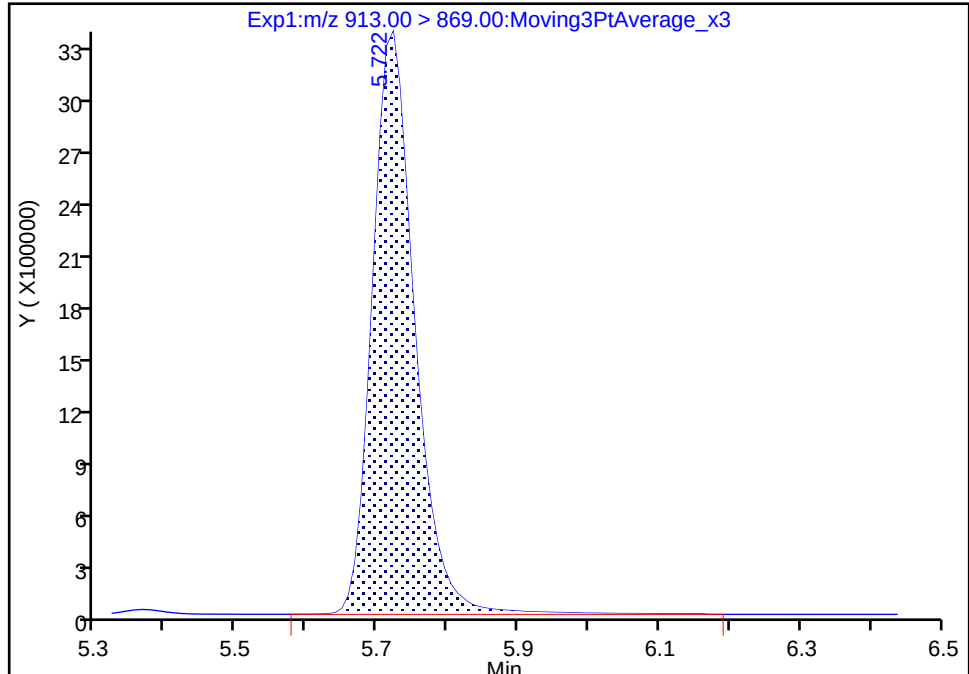
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

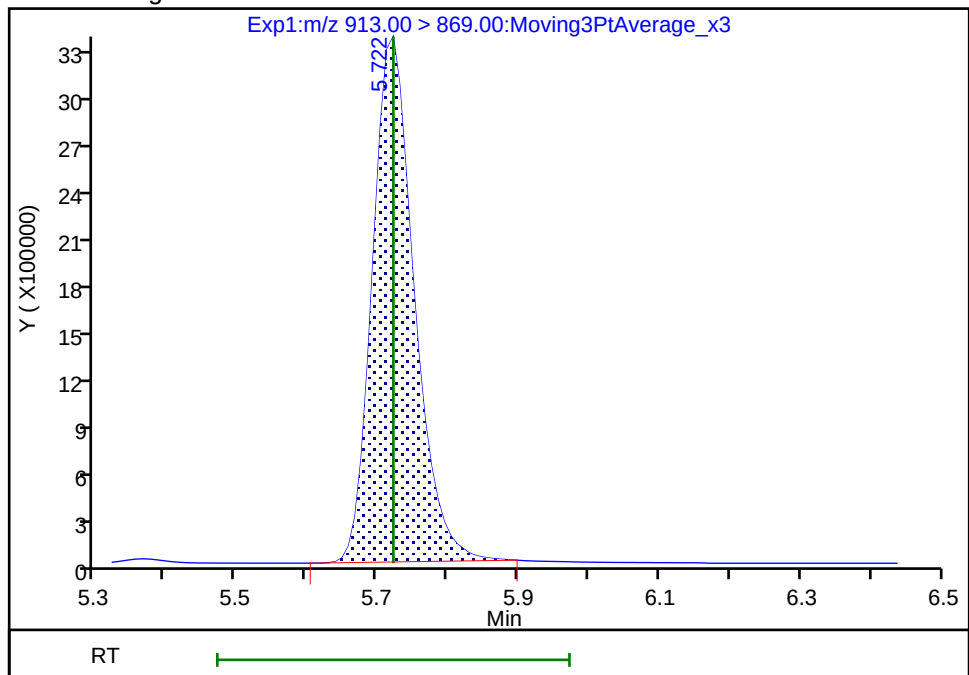
RT: 5.72
Area: 13908772
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 13617092
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

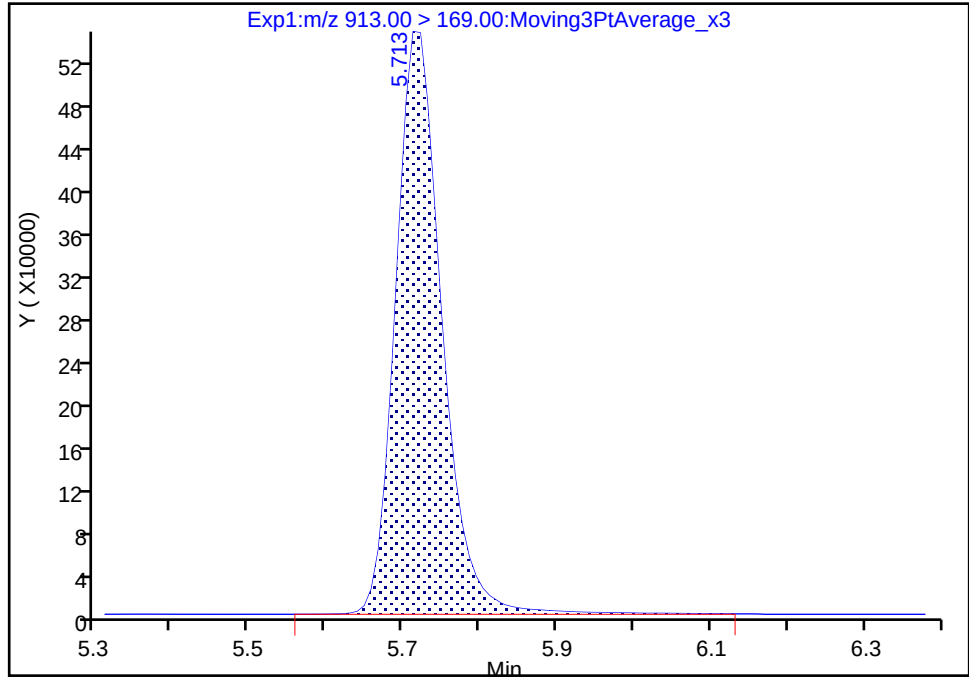
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
Injection Date: 18-Nov-2022 15:10:45 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

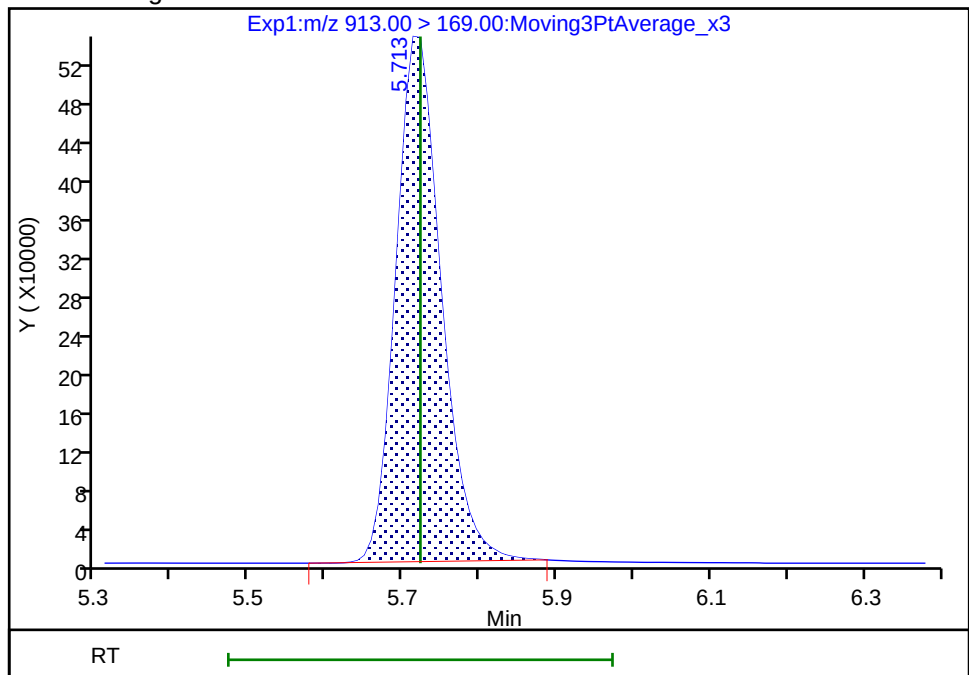
RT: 5.71
Area: 2271279
Amount: 9.598192
Amount Units: ng/ml

Processing Integration Results



RT: 5.71
Area: 2220967
Amount: 9.428539
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 18-Nov-2022 15:29:15

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

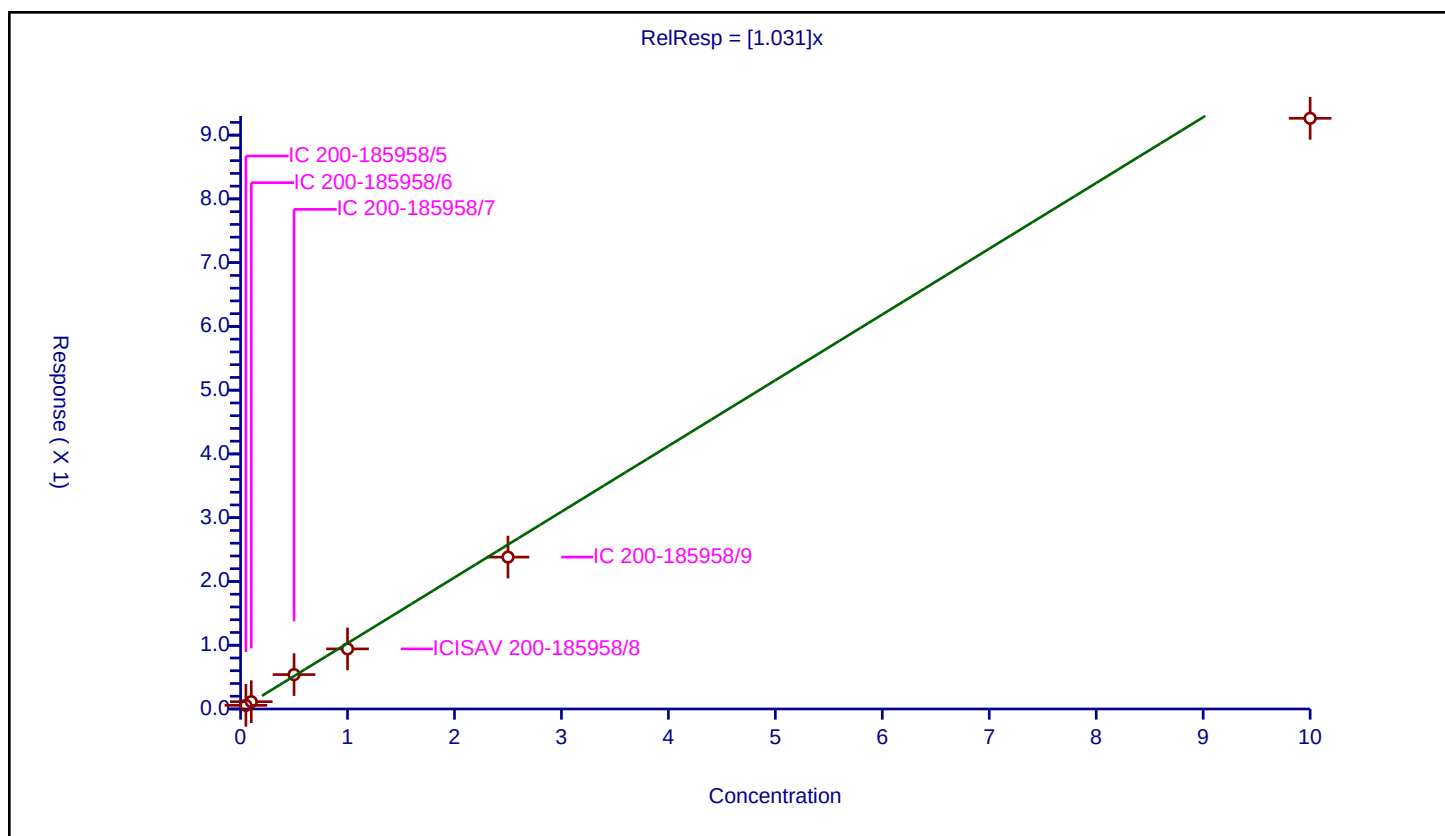
Curve Coefficients

Intercept: 0
 Slope: 1.031

Error Coefficients

Standard Error: 8550000
 Relative Standard Error: 9.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057224	1.25	2565506.0	1.144482	Y
2	IC 200-185958/6	0.1	0.114249	1.25	2583086.0	1.142485	Y
3	IC 200-185958/7	0.5	0.539241	1.25	2637410.0	1.078482	Y
4	ICISAV 200-185958/8	1.0	0.942534	1.25	2534911.0	0.942534	Y
5	IC 200-185958/9	2.5	2.381988	1.25	2679202.0	0.952795	Y
6	IC 200-185958/10	10.0	9.26398	1.25	2467565.0	0.926398	Y



Calibration

/ Perfluoropentanoic acid

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

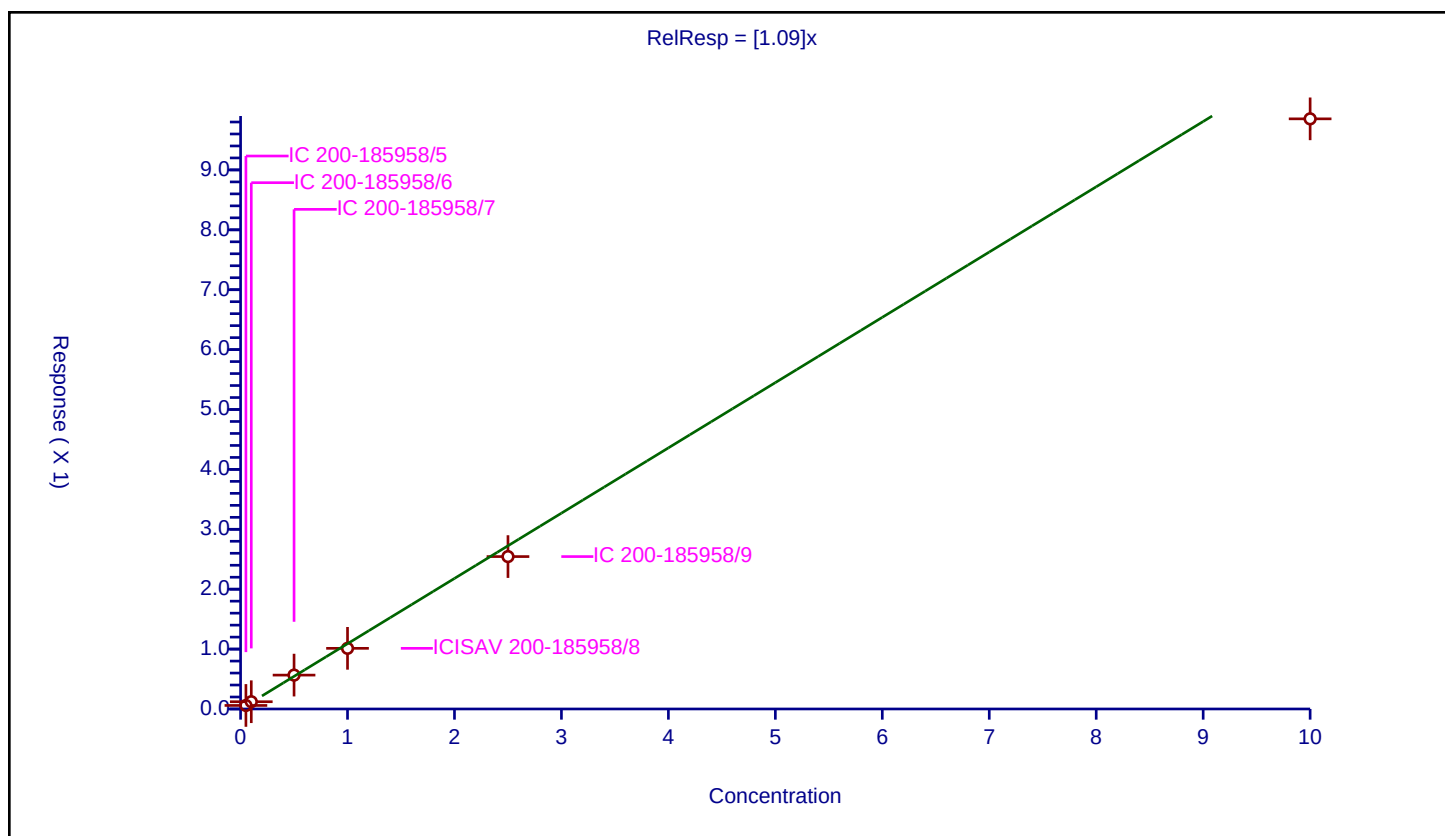
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 6860000
 Relative Standard Error: 8.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058833	1.25	1939262.0	1.176659	Y
2	IC 200-185958/6	0.1	0.121498	1.25	1926794.0	1.214985	Y
3	IC 200-185958/7	0.5	0.565812	1.25	2052396.0	1.131624	Y
4	ICISAV 200-185958/8	1.0	1.012574	1.25	1977830.0	1.012574	Y
5	IC 200-185958/9	2.5	2.544537	1.25	2026955.0	1.017815	Y
6	IC 200-185958/10	10.0	9.852991	1.25	1859782.0	0.985299	Y



Calibration

/ Perfluorobutanesulfonic acid

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

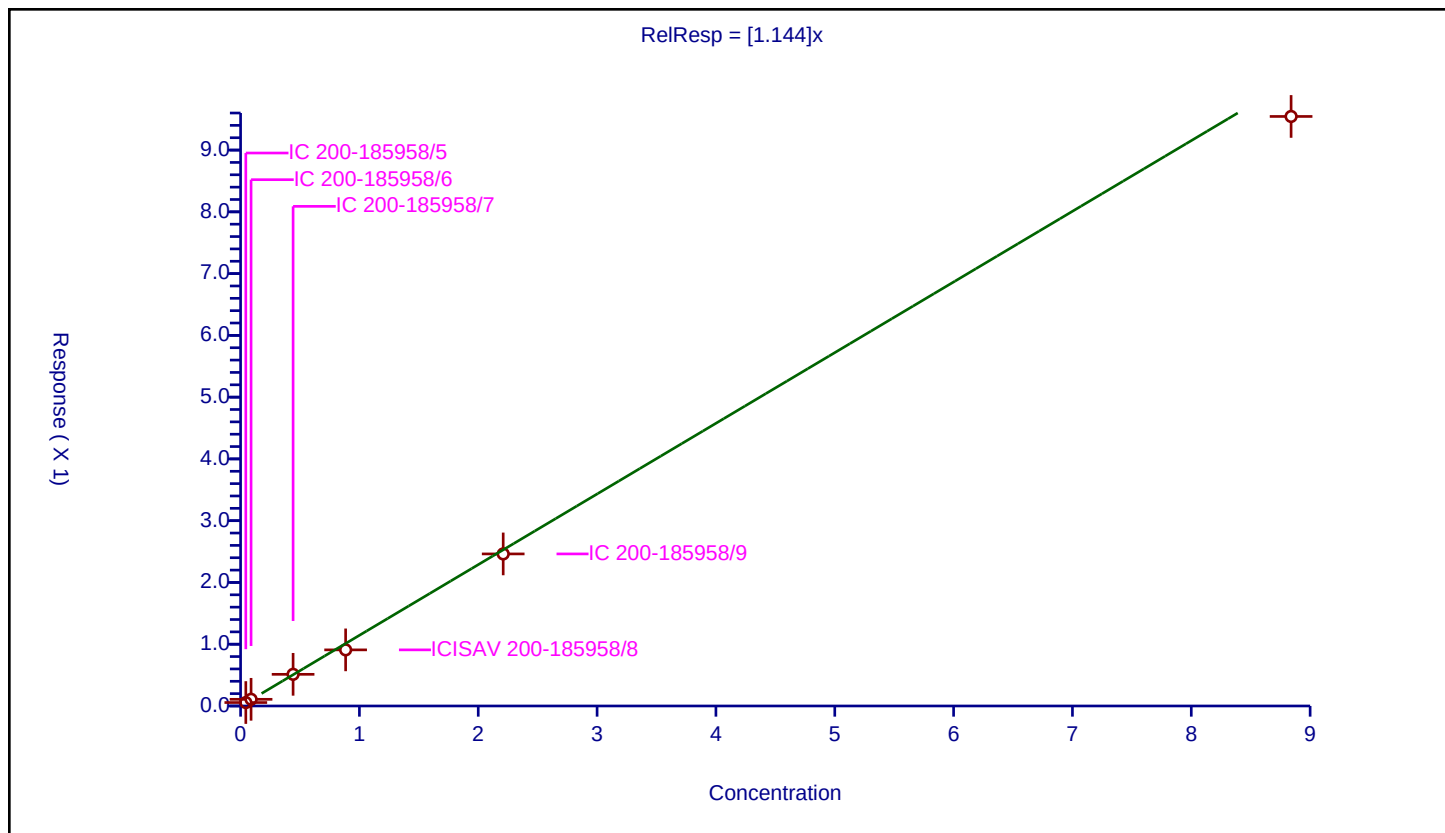
Curve Coefficients

Intercept: 0
Slope: 1.144

Error Coefficients

Standard Error: 7350000
Relative Standard Error: 7.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0442	0.055758	1.1625	1961265.0	1.261495	Y
2	IC 200-185958/6	0.0884	0.107986	1.1625	1974243.0	1.221563	Y
3	IC 200-185958/7	0.442	0.512666	1.1625	2040575.0	1.159878	Y
4	ICISAV 200-185958/8	0.884	0.908628	1.1625	1977208.0	1.02786	Y
5	IC 200-185958/9	2.21	2.46206	1.1625	2026741.0	1.114054	Y
6	IC 200-185958/10	8.84	9.544152	1.1625	1920108.0	1.079655	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

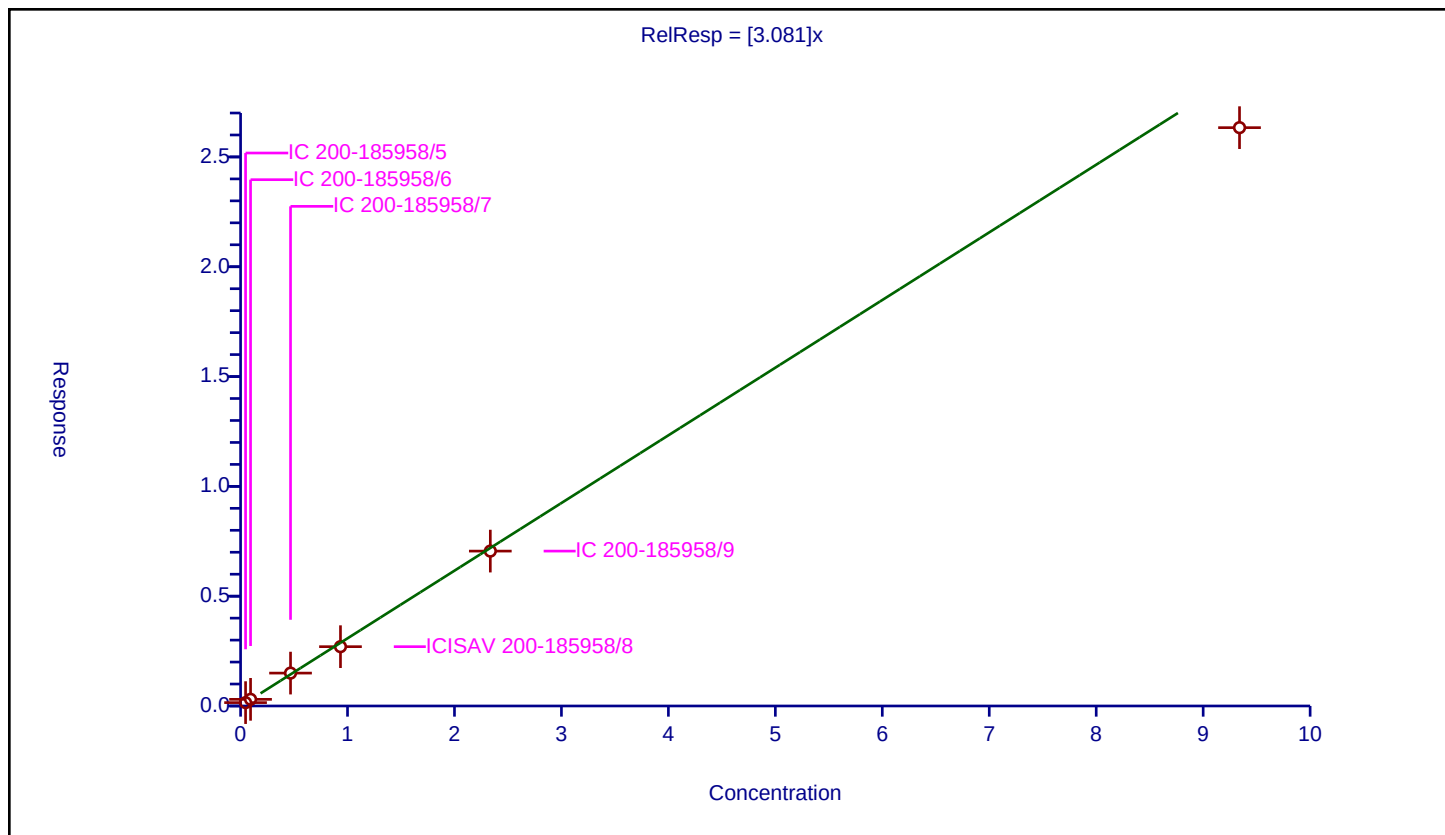
Curve Coefficients

Intercept: 0
 Slope: 3.081

Error Coefficients

Standard Error: 1780000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0467	0.15414	1.1675	184320.0	3.300646	Y
2	IC 200-185958/6	0.0934	0.303025	1.1675	176875.0	3.244382	Y
3	IC 200-185958/7	0.467	1.498032	1.1675	178810.0	3.207776	Y
4	ICISAV 200-185958/8	0.934	2.701025	1.1675	169056.0	2.891889	Y
5	IC 200-185958/9	2.335	7.053067	1.1675	178646.0	3.020585	Y
6	IC 200-185958/10	9.34	26.333856	1.1675	168186.0	2.819471	Y



Calibration

/ Perfluorohexanoic acid

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

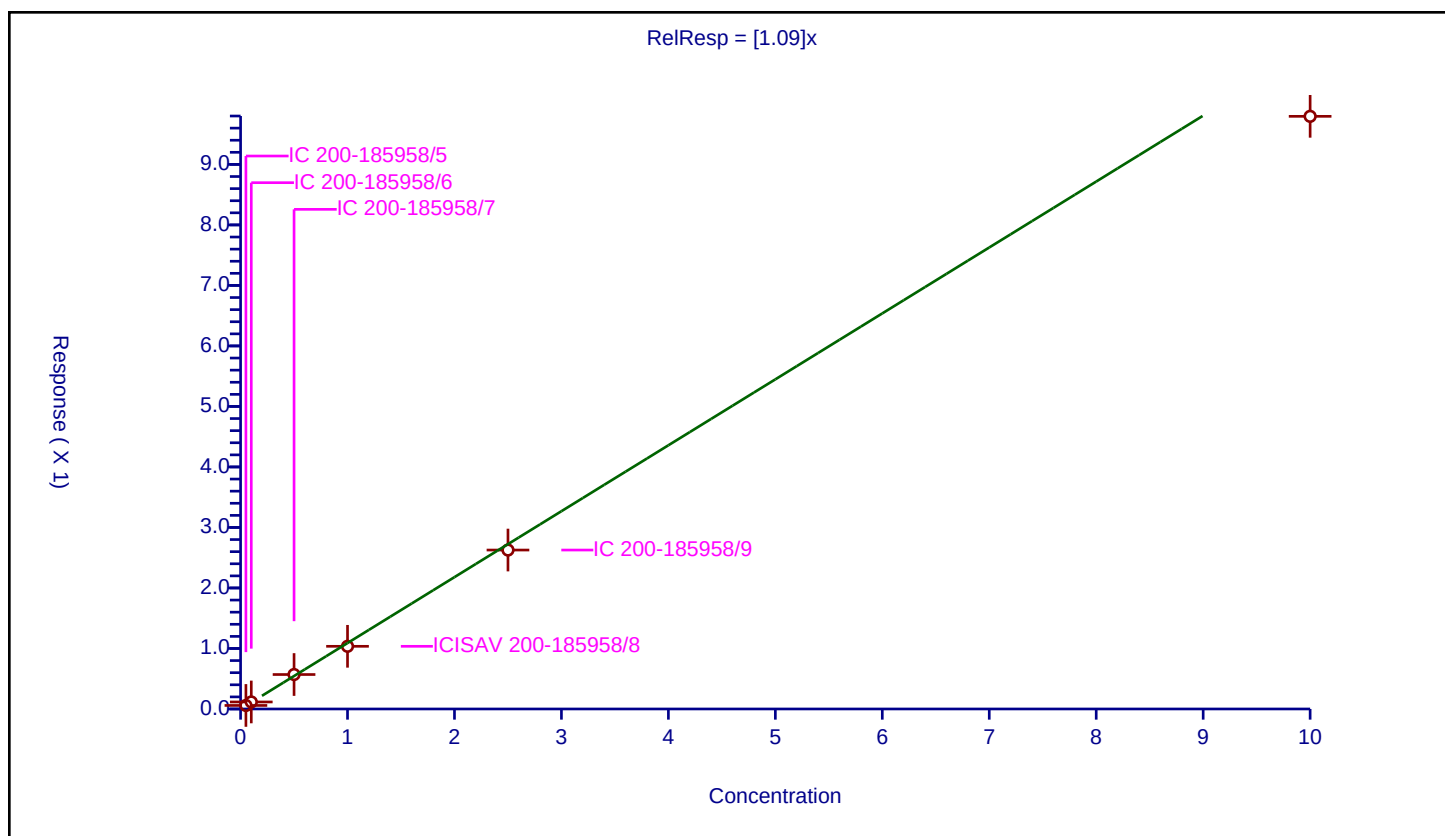
Curve Coefficients

Intercept: 0
 Slope: 1.09

Error Coefficients

Standard Error: 7040000
 Relative Standard Error: 7.2
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058558	1.25	1995025.0	1.171151	Y
2	IC 200-185958/6	0.1	0.116113	1.25	2057289.0	1.161134	Y
3	IC 200-185958/7	0.5	0.569539	1.25	2177304.0	1.139078	Y
4	ICISAV 200-185958/8	1.0	1.036018	1.25	2055340.0	1.036018	Y
5	IC 200-185958/9	2.5	2.627037	1.25	2164012.0	1.050815	Y
6	IC 200-185958/10	10.0	9.79467	1.25	1905245.0	0.979467	Y



Calibration

/ Perfluoropentanesulfonic acid

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

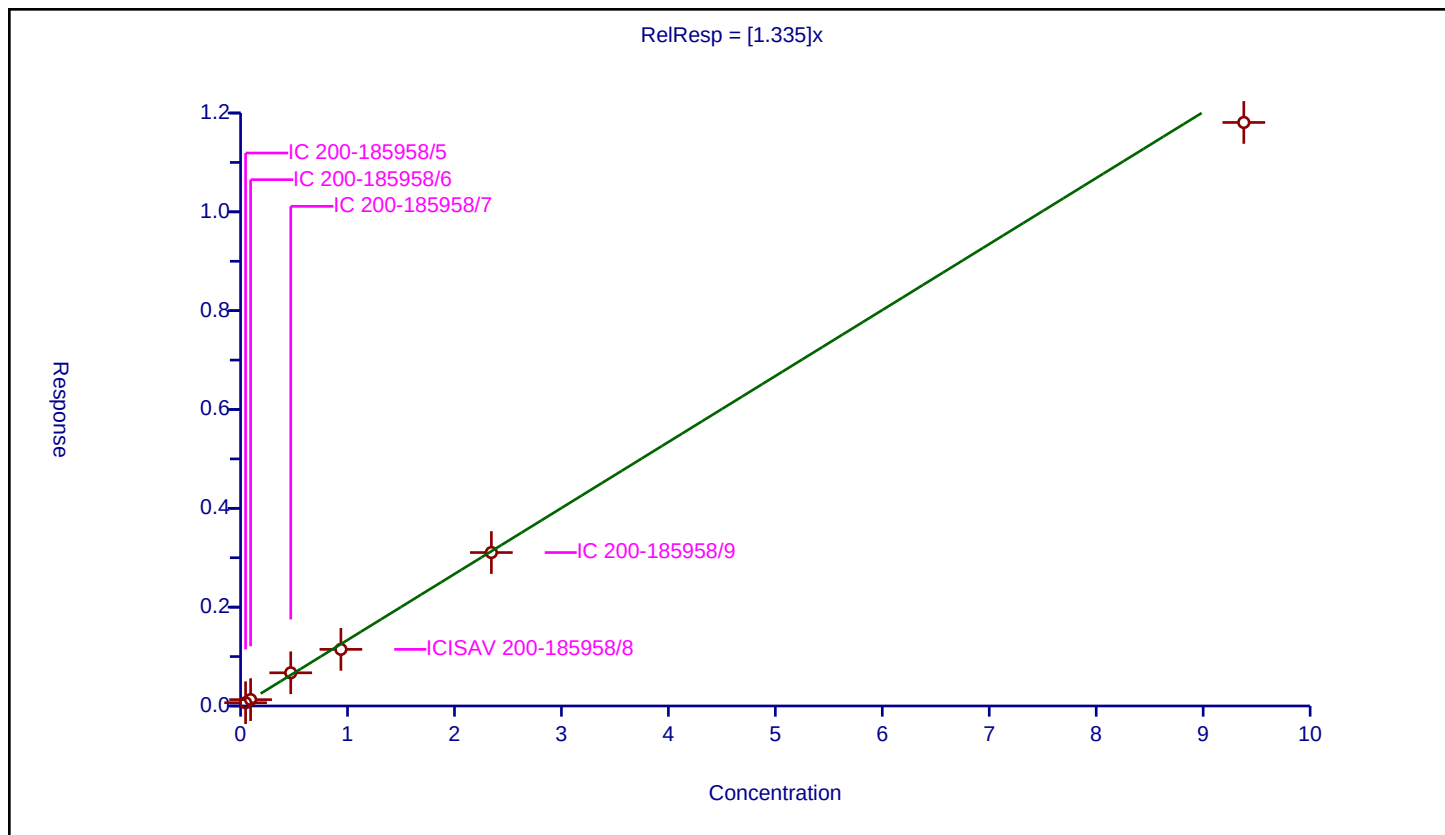
Curve Coefficients

Intercept: 0
 Slope: 1.335

Error Coefficients

Standard Error: 6610000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0469	0.065942	1.1825	1483321.0	1.406008	Y
2	IC 200-185958/6	0.0938	0.128511	1.1825	1507942.0	1.370052	Y
3	IC 200-185958/7	0.469	0.671495	1.1825	1474490.0	1.431758	Y
4	ICISAV 200-185958/8	0.938	1.145942	1.1825	1449028.0	1.221687	Y
5	IC 200-185958/9	2.345	3.105213	1.1825	1485775.0	1.324185	Y
6	IC 200-185958/10	9.38	11.808932	1.1825	1417084.0	1.258948	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

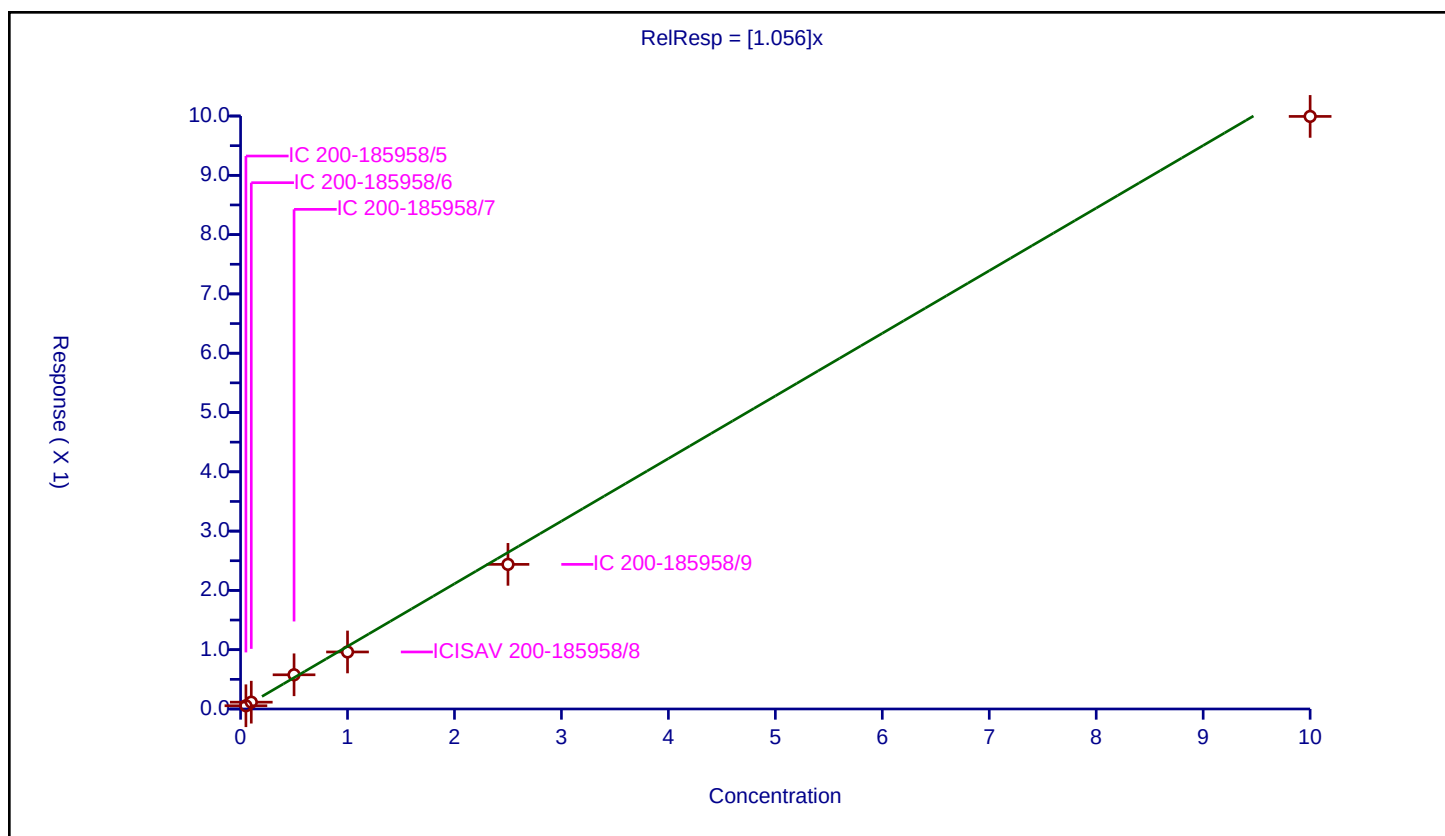
Curve Coefficients

Intercept: 0
 Slope: 1.056

Error Coefficients

Standard Error: 1300000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054781	1.25	337960.0	1.095618	Y
2	IC 200-185958/6	0.1	0.114926	1.25	352715.0	1.149264	Y
3	IC 200-185958/7	0.5	0.576866	1.25	378942.0	1.153732	Y
4	ICISAV 200-185958/8	1.0	0.961905	1.25	372889.0	0.961905	Y
5	IC 200-185958/9	2.5	2.439146	1.25	387831.0	0.975658	Y
6	IC 200-185958/10	10.0	9.993461	1.25	349067.0	0.999346	Y



Calibration

/ Perfluorohexanesulfonic acid

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

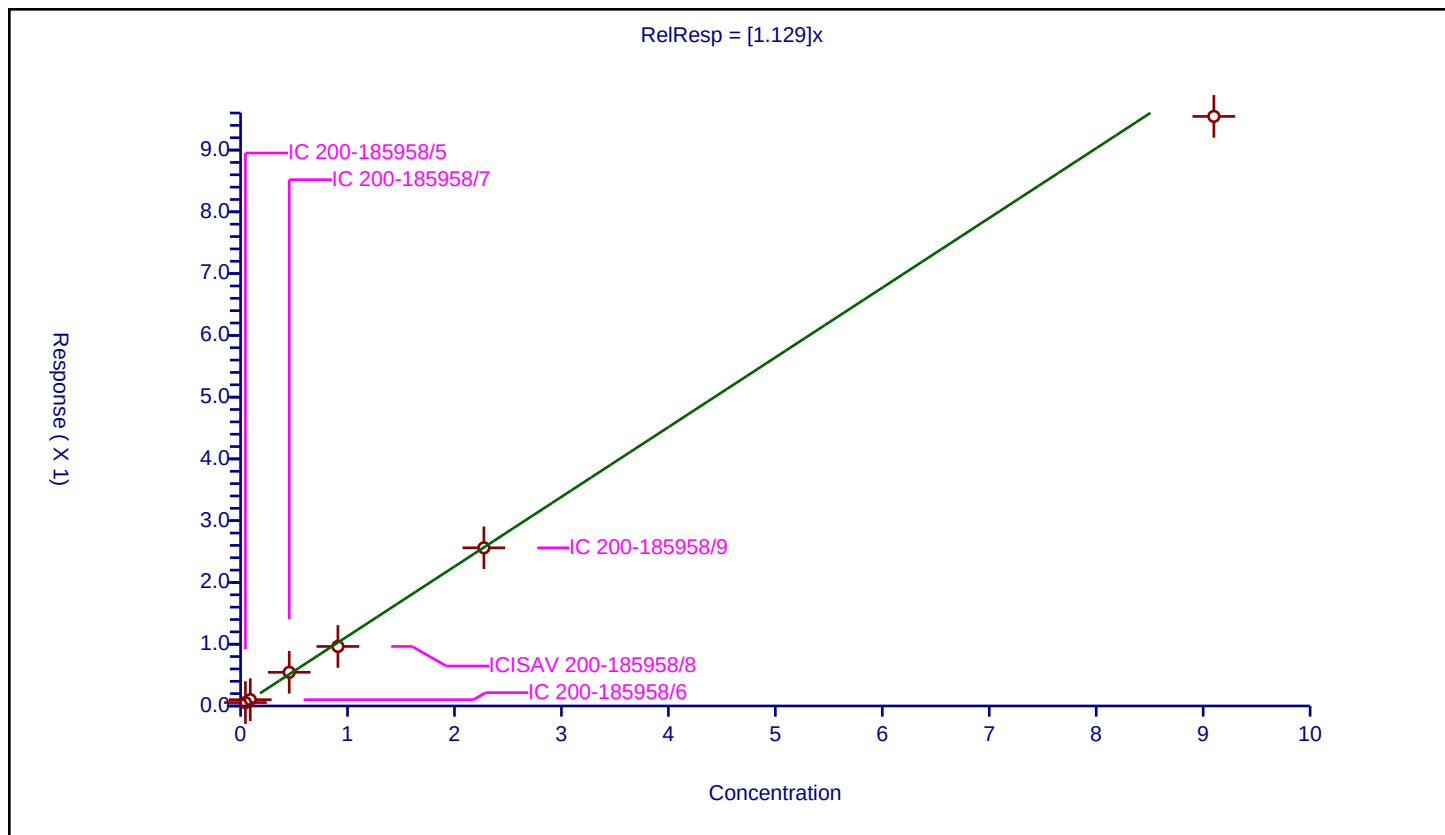
Curve Coefficients

Intercept: 0
 Slope: 1.129

Error Coefficients

Standard Error: 5350000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0455	0.055357	1.1825	1483321.0	1.216629	Y
2	IC 200-185958/6	0.091	0.10215	1.1825	1507942.0	1.122525	Y
3	IC 200-185958/7	0.455	0.545667	1.1825	1474490.0	1.199267	Y
4	ICISAV 200-185958/8	0.91	0.963656	1.1825	1449028.0	1.058963	Y
5	IC 200-185958/9	2.275	2.560878	1.1825	1485775.0	1.125661	Y
6	IC 200-185958/10	9.1	9.544961	1.1825	1417084.0	1.048897	Y



Calibration

/ Perfluoroheptanoic acid

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

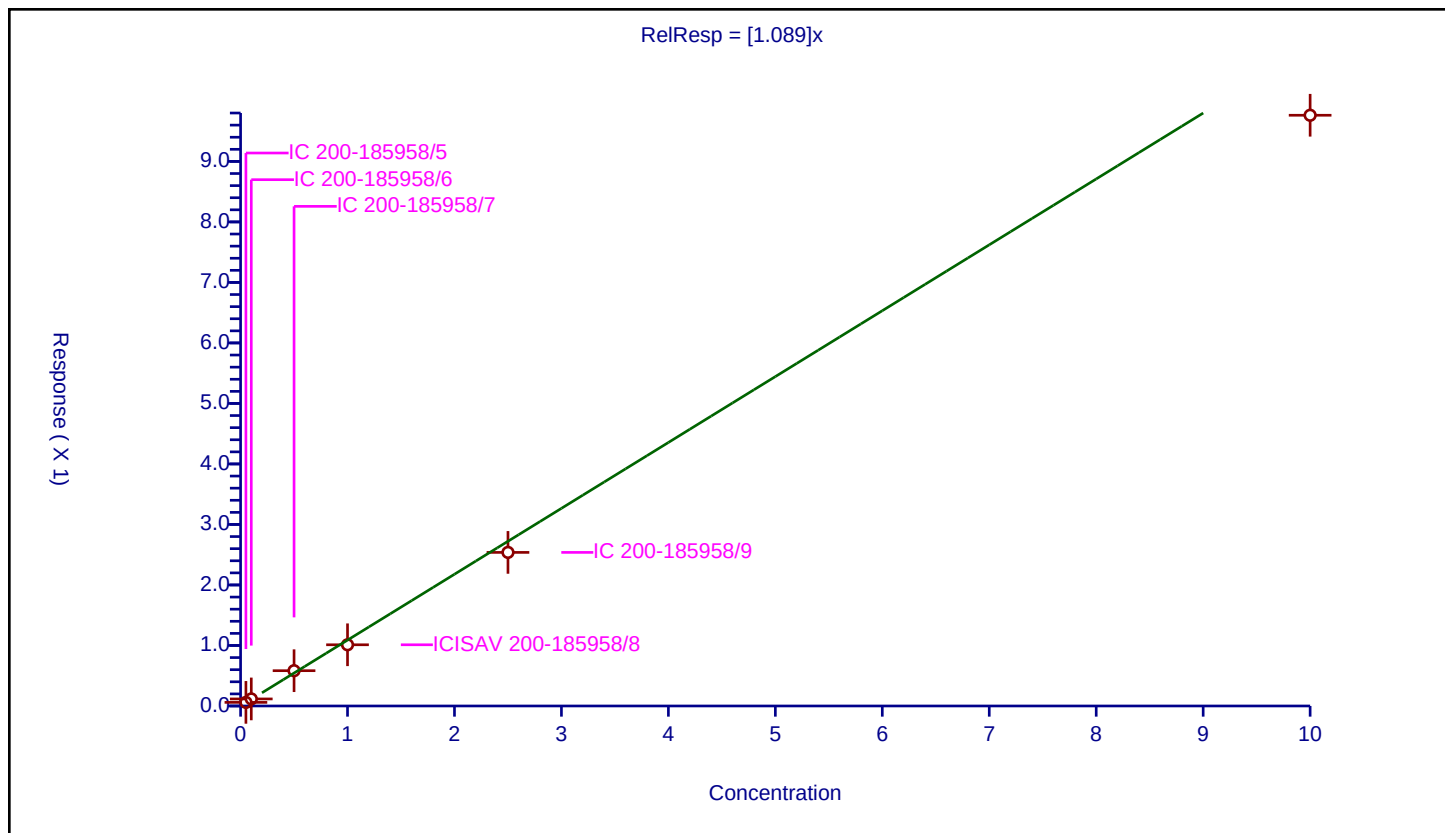
Curve Coefficients

Intercept: 0
 Slope: 1.089

Error Coefficients

Standard Error: 7240000
 Relative Standard Error: 9.0
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059812	1.25	2099356.0	1.196236	Y
2	IC 200-185958/6	0.1	0.116645	1.25	2087570.0	1.166446	Y
3	IC 200-185958/7	0.5	0.583295	1.25	2150118.0	1.166589	Y
4	ICISAV 200-185958/8	1.0	1.011758	1.25	2123066.0	1.011758	Y
5	IC 200-185958/9	2.5	2.538419	1.25	2271049.0	1.015368	Y
6	IC 200-185958/10	10.0	9.762974	1.25	1969787.0	0.976297	Y



Calibration

/ DONA

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

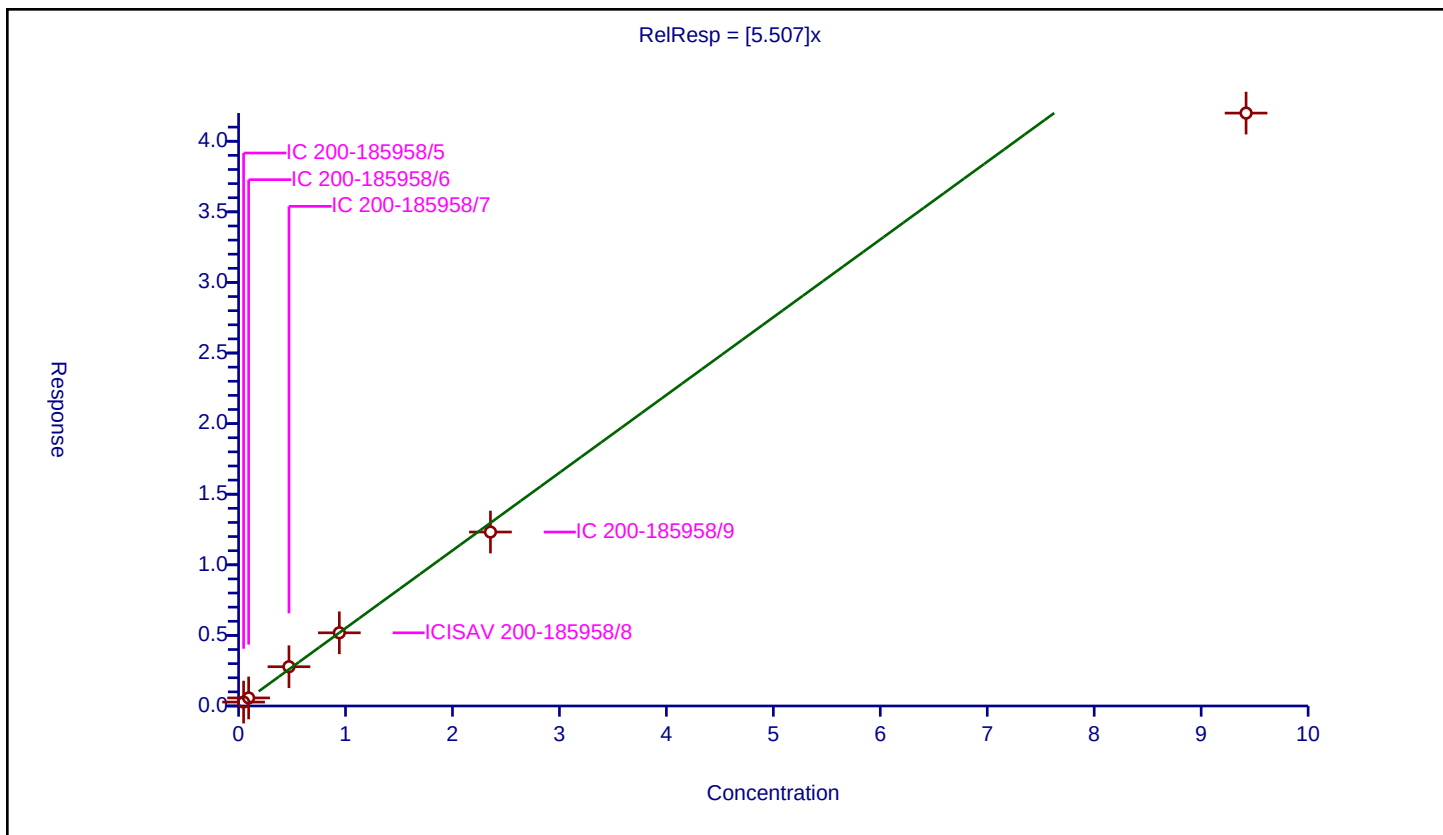
Curve Coefficients

Intercept: 0
Slope: 5.507

Error Coefficients

Standard Error: 16500000
Relative Standard Error: 10.9
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0471	0.276629	1.195	989045.0	5.873234	Y
2	IC 200-185958/6	0.0942	0.571824	1.195	1010315.0	6.070323	Y
3	IC 200-185958/7	0.471	2.781198	1.195	1035061.0	5.904879	Y
4	ICISAV 200-185958/8	0.942	5.184478	1.195	967441.0	5.503692	Y
5	IC 200-185958/9	2.355	12.321992	1.195	1049764.0	5.232268	Y
6	IC 200-185958/10	9.42	41.995038	1.195	993714.0	4.458072	Y



Calibration

/ Perfluoroheptanesulfonic acid

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

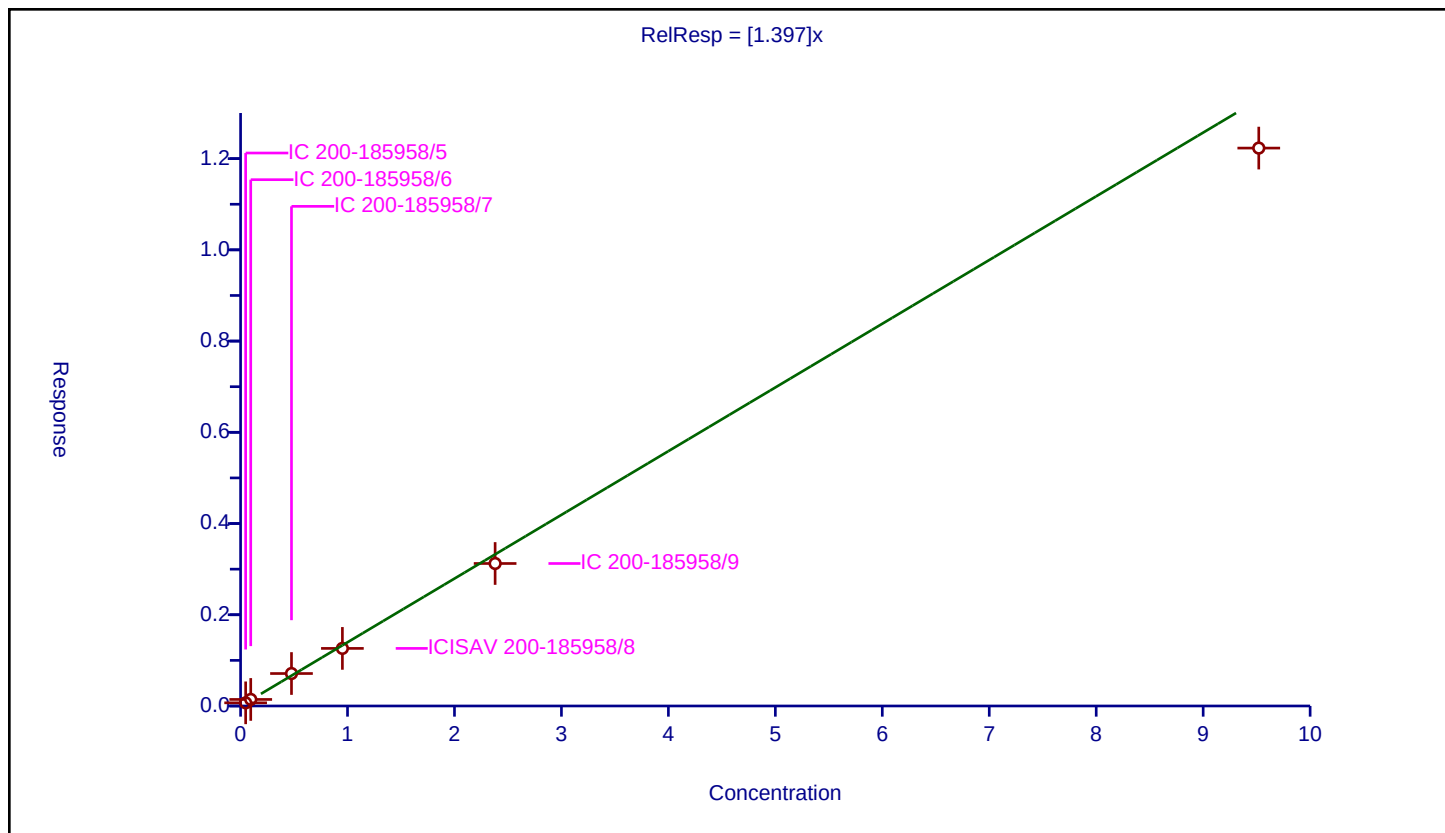
Curve Coefficients

Intercept: 0
 Slope: 1.397

Error Coefficients

Standard Error: 4740000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0476	0.069184	1.195	989045.0	1.453437	Y
2	IC 200-185958/6	0.0952	0.143591	1.195	1010315.0	1.508305	Y
3	IC 200-185958/7	0.476	0.711751	1.195	1035061.0	1.495275	Y
4	ICISAV 200-185958/8	0.952	1.262274	1.195	967441.0	1.325918	Y
5	IC 200-185958/9	2.38	3.123937	1.195	1049764.0	1.312579	Y
6	IC 200-185958/10	9.52	12.23132	1.195	993714.0	1.284802	Y



Calibration

/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

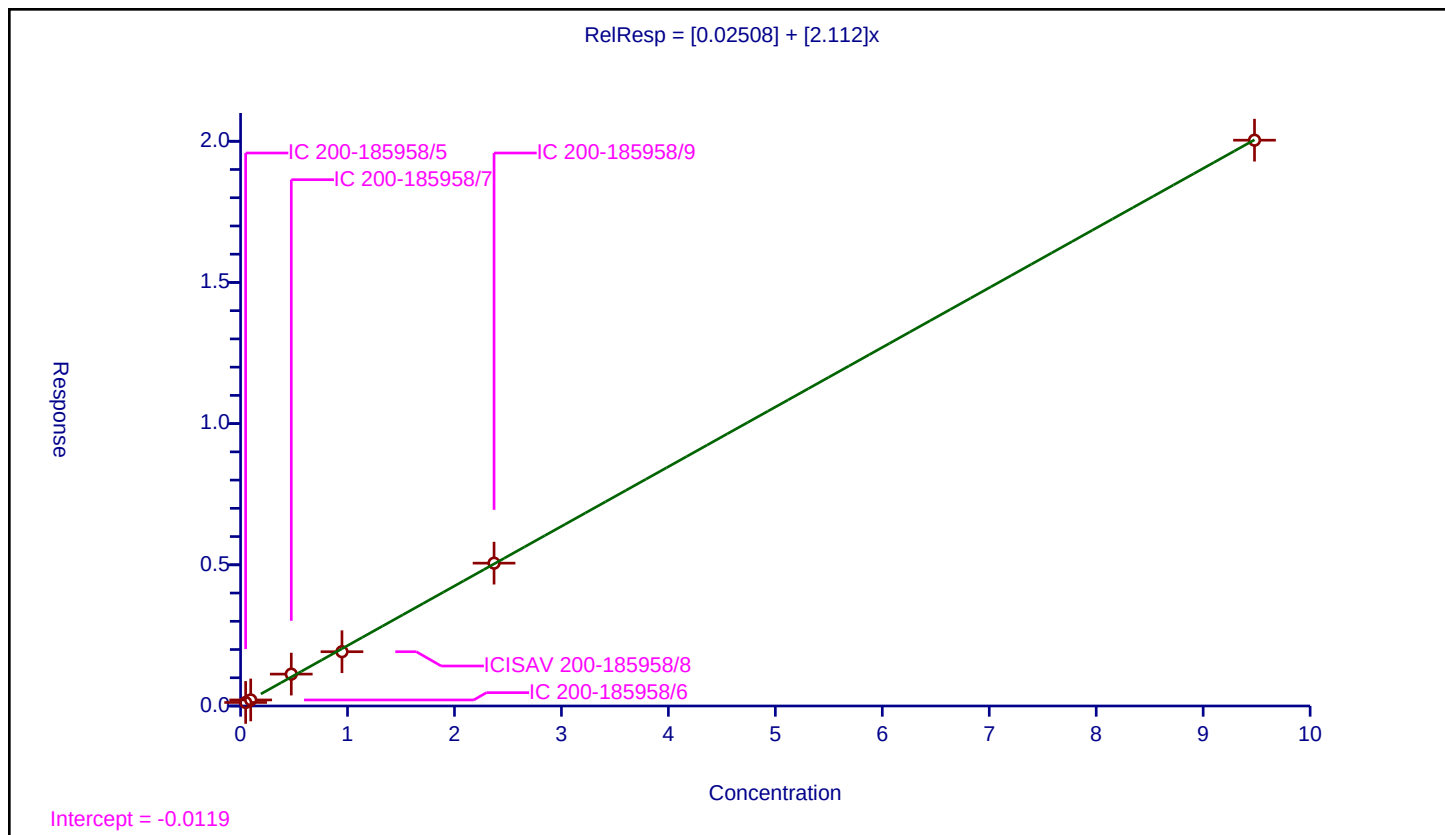
Curve Coefficients

Intercept: 0.02508
Slope: 2.112

Error Coefficients

Standard Error: 1960000
Relative Standard Error: 6.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0474	0.125278	1.1875	255115.0	2.643002	Y
2	IC 200-185958/6	0.0948	0.214255	1.1875	254748.0	2.260075	Y
3	IC 200-185958/7	0.474	1.129262	1.1875	247623.0	2.38241	Y
4	ICISAV 200-185958/8	0.948	1.921884	1.1875	249636.0	2.027304	Y
5	IC 200-185958/9	2.37	5.059011	1.1875	257709.0	2.134604	Y
6	IC 200-185958/10	9.48	20.037836	1.1875	221871.0	2.113696	Y



Calibration

/ Perfluorooctanoic acid

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

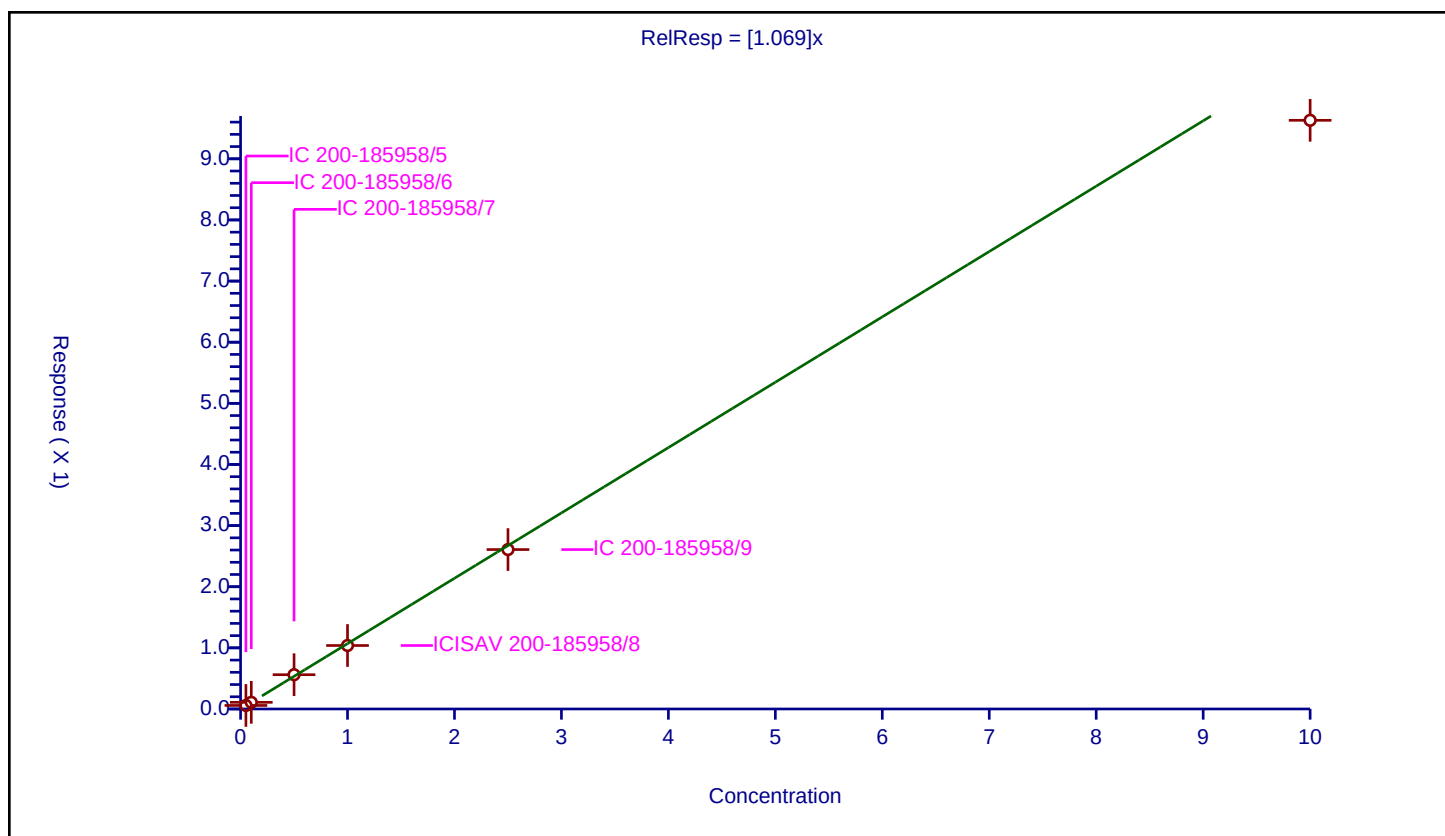
Curve Coefficients

Intercept: 0
Slope: 1.069

Error Coefficients

Standard Error: 8010000
Relative Standard Error: 6.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057928	1.25	2369880.0	1.158561	Y
2	IC 200-185958/6	0.1	0.10893	1.25	2369406.0	1.089303	Y
3	IC 200-185958/7	0.5	0.56085	1.25	2474245.0	1.1217	Y
4	ICISAV 200-185958/8	1.0	1.038544	1.25	2342274.0	1.038544	Y
5	IC 200-185958/9	2.5	2.607899	1.25	2522753.0	1.04316	Y
6	IC 200-185958/10	10.0	9.629585	1.25	2203793.0	0.962958	Y



Calibration

/ Perfluorooctanesulfonic acid

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

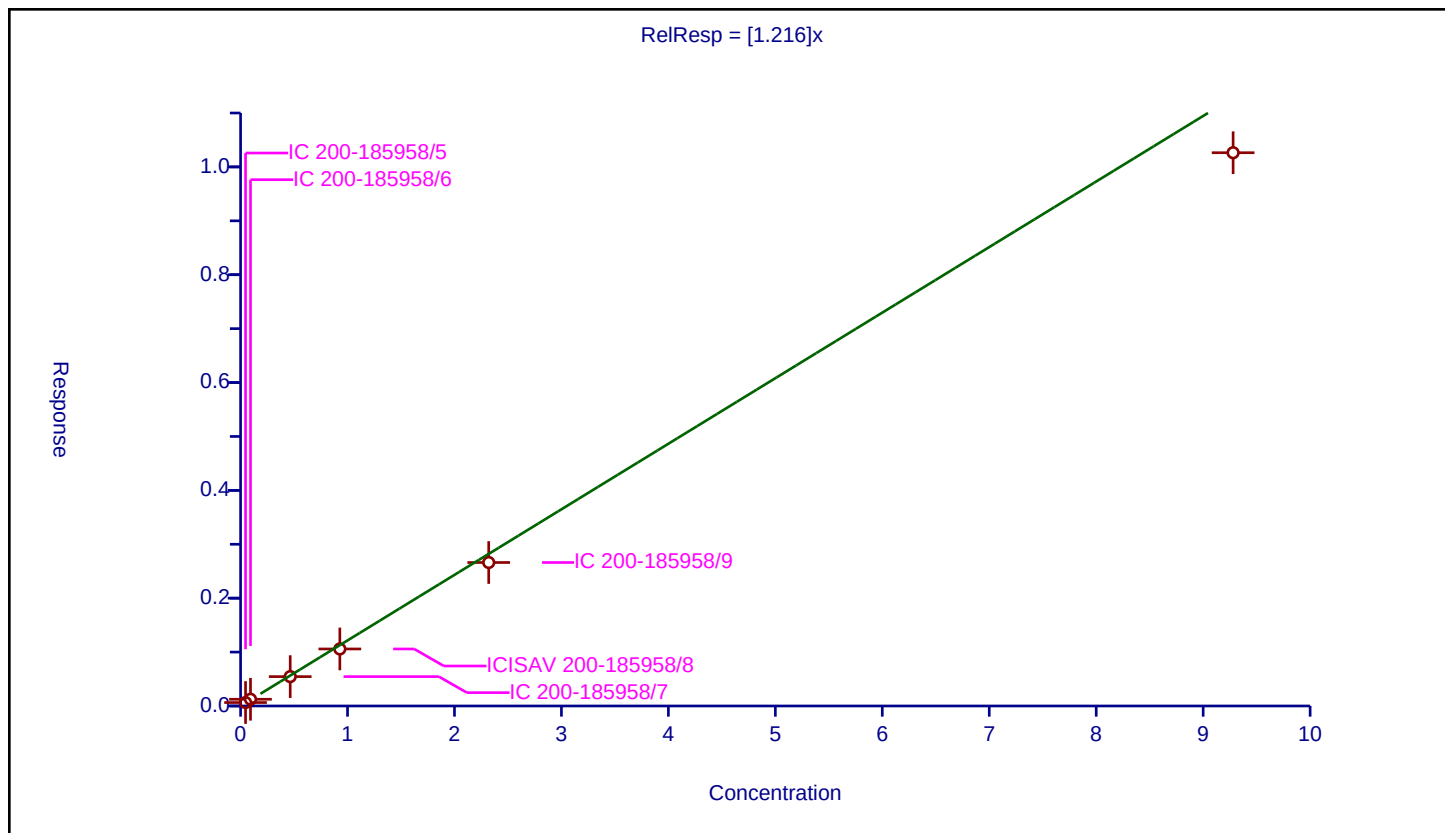
Curve Coefficients

Intercept: 0
 Slope: 1.216

Error Coefficients

Standard Error: 3980000
 Relative Standard Error: 9.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0464	0.064237	1.195	989045.0	1.38442	Y
2	IC 200-185958/6	0.0928	0.124818	1.195	1010315.0	1.345026	Y
3	IC 200-185958/7	0.464	0.544794	1.195	1035061.0	1.174126	Y
4	ICISAV 200-185958/8	0.928	1.057996	1.195	967441.0	1.140082	Y
5	IC 200-185958/9	2.32	2.66153	1.195	1049764.0	1.147211	Y
6	IC 200-185958/10	9.28	10.263454	1.195	993714.0	1.105976	Y



Calibration

/ Perfluorononanoic acid

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

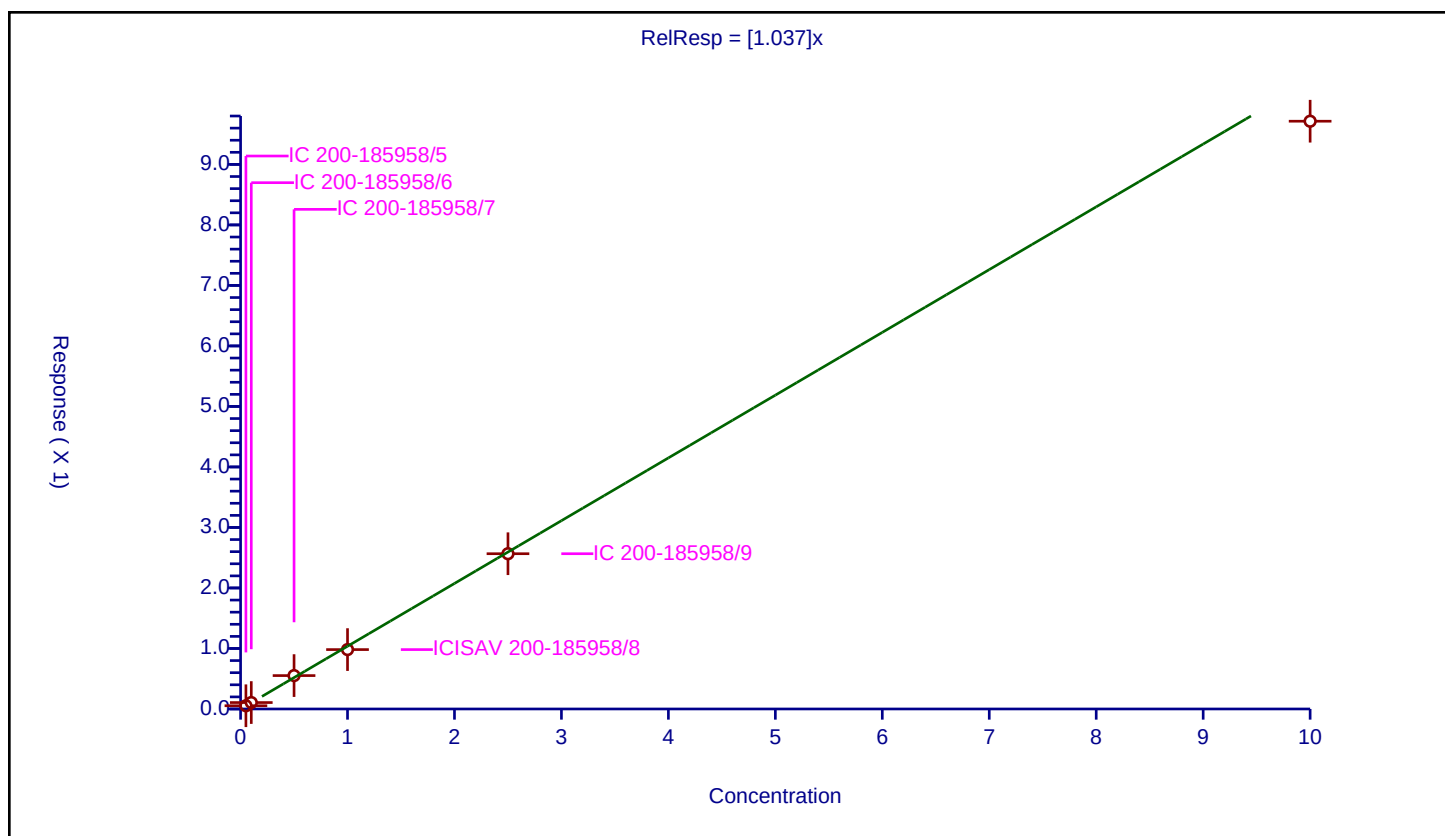
Curve Coefficients

Intercept: 0
 Slope: 1.037

Error Coefficients

Standard Error: 7690000
 Relative Standard Error: 5.1
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.053731	1.25	2280957.0	1.074615	Y
2	IC 200-185958/6	0.1	0.106615	1.25	2362013.0	1.066146	Y
3	IC 200-185958/7	0.5	0.551805	1.25	2379680.0	1.10361	Y
4	ICISAV 200-185958/8	1.0	0.981878	1.25	2356501.0	0.981878	Y
5	IC 200-185958/9	2.5	2.566207	1.25	2401890.0	1.026483	Y
6	IC 200-185958/10	10.0	9.713994	1.25	2102974.0	0.971399	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

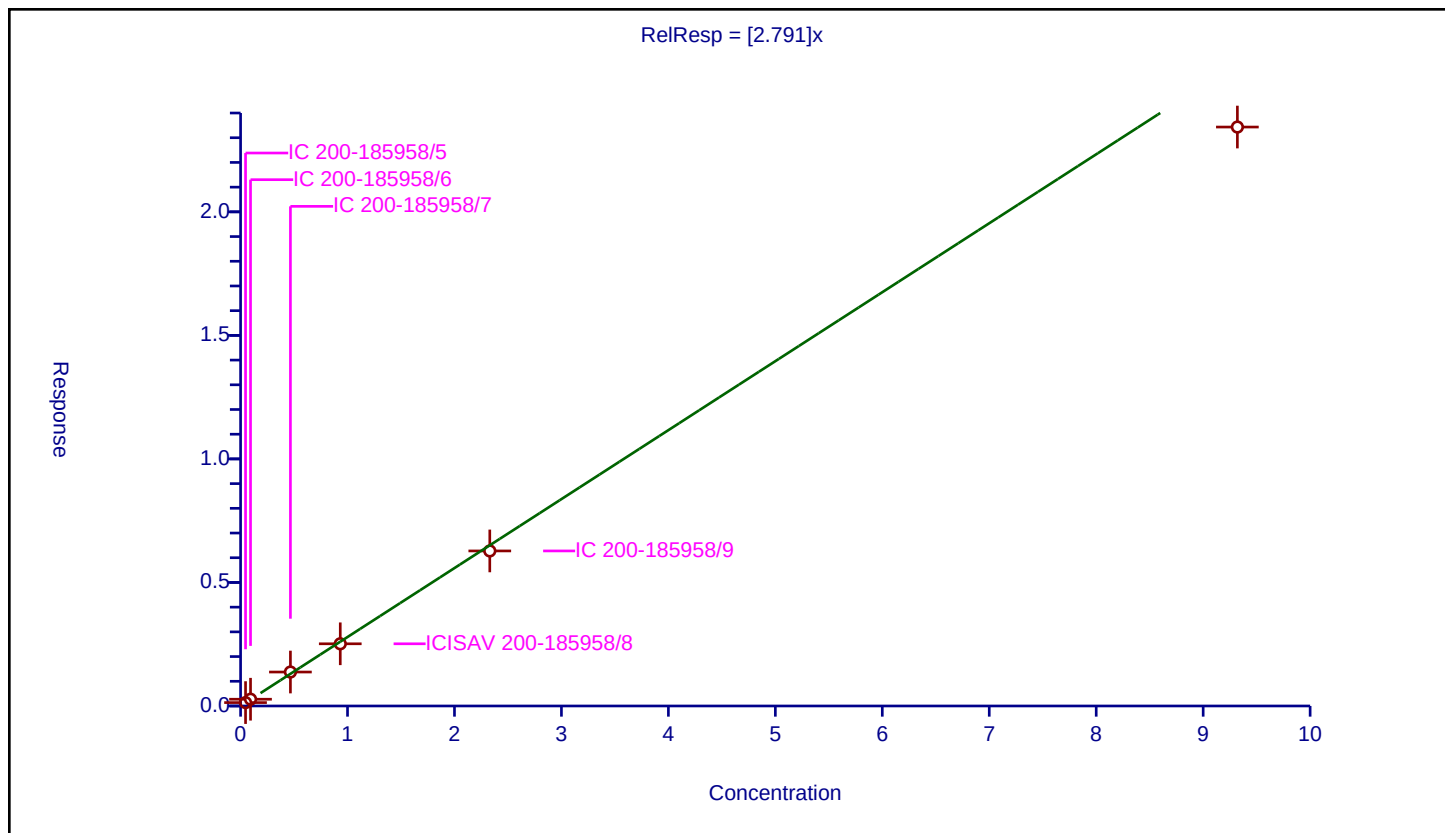
Curve Coefficients

Intercept: 0
 Slope: 2.791

Error Coefficients

Standard Error: 9120000
 Relative Standard Error: 6.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0466	0.13781	1.195	989045.0	2.957301	Y
2	IC 200-185958/6	0.0932	0.273121	1.195	1010315.0	2.930487	Y
3	IC 200-185958/7	0.466	1.375015	1.195	1035061.0	2.950677	Y
4	ICISAV 200-185958/8	0.932	2.517272	1.195	967441.0	2.700935	Y
5	IC 200-185958/9	2.33	6.275684	1.195	1049764.0	2.693427	Y
6	IC 200-185958/10	9.32	23.431976	1.195	993714.0	2.514161	Y



Calibration

/ Perfluorononanesulfonic acid

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

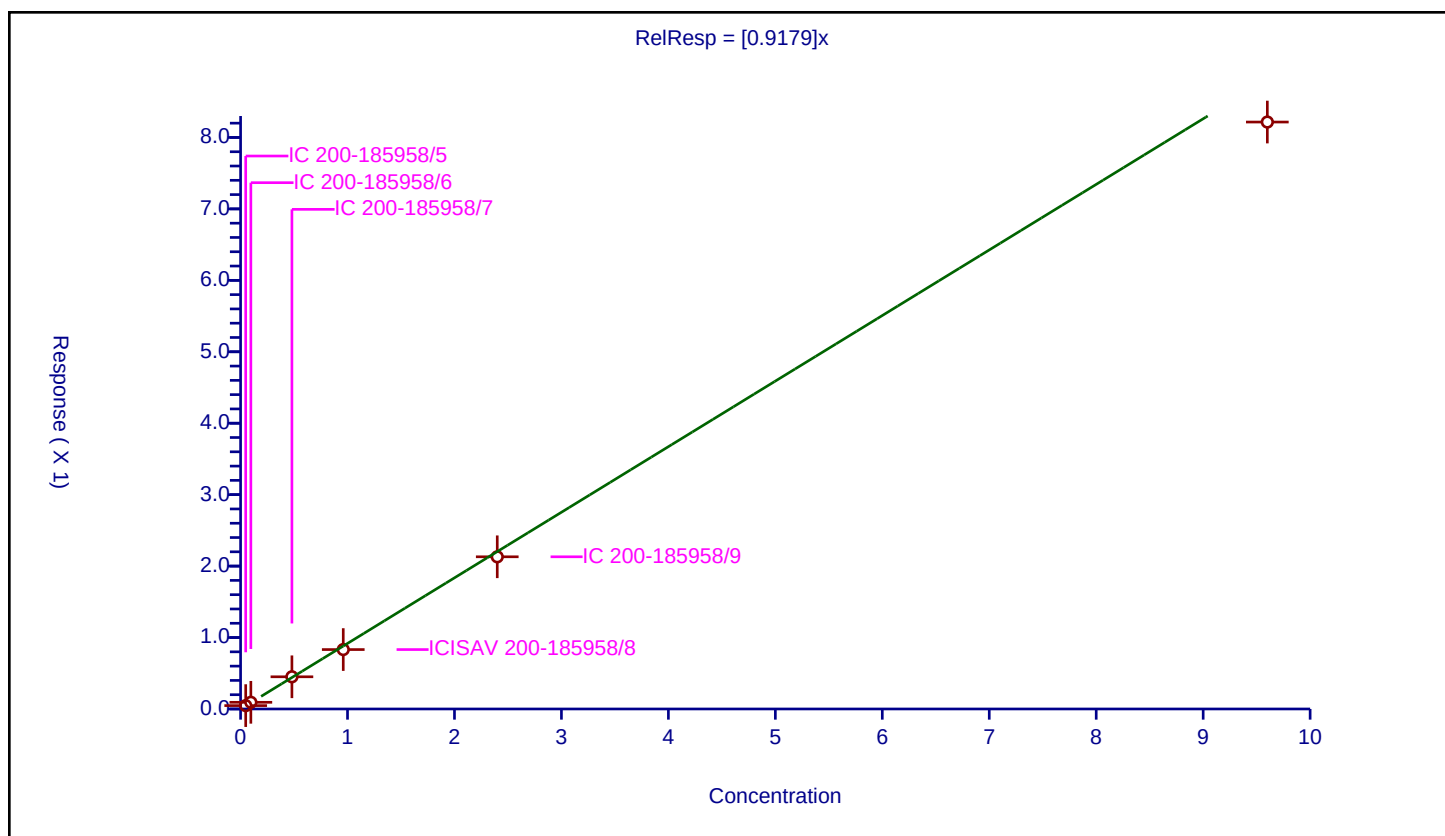
Curve Coefficients

Intercept: 0
Slope: 0.9179

Error Coefficients

Standard Error: 3190000
Relative Standard Error: 6.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.048	0.04718	1.195	989045.0	0.982925	Y
2	IC 200-185958/6	0.096	0.093669	1.195	1010315.0	0.975723	Y
3	IC 200-185958/7	0.48	0.450766	1.195	1035061.0	0.939095	Y
4	ICISAV 200-185958/8	0.96	0.831668	1.195	967441.0	0.866321	Y
5	IC 200-185958/9	2.4	2.130194	1.195	1049764.0	0.887581	Y
6	IC 200-185958/10	9.6	8.215732	1.195	993714.0	0.855805	Y



Calibration

/ Perfluorodecanoic acid

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

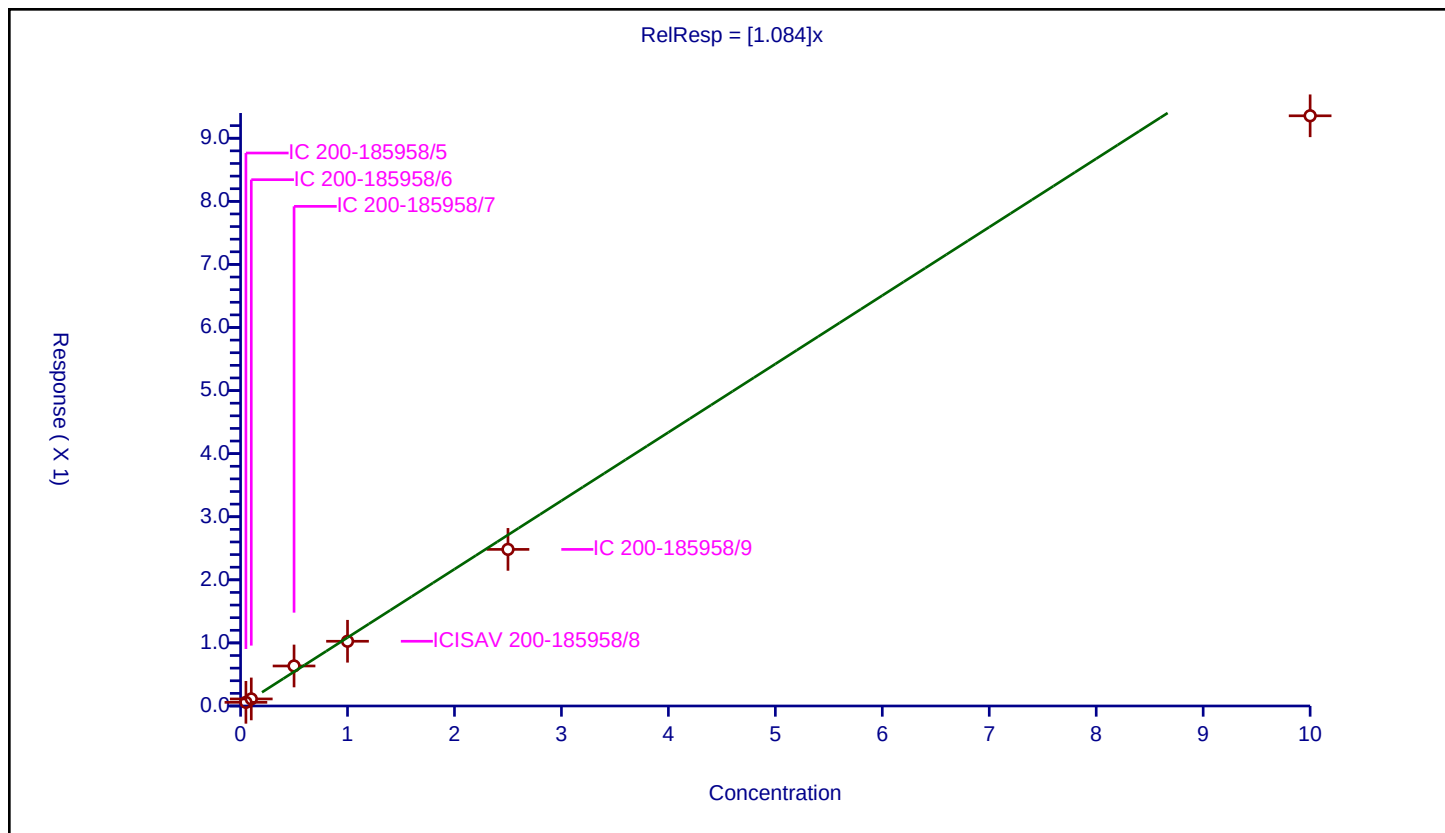
Curve Coefficients

Intercept: 0
Slope: 1.084

Error Coefficients

Standard Error: 7850000
Relative Standard Error: 11.3
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.058304	1.25	2260154.0	1.166082	Y
2	IC 200-185958/6	0.1	0.11171	1.25	2439344.0	1.117098	Y
3	IC 200-185958/7	0.5	0.634421	1.25	2334094.0	1.268842	Y
4	ICISAV 200-185958/8	1.0	1.026097	1.25	2384612.0	1.026097	Y
5	IC 200-185958/9	2.5	2.482655	1.25	2491665.0	0.993062	Y
6	IC 200-185958/10	10.0	9.356046	1.25	2229691.0	0.935605	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

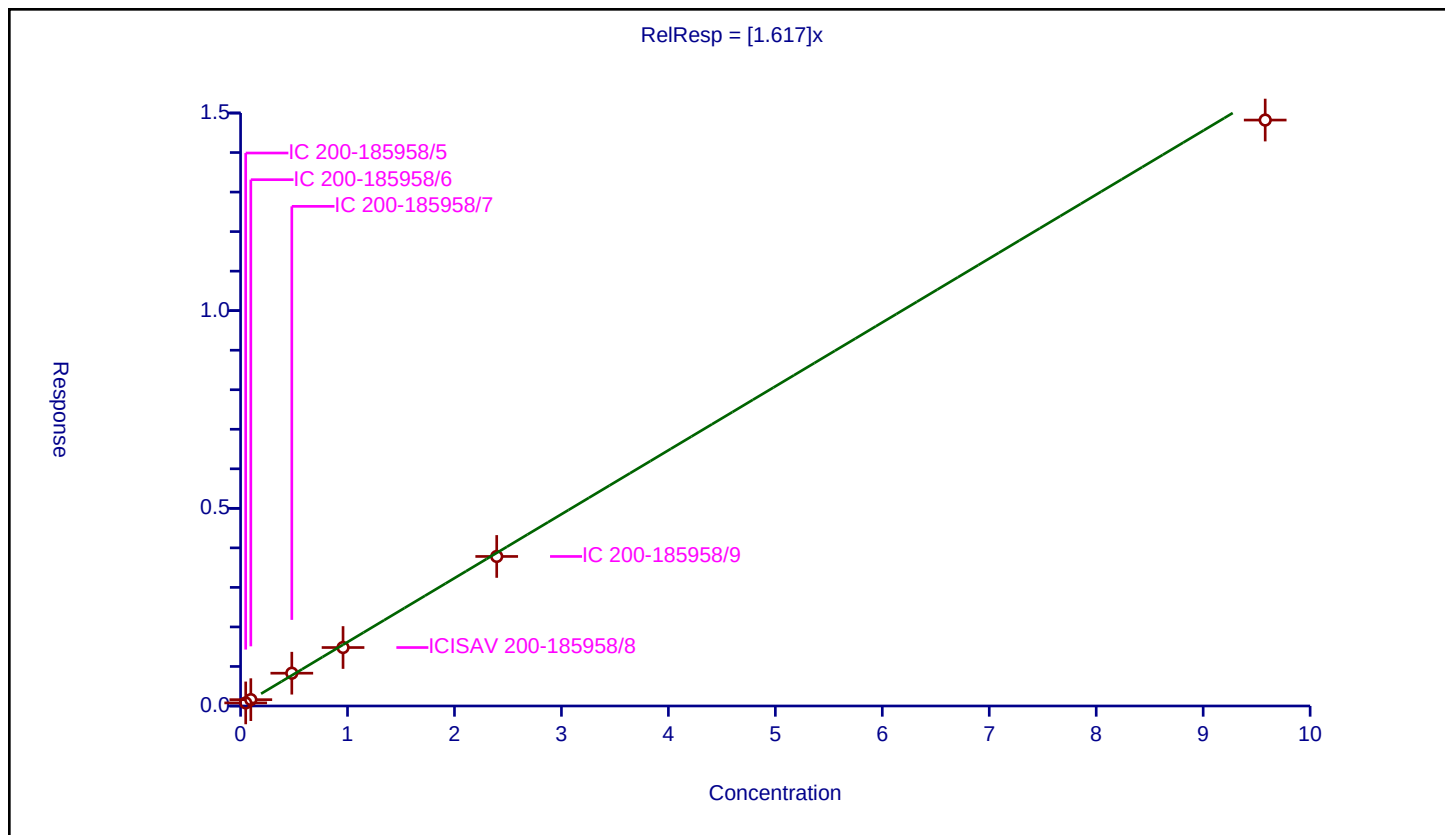
Curve Coefficients

Intercept: 0
 Slope: 1.617

Error Coefficients

Standard Error: 1610000
 Relative Standard Error: 4.6
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0479	0.07804	1.1975	306939.0	1.629233	Y
2	IC 200-185958/6	0.0958	0.159992	1.1975	307241.0	1.670065	Y
3	IC 200-185958/7	0.479	0.829647	1.1975	321045.0	1.732039	Y
4	ICISAV 200-185958/8	0.958	1.479261	1.1975	300249.0	1.544114	Y
5	IC 200-185958/9	2.395	3.782944	1.1975	321188.0	1.579517	Y
6	IC 200-185958/10	9.58	14.82207	1.1975	277266.0	1.547189	Y



Calibration

/ Perfluorooctanesulfonamide

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

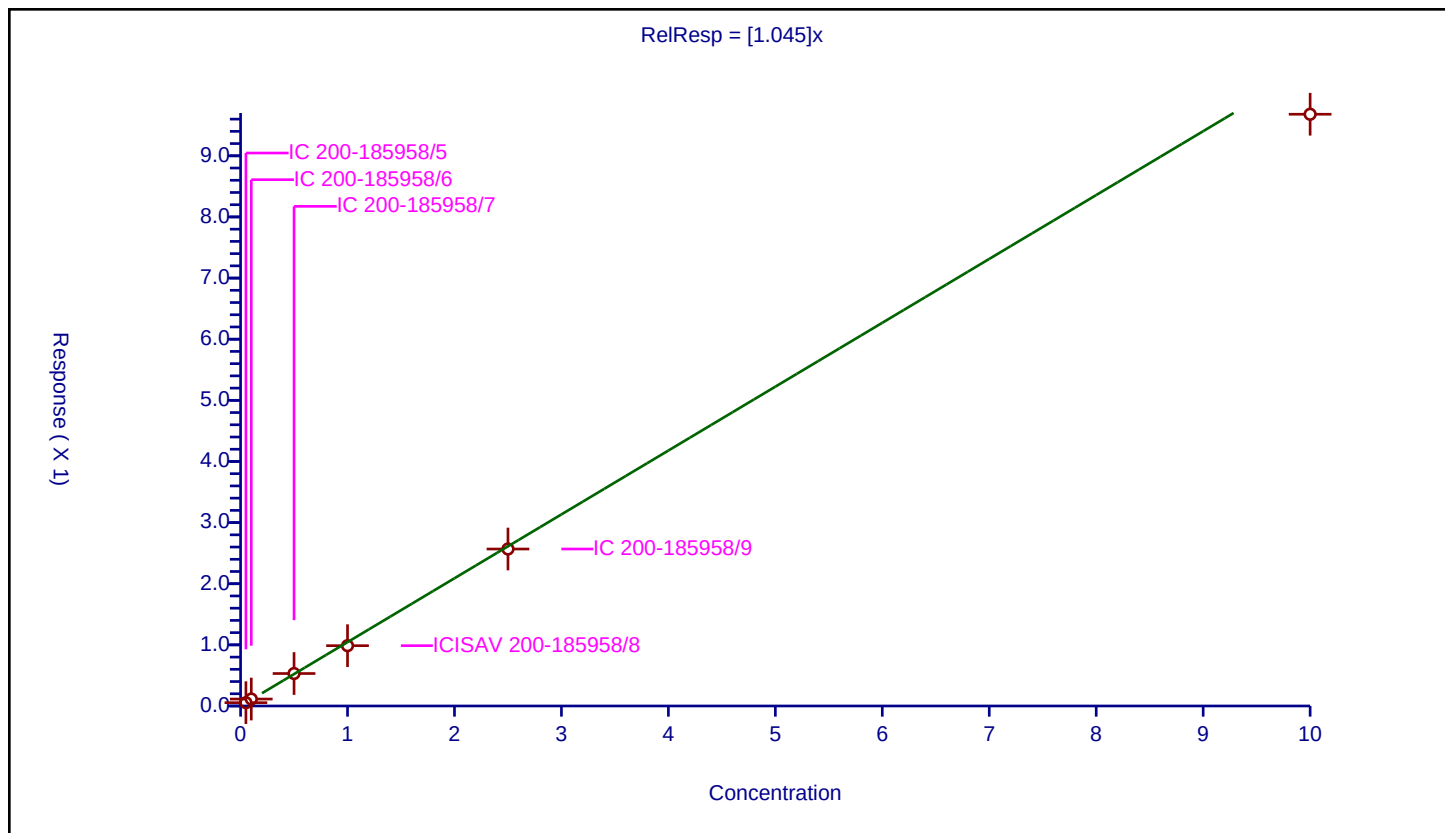
Curve Coefficients

Intercept: 0
 Slope: 1.045

Error Coefficients

Standard Error: 6920000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.054343	1.25	1923900.0	1.086868	Y
2	IC 200-185958/6	0.1	0.113824	1.25	1899612.0	1.138239	Y
3	IC 200-185958/7	0.5	0.53088	1.25	1967036.0	1.06176	Y
4	ICISAV 200-185958/8	1.0	0.986482	1.25	1879604.0	0.986482	Y
5	IC 200-185958/9	2.5	2.567614	1.25	1993351.0	1.027045	Y
6	IC 200-185958/10	10.0	9.680002	1.25	1914897.0	0.968	Y



Calibration

/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

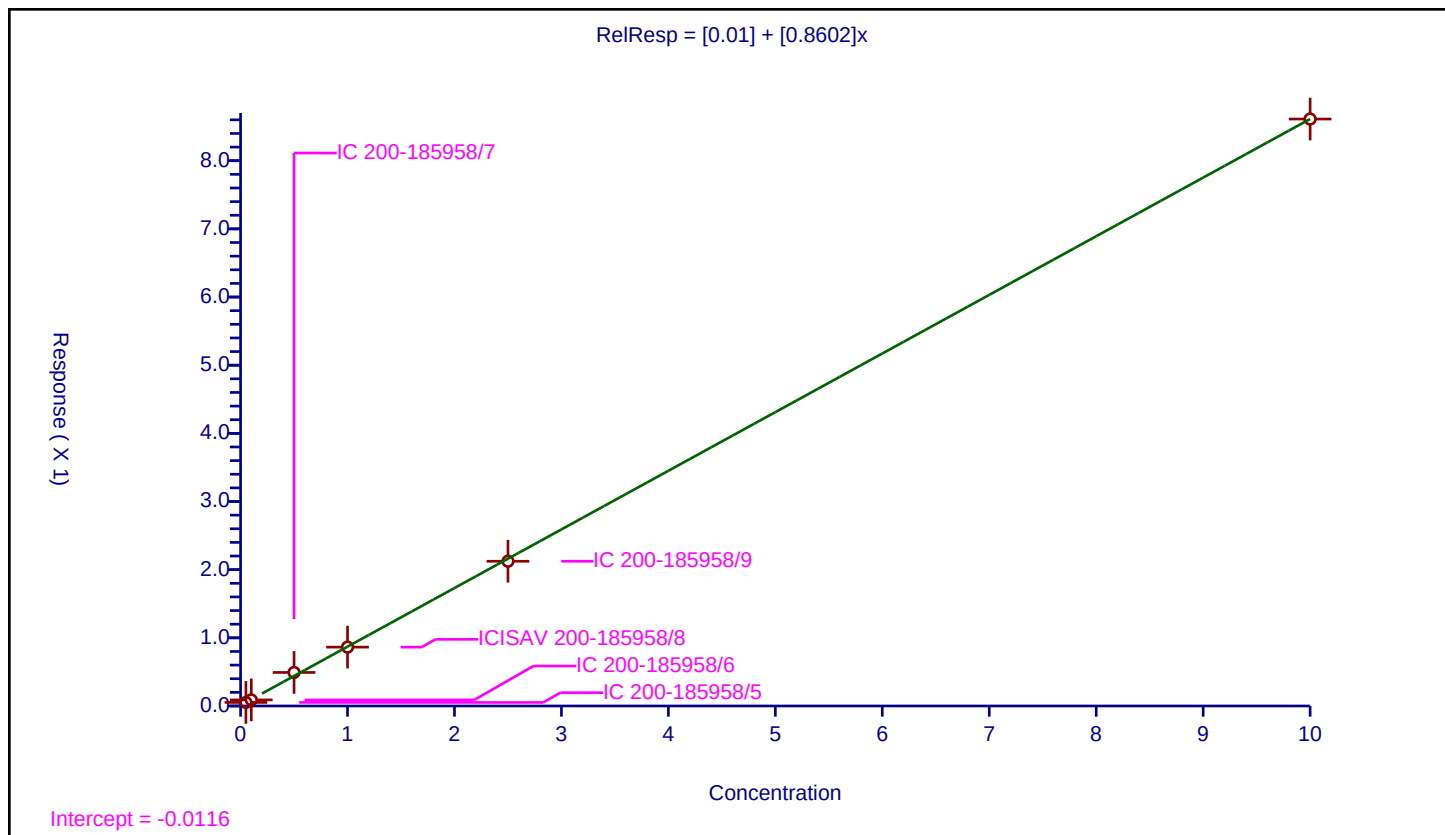
Curve Coefficients

Intercept: 0.01
 Slope: 0.8602

Error Coefficients

Standard Error: 1720000
 Relative Standard Error: 7.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052273	1.25	467975.0	1.045462	Y
2	IC 200-185958/6	0.1	0.089246	1.25	478399.0	0.892456	Y
3	IC 200-185958/7	0.5	0.492116	1.25	466044.0	0.984231	Y
4	ICISAV 200-185958/8	1.0	0.863805	1.25	470154.0	0.863805	Y
5	IC 200-185958/9	2.5	2.12358	1.25	514239.0	0.849432	Y
6	IC 200-185958/10	10.0	8.611447	1.25	478582.0	0.861145	Y



Calibration

/ Perfluorodecanesulfonic acid

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

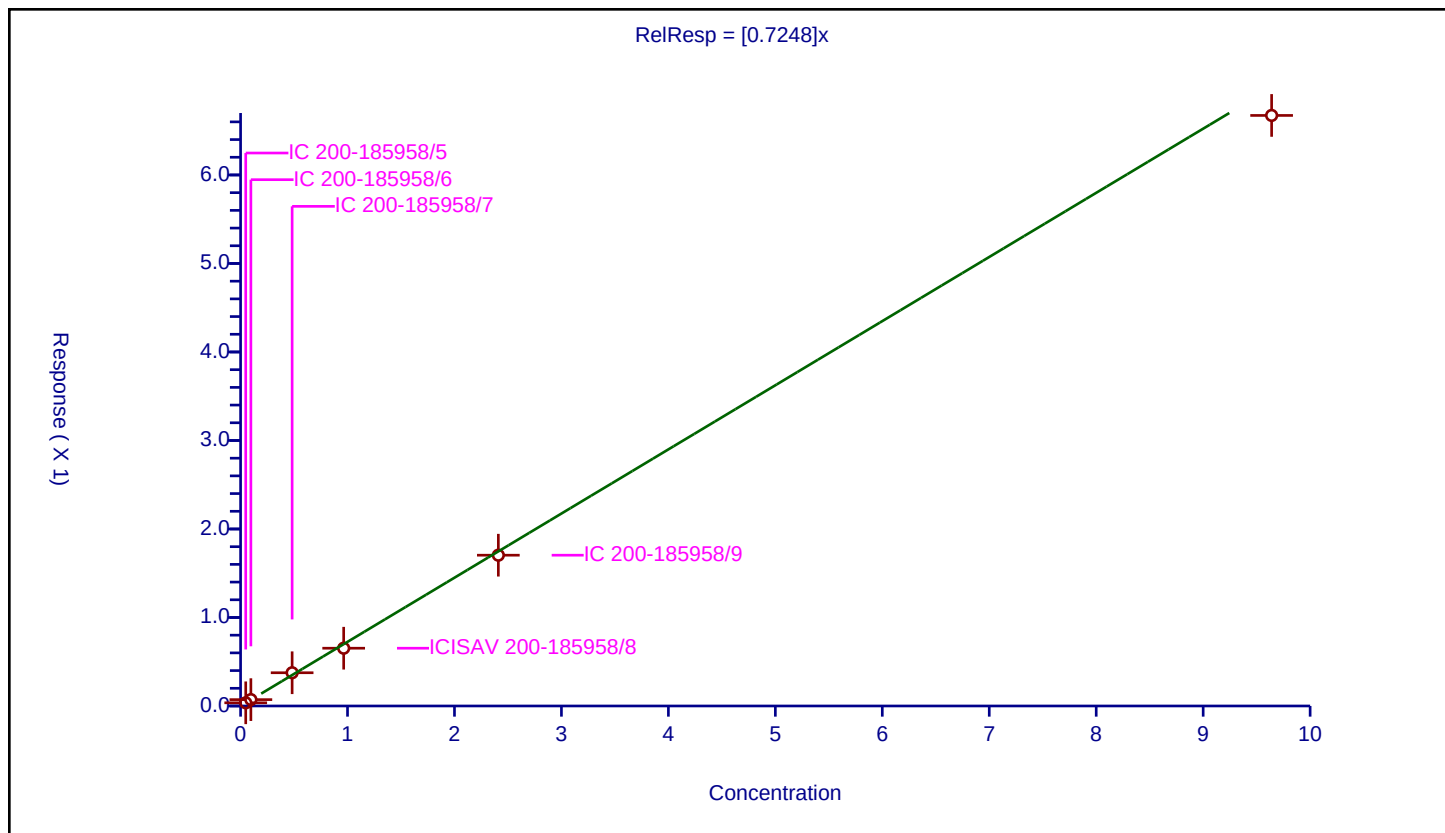
Curve Coefficients

Intercept: 0
 Slope: 0.7248

Error Coefficients

Standard Error: 2590000
 Relative Standard Error: 5.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.036026	1.195	989045.0	0.747427	Y
2	IC 200-185958/6	0.0964	0.071876	1.195	1010315.0	0.745605	Y
3	IC 200-185958/7	0.482	0.375663	1.195	1035061.0	0.779383	Y
4	ICISAV 200-185958/8	0.964	0.652643	1.195	967441.0	0.677016	Y
5	IC 200-185958/9	2.41	1.703873	1.195	1049764.0	0.707001	Y
6	IC 200-185958/10	9.64	6.672602	1.195	993714.0	0.692179	Y



Calibration

/ Perfluoroundecanoic acid

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

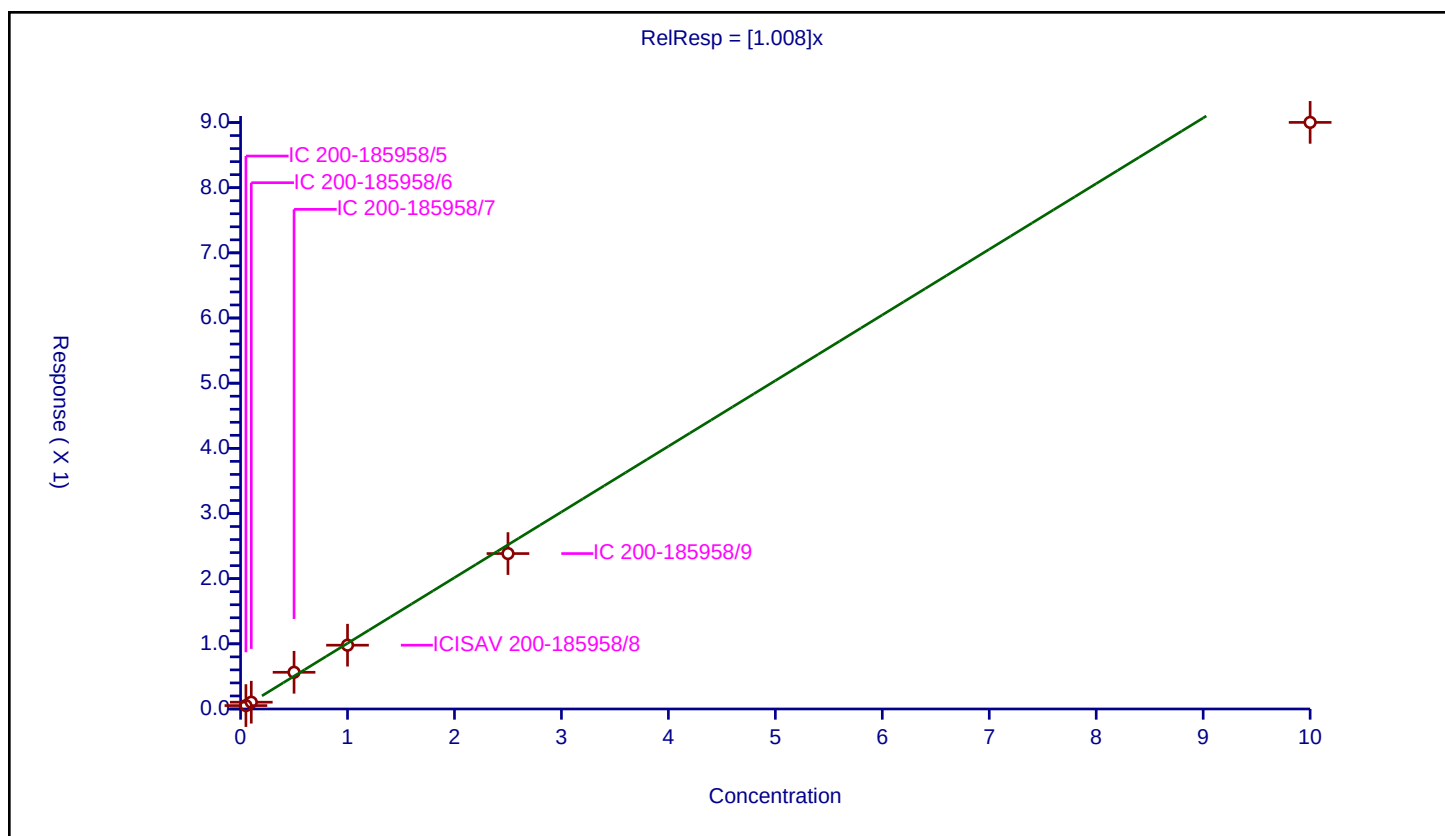
Curve Coefficients

Intercept: 0
Slope: 1.008

Error Coefficients

Standard Error: 6680000
Relative Standard Error: 7.9
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.052323	1.25	2191050.0	1.04645	Y
2	IC 200-185958/6	0.1	0.104069	1.25	2119319.0	1.040688	Y
3	IC 200-185958/7	0.5	0.563221	1.25	2230172.0	1.126441	Y
4	ICISAV 200-185958/8	1.0	0.97893	1.25	2183949.0	0.97893	Y
5	IC 200-185958/9	2.5	2.385205	1.25	2259671.0	0.954082	Y
6	IC 200-185958/10	10.0	9.002235	1.25	1967361.0	0.900224	Y



Calibration

/ N-ethylperfluorooctanesulfonamidoacetic acid

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

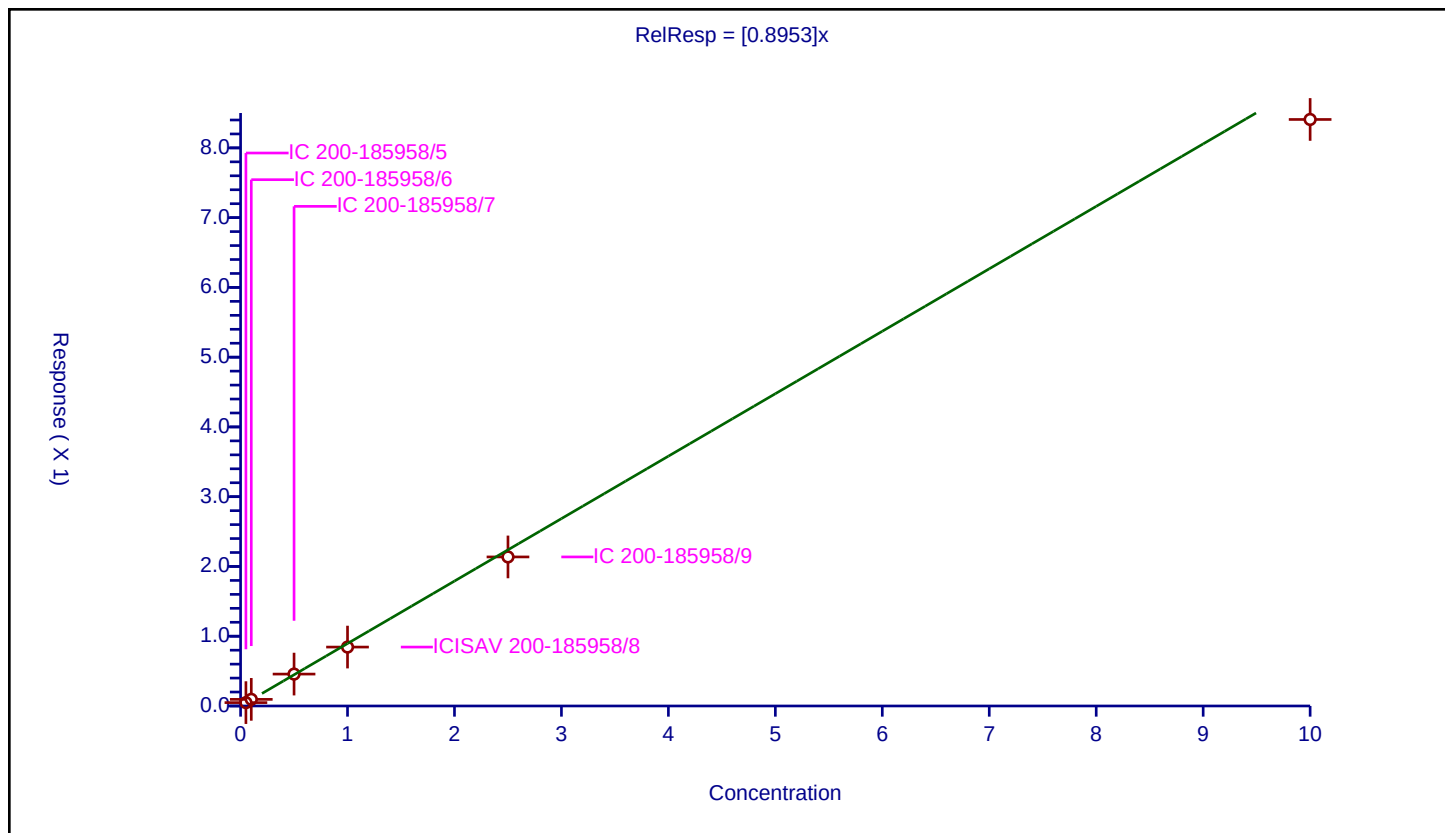
Curve Coefficients

Intercept: 0
 Slope: 0.8953

Error Coefficients

Standard Error: 1400000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.048292	1.25	453643.0	0.965848	Y
2	IC 200-185958/6	0.1	0.095082	1.25	481823.0	0.950816	Y
3	IC 200-185958/7	0.5	0.457326	1.25	498173.0	0.914652	Y
4	ICISAV 200-185958/8	1.0	0.844741	1.25	460360.0	0.844741	Y
5	IC 200-185958/9	2.5	2.136762	1.25	496655.0	0.854705	Y
6	IC 200-185958/10	10.0	8.407446	1.25	444955.0	0.840745	Y



Calibration

/ 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

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

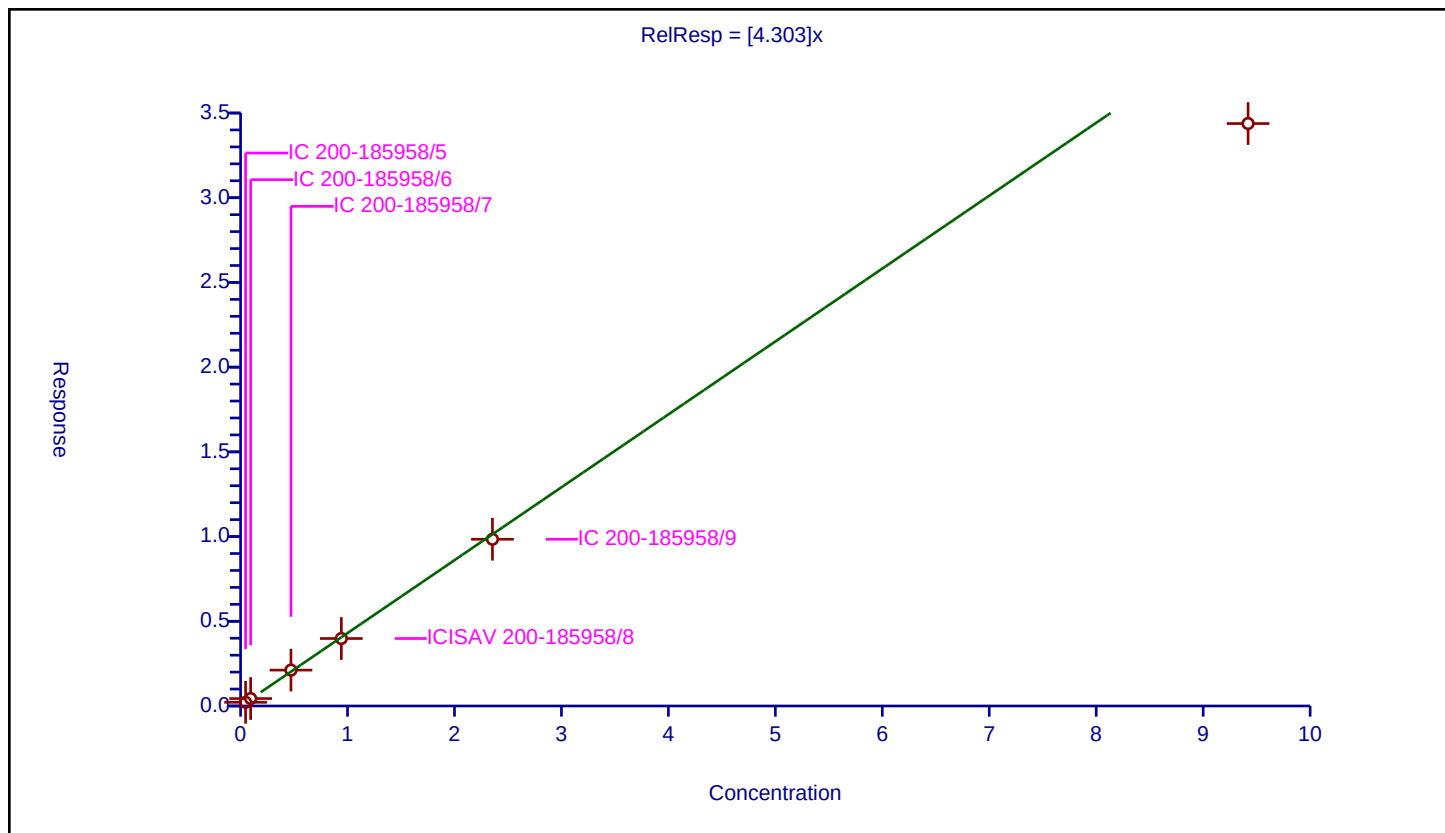
Curve Coefficients

Intercept: 0
 Slope: 4.303

Error Coefficients

Standard Error: 13500000
 Relative Standard Error: 8.7
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0471	0.217404	1.195	989045.0	4.615796	Y
2	IC 200-185958/6	0.0942	0.437852	1.195	1010315.0	4.648113	Y
3	IC 200-185958/7	0.471	2.1174	1.195	1035061.0	4.495542	Y
4	ICISAV 200-185958/8	0.942	3.982746	1.195	967441.0	4.227968	Y
5	IC 200-185958/9	2.355	9.840794	1.195	1049764.0	4.178681	Y
6	IC 200-185958/10	9.42	34.378522	1.195	993714.0	3.649525	Y



Calibration

/ Perfluorododecanoic acid

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

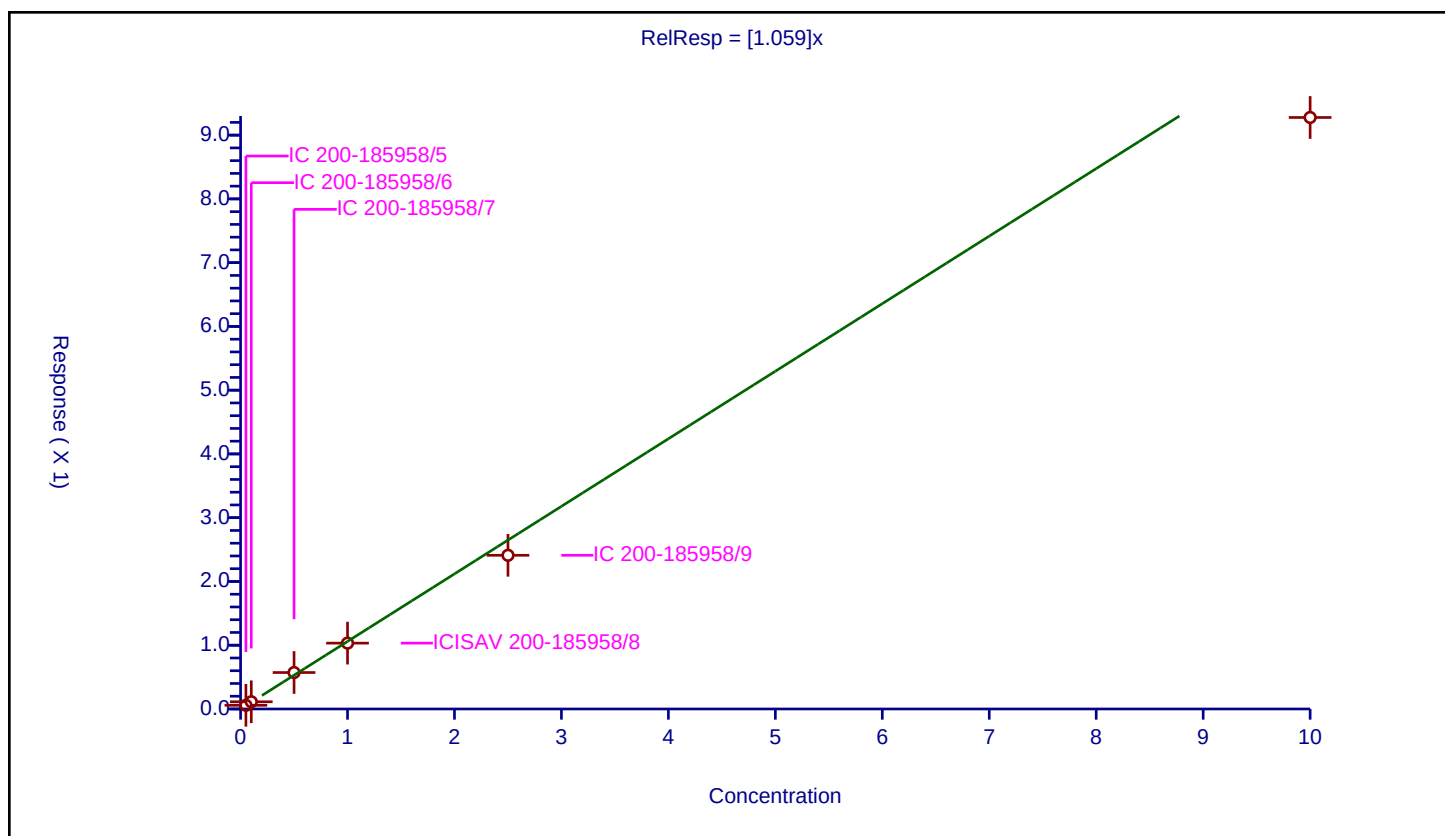
Curve Coefficients

Intercept: 0
Slope: 1.059

Error Coefficients

Standard Error: 7330000
Relative Standard Error: 9.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.057802	1.25	2180352.0	1.15604	Y
2	IC 200-185958/6	0.1	0.11325	1.25	2150435.0	1.132498	Y
3	IC 200-185958/7	0.5	0.571786	1.25	2245926.0	1.143573	Y
4	ICISAV 200-185958/8	1.0	1.032719	1.25	2161023.0	1.032719	Y
5	IC 200-185958/9	2.5	2.410578	1.25	2344331.0	0.964231	Y
6	IC 200-185958/10	10.0	9.277066	1.25	2103698.0	0.927707	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

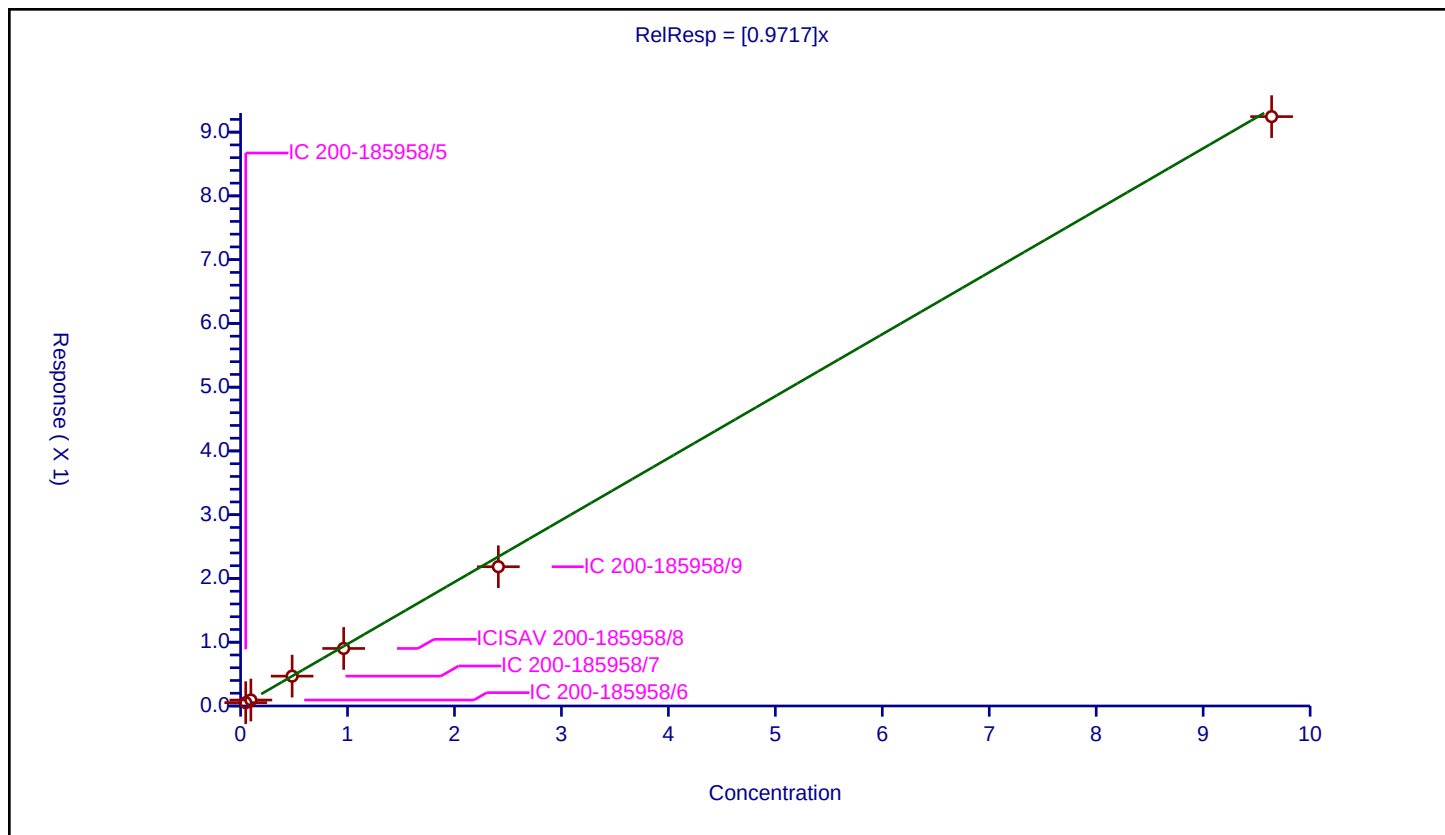
Curve Coefficients

Intercept: 0
 Slope: 0.9717

Error Coefficients

Standard Error: 999000
 Relative Standard Error: 6.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0482	0.052377	1.1975	306939.0	1.086653	Y
2	IC 200-185958/6	0.0964	0.093562	1.1975	307241.0	0.970557	Y
3	IC 200-185958/7	0.482	0.468291	1.1975	321045.0	0.971558	Y
4	ICISAV 200-185958/8	0.964	0.902429	1.1975	300249.0	0.93613	Y
5	IC 200-185958/9	2.41	2.184386	1.1975	321188.0	0.906384	Y
6	IC 200-185958/10	9.64	9.24351	1.1975	277266.0	0.95887	Y



Calibration

/ Perfluorododecanesulfonic acid (PFDoS)

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

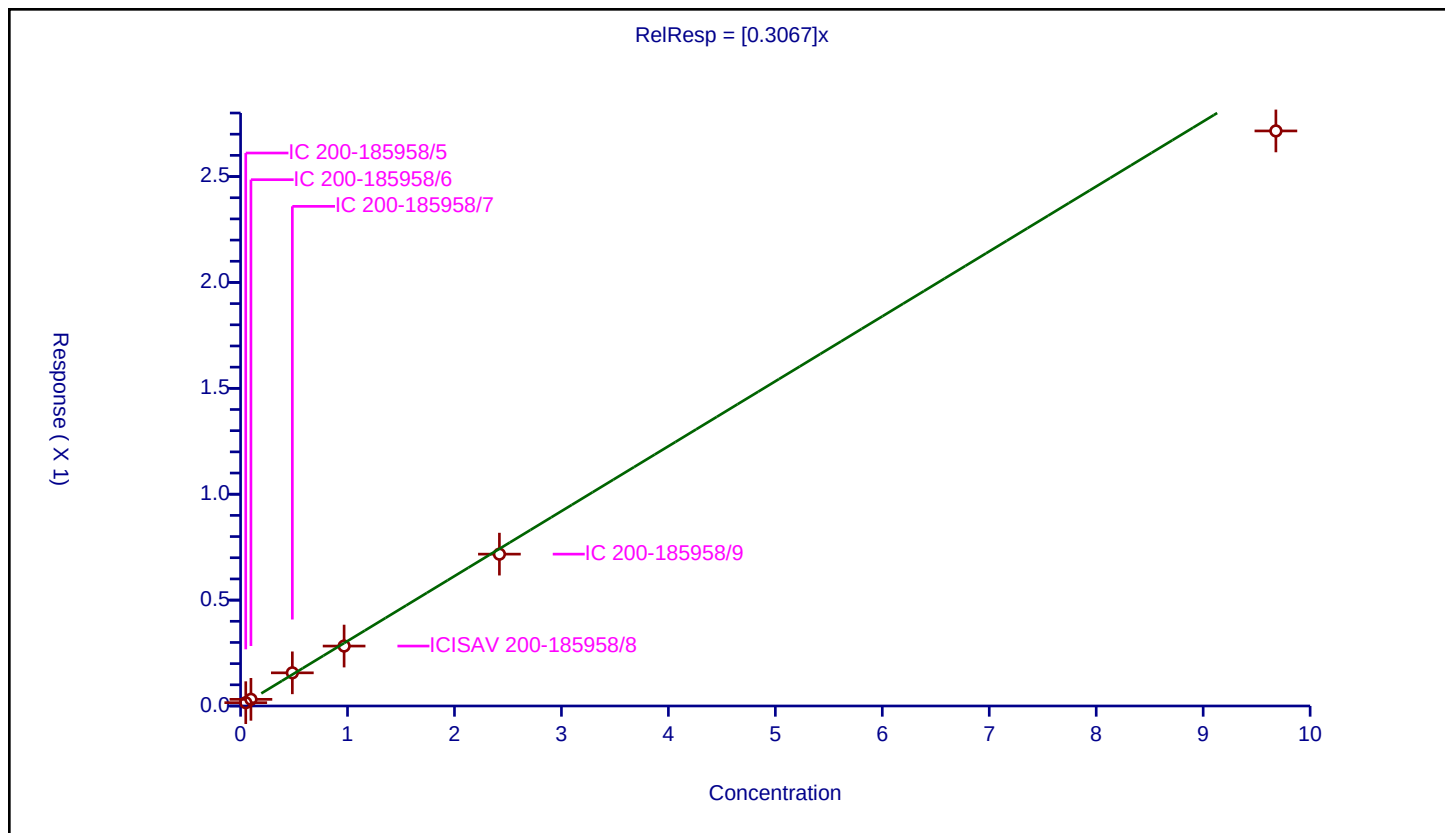
Curve Coefficients

Intercept: 0
Slope: 0.3067

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.0484	0.015619	1.195	989045.0	0.322704	Y
2	IC 200-185958/6	0.0968	0.031406	1.195	1010315.0	0.324439	Y
3	IC 200-185958/7	0.484	0.156619	1.195	1035061.0	0.323593	Y
4	ICISAV 200-185958/8	0.968	0.283004	1.195	967441.0	0.29236	Y
5	IC 200-185958/9	2.42	0.717039	1.195	1049764.0	0.296297	Y
6	IC 200-185958/10	9.68	2.715386	1.195	993714.0	0.280515	Y



Calibration

/ Perfluorotridecanoic acid

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

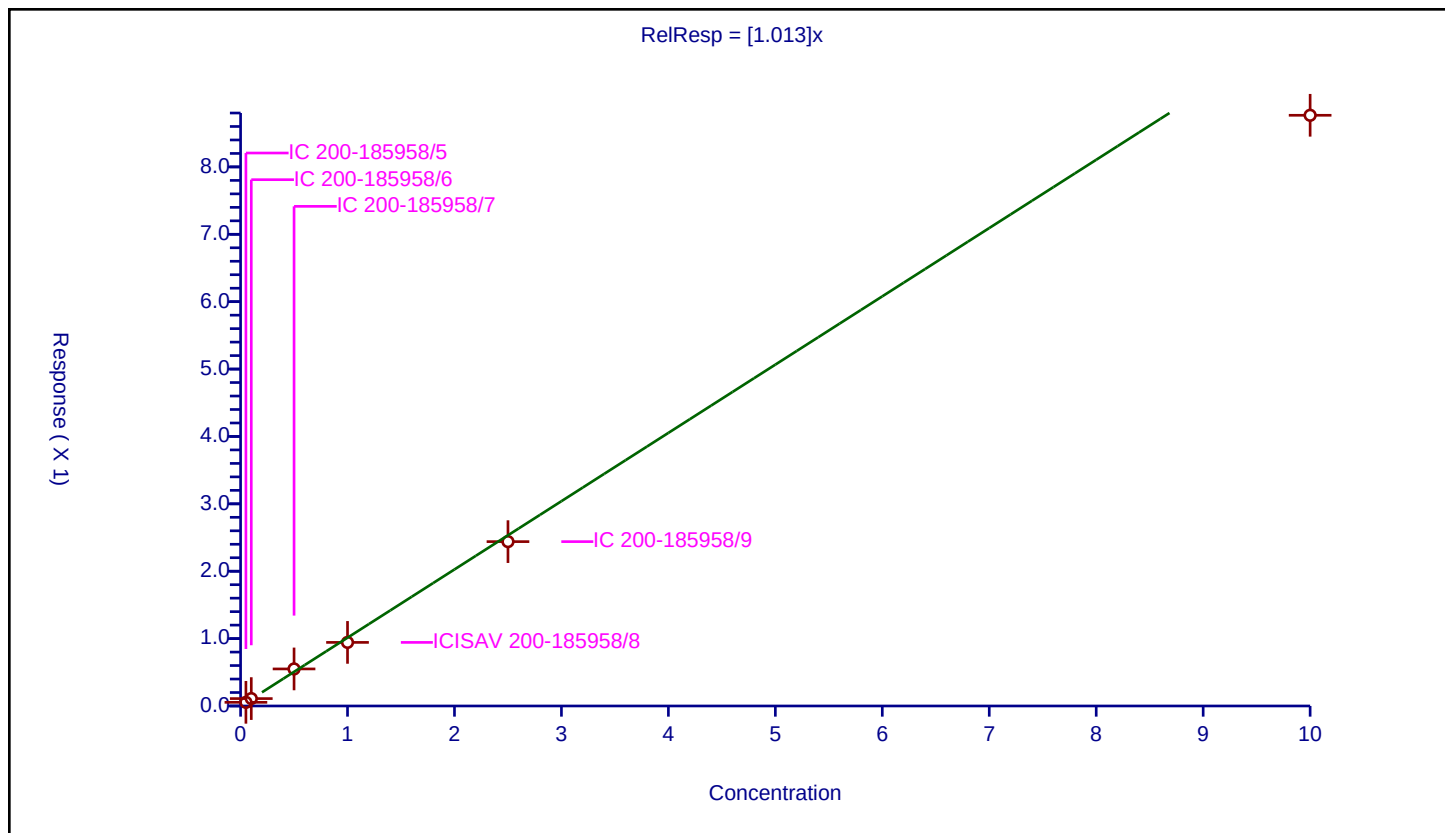
Curve Coefficients

Intercept: 0
 Slope: 1.013

Error Coefficients

Standard Error: 6960000
 Relative Standard Error: 9.3
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.05424	1.25	2180352.0	1.084802	Y
2	IC 200-185958/6	0.1	0.109896	1.25	2150435.0	1.098958	Y
3	IC 200-185958/7	0.5	0.549705	1.25	2245926.0	1.099411	Y
4	ICISAV 200-185958/8	1.0	0.943826	1.25	2161023.0	0.943826	Y
5	IC 200-185958/9	2.5	2.439331	1.25	2344331.0	0.975733	Y
6	IC 200-185958/10	10.0	8.7664	1.25	2103698.0	0.87664	Y



Calibration

/ Perfluorotetradecanoic acid

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

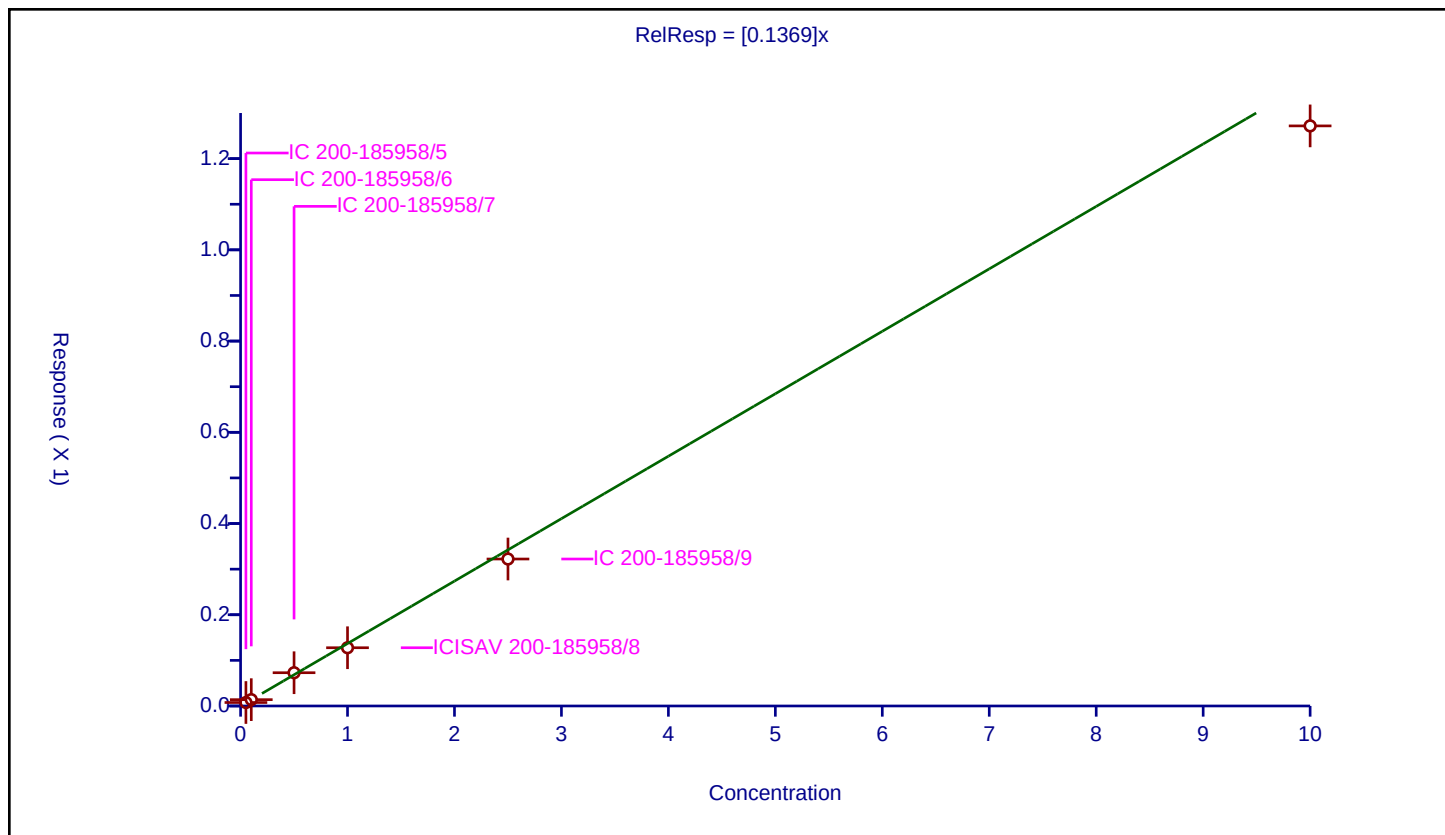
Curve Coefficients

Intercept: 0
 Slope: 0.1369

Error Coefficients

Standard Error: 849000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.007633	1.25	1883348.0	0.152654	Y
2	IC 200-185958/6	0.1	0.01391	1.25	1938056.0	0.139102	Y
3	IC 200-185958/7	0.5	0.072927	1.25	1947280.0	0.145853	Y
4	ICISAV 200-185958/8	1.0	0.127733	1.25	1844360.0	0.127733	Y
5	IC 200-185958/9	2.5	0.322232	1.25	2014799.0	0.128893	Y
6	IC 200-185958/10	10.0	1.271781	1.25	1782548.0	0.127178	Y



Calibration

/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

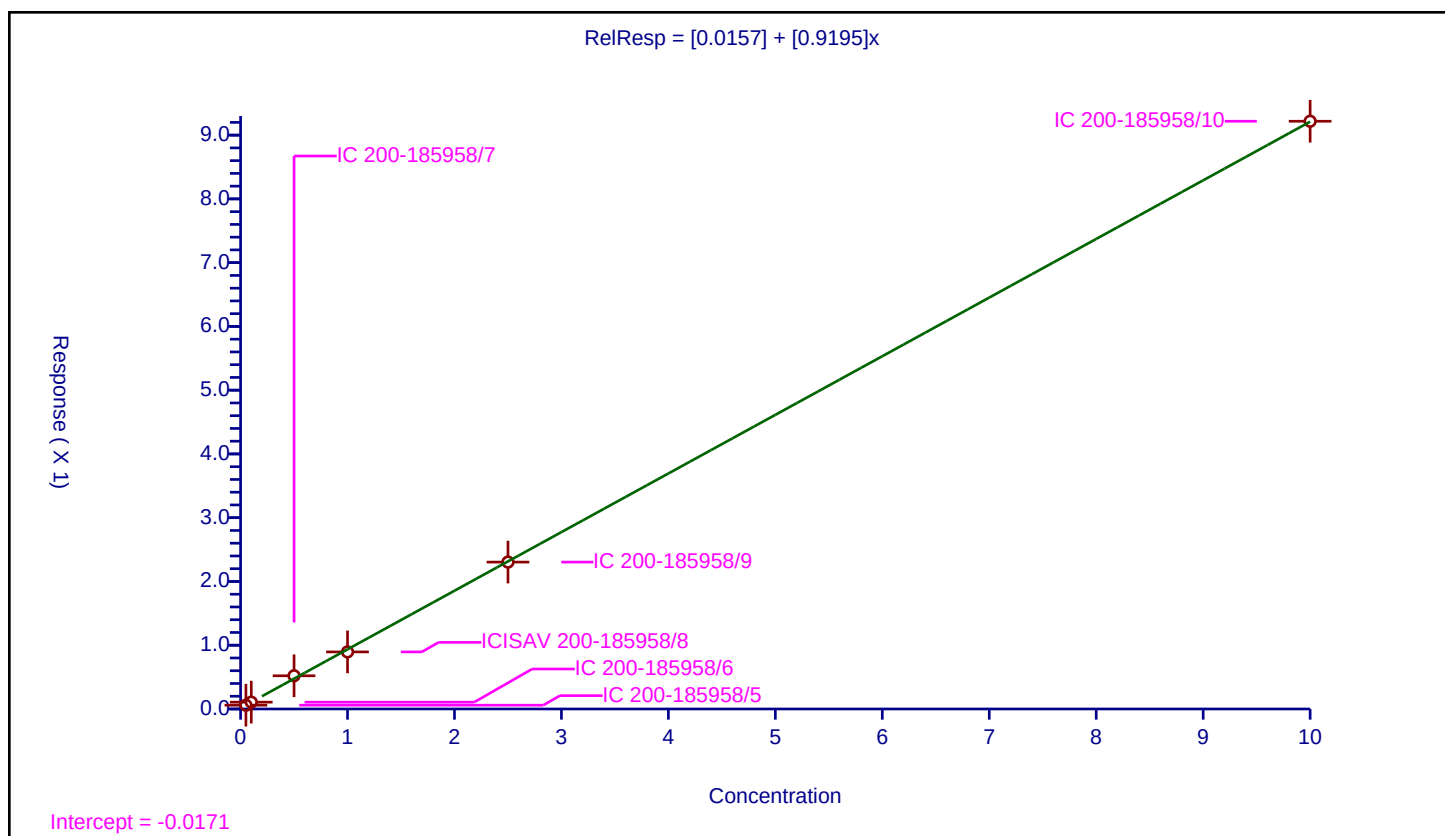
Curve Coefficients

Intercept: 0.0157
 Slope: 0.9195

Error Coefficients

Standard Error: 8460000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.059483	1.25	2380608.0	1.189665	Y
2	IC 200-185958/6	0.1	0.107268	1.25	2401907.0	1.072684	Y
3	IC 200-185958/7	0.5	0.521042	1.25	2348434.0	1.042085	Y
4	ICISAV 200-185958/8	1.0	0.895292	1.25	2280992.0	0.895292	Y
5	IC 200-185958/9	2.5	2.303983	1.25	2500657.0	0.921593	Y
6	IC 200-185958/10	10.0	9.21816	1.25	2191999.0	0.921816	Y



Calibration

/ Perfluorooctadecanoic acid

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

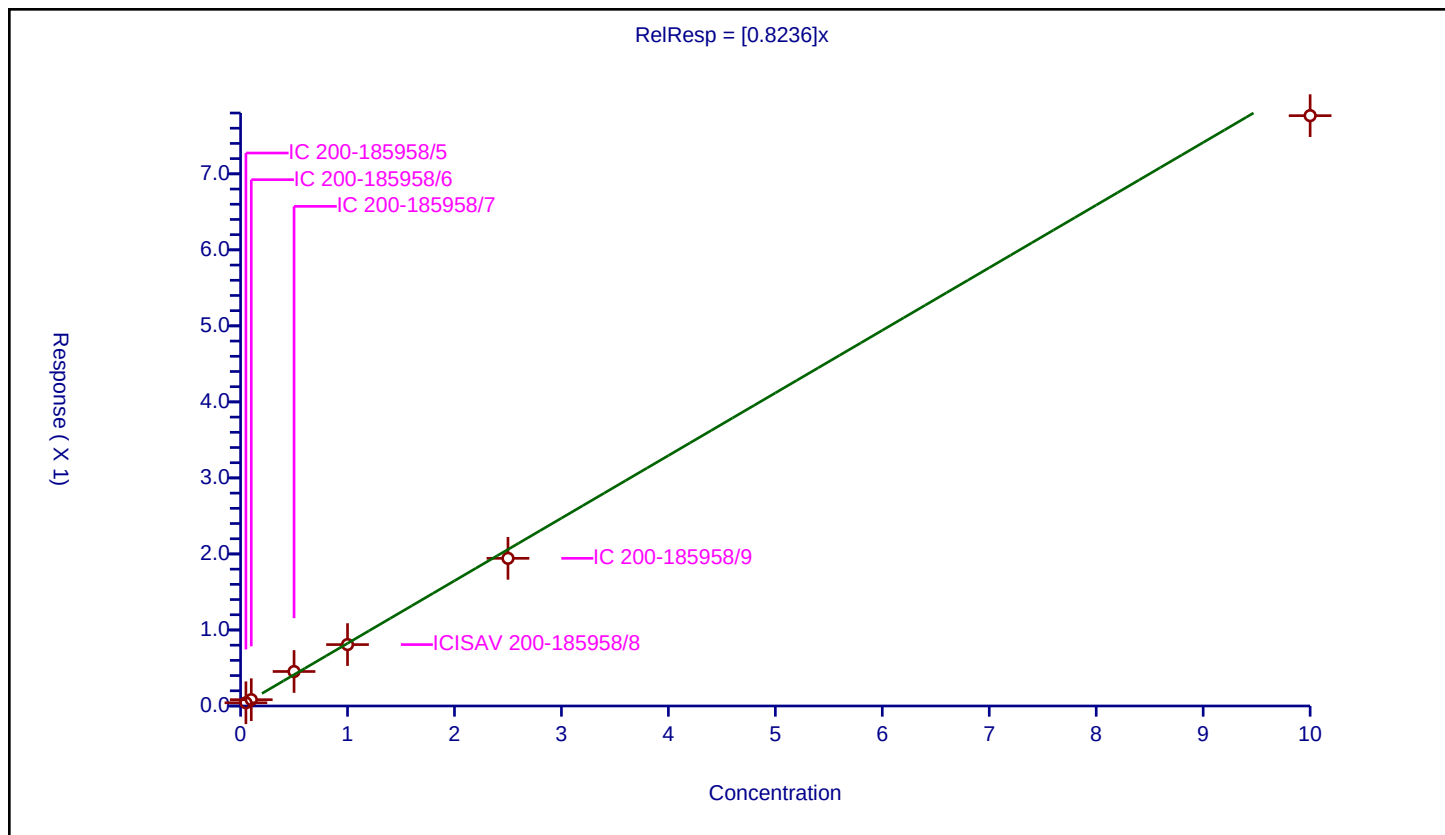
Curve Coefficients

Intercept: 0
 Slope: 0.8236

Error Coefficients

Standard Error: 6380000
 Relative Standard Error: 6.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-185958/5	0.05	0.0422	1.25	2380608.0	0.843997	Y
2	IC 200-185958/6	0.1	0.082935	1.25	2401907.0	0.829346	Y
3	IC 200-185958/7	0.5	0.453549	1.25	2348434.0	0.907098	Y
4	ICISAV 200-185958/8	1.0	0.807566	1.25	2280992.0	0.807566	Y
5	IC 200-185958/9	2.5	1.942487	1.25	2500657.0	0.776995	Y
6	IC 200-185958/10	10.0	7.765225	1.25	2191999.0	0.776522	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.051		1.02	1.00	1.9	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.160		1.08	1.01	6.4	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.119		0.978	1.00	-2.2	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	3.259		1.06	1.00	5.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.094		1.01	1.01	0.4	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.467		1.10	1.00	9.8	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.116		1.07	1.01	5.7	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.181		1.06	1.01	4.6	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.047		0.962	1.00	-3.8	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.802		1.05	1.00	5.4	30.0
6:2 FTS	L1ID		2.267		1.06	1.00	6.1	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.443		1.03	1.00	3.3	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.093		1.02	1.00	2.3	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.026		0.852	1.01	-15.7	30.0
Perfluorononanoic acid (PFNA)	AveID	1.037	1.136		1.10	1.00	9.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.843		1.02	1.00	1.9	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.9153		1.01	1.01	-0.3	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.085		1.00	1.00	0.0	30.0
8:2 FTS	AveID	1.617	1.762		1.10	1.01	9.0	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	1.021		0.977	1.00	-2.3	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.9586		1.10	1.00	10.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.7477		1.04	1.01	3.2	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9695		0.962	1.00	-3.8	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9331		1.04	1.00	4.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.451		1.04	1.00	3.5	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.035		0.977	1.00	-2.3	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.8818		0.875	0.964	-9.3	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2712		0.856	0.968	-11.6	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: ICV 200-185958/12 Calibration Date: 11/18/2022 15:27
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221118ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9240		0.912	1.00	-8.8	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1516		1.11	1.00	10.7	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8295		0.885	1.00	-11.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7059		0.857	1.00	-14.3	30.0
13C4 PFBA	Ave	1.122	0.9202		1.03	1.25	-18.0	50.0
13C5 PFPeA	Ave	0.8543	0.7101		1.04	1.25	-16.9	50.0
13C3 PFBS	Ave	0.9281	0.7971		0.998	1.16	-14.1	50.0
M2-4:2 FTS	Ave	0.0820	0.0686		0.977	1.17	-16.3	50.0
13C2 PFHxA	Ave	0.8951	0.7748		1.08	1.25	-13.4	50.0
13C3 HFPO-DA	Ave	0.1580	0.1330		1.05	1.25	-15.8	50.0
18O2 PFHxS	Ave	0.6761	0.5654		0.989	1.18	-16.4	50.0
13C4 PFHpA	Ave	0.9206	0.7694		1.05	1.25	-16.4	50.0
M2-6:2 FTS	Ave	0.1134	0.0945		0.989	1.19	-16.7	50.0
13C4 PFOA	Ave	1.035	0.8655		1.05	1.25	-16.4	50.0
13C4 PFOS	Ave	0.4588	0.3894		1.01	1.20	-15.1	50.0
13C5 PFNA	Ave	1.006	0.8541		1.06	1.25	-15.1	50.0
13C2 PFDA	Ave	1.025	0.9007		1.10	1.25	-12.1	50.0
M2-8:2 FTS	Ave	0.1387	0.1166		1.01	1.20	-16.0	50.0
13C8 FOSA	Ave	0.8403	0.7085		1.05	1.25	-15.7	50.0
d3-NMeFOSAA	Ave	0.2087	0.1754		1.05	1.25	-15.9	50.0
13C2 PFUnA	Ave	0.9385	0.7727		1.03	1.25	-17.7	50.0
d5-NEtFOSAA	Ave	0.2055	0.1778		1.08	1.25	-13.5	50.0
13C2 PFDoA	Ave	0.9562	0.8116		1.06	1.25	-15.1	50.0
13C2 PFTeDA	Ave	0.8270	0.7097		1.07	1.25	-14.2	50.0
13C2 PFHxDA	Ave	1.022	0.9092		1.11	1.25	-11.1	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Nov-2022 15:27:08 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0053396-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:34:01 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP Date: 18-Nov-2022 15:40:06

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										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2670376	1.03		82.0	5679	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	2244563	1.02			201	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.692	2060643	1.04		83.1	4220	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.387	2.387	0.0	1.000	1931131	1.07			51.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2151403	1.00		85.9	366569	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	2070709	0.9780	Target=2.09		2506	M
298.90 > 99.00	2.400	2.400	0.0	1.000	975791		2.12(1.04-3.13)		774	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	519266	1.06			2152	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.701	2.689	0.012	0.783	186032	0.9770		83.7	221	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2248529	1.08		86.6	4586	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1986916	1.01	Target=14.25		367	M
313.00 > 119.00	2.725	2.725	0.0	1.000	140975		14.09(7.12-21.37)		245	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.887	1925334	1.10	Target=3.04		2369	M
349.00 > 99.00	2.737	2.737	0.0	0.887	614001		3.14(1.52-4.56)		1153	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.835	2.835	0.0	1.000	348107	1.07			2459	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	385915	1.05		84.2	3630	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1552107	0.9887		83.6	4490	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.088	3.088	0.0	1.000	1565688	1.06	Target=3.66		1350	M
399.00 > 99.00	3.088	3.088	0.0	1.000	416511		3.76(1.83-5.49)		495	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.099	0.0	0.899	2232924	1.04		83.6	5810	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.099	0.0	1.000	1870498	0.9617	Target=3.97		389	
363.00 > 169.00	3.099	3.099	0.0	1.000	511272		3.66(1.98-5.95)		1195	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	5246009	1.05	Target=3.16		4174	
377.00 > 85.00	3.132	3.132	0.0	0.832	1647134		3.18(1.58-4.73)		2385	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	260442	0.9894		83.3	864	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.439	3.439	0.0	1.000	497227	1.06			1080	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.439	3.439	0.0	0.914	1304864	1.03	Target=5.14		2018	M
449.00 > 99.00	3.439	3.439	0.0	0.914	252176		5.17(2.57-7.72)		1072	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.448	0.0	1.000	2511617	1.05		83.6	5014	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.448	0.0		2902090	1.25			4497	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.448	3.448	0.0	1.000	2197145	1.02	Target=2.79		168	M
413.00 > 169.00	3.448	3.448	0.0	1.000	773803		2.84(1.40-4.19)		836	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1080464	1.01		84.9	3142	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.764	3.764	0.0	1.000	936613	0.8518	Target=5.11		242	M
499.00 > 99.00	3.764	3.764	0.0	1.000	204498		4.58(2.55-7.66)		186	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	2253063	1.10	Target=8.55		488	
463.00 > 169.00	3.783	3.783	0.0	1.000	255525		8.82(4.28-12.83)		1449	
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2478667	1.06		84.9	10218	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	2570823	1.02			4667	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.050	0.011	1.079	835829	1.01	Target=2.53		3263	
549.00 > 99.00	4.061	4.050	0.011	1.079	326669		2.56(1.27-3.80)		1661	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2613997	1.10		87.9	7780	

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	4.081	4.081	0.0	1.000	2269026	1.00	Target=10.26		791	M
513.00 > 169.00	4.081	4.081	0.0	1.000	227346		9.98(5.13-15.38)		386	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	324039	1.01		84.0	1254	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	481604	1.10			1586	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1679557	0.9774			2056	
D 21 13C8 FOSA										M
506.00 > 78.00	4.150	4.150	0.0	1.204	2056044	1.05		84.3	1897	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	509127	1.05		84.1	760	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	390455	1.10			500	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	682801	1.04	Target=2.51		3633	
599.00 > 99.00	4.331	4.331	0.0	1.151	261561		2.61(1.25-3.76)		1945	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2242424	1.03		82.3	3383	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	1739241	0.9620	Target=9.88		468	M
563.00 > 169.00	4.353	4.353	0.0	1.000	177599		9.79(4.94-14.82)		266	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	385250	1.04			836	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.365	0.0	1.266	516078	1.08		86.5	1182	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	4024467	1.03			8552	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	1949526	0.9766	Target=7.77		130	M
613.00 > 169.00	4.602	4.591	0.011	1.002	268146		7.27(3.89-11.66)		673	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2355331	1.06		84.9	2733	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	230011	0.8748			916	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	237361	0.8561	Target=0.50		2013	M
699.00 > 99.00	4.776	4.776	0.0	1.269	476521		0.50(0.25-0.76)		3025	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.804	0.009	1.048	1741096	0.9120	Target=5.21		114	M
663.00 > 169.00	4.813	4.804	0.009	1.048	325181		5.35(2.60-7.81)		282	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.012	0.0	1.000	249797	1.11	Target=0.89		753	
713.00 > 219.00	5.002	5.012	-0.010	0.998	272856		0.92(0.44-1.33)		351	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.012	5.012	0.0	1.454	2059701	1.07		85.8	2818	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.367	0.011	1.002	1751027	0.8850	Target=5.65		151	M
813.00 > 169.00	5.378	5.367	0.011	1.002	292027		6.00(2.82-8.47)		1291	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.367	0.0	1.557	2638658	1.11		88.9	6236	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.722	0.0	1.066	1490002	0.8570	Target=6.24		142	M
913.00 > 169.00	5.722	5.722	0.0	1.066	233541		6.38(3.12-9.36)		710	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00012

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d

Injection Date: 18-Nov-2022 15:27:08

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

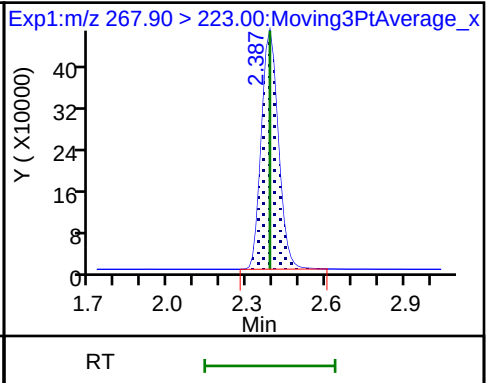
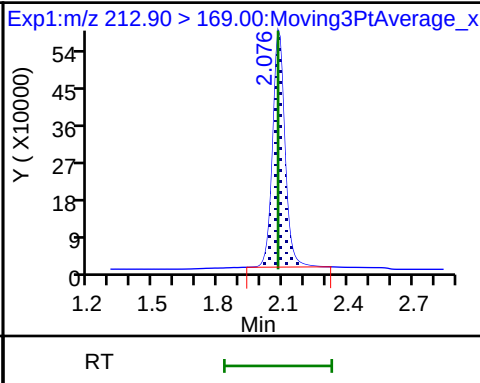
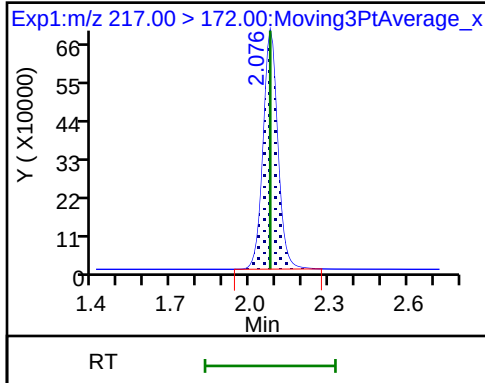
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

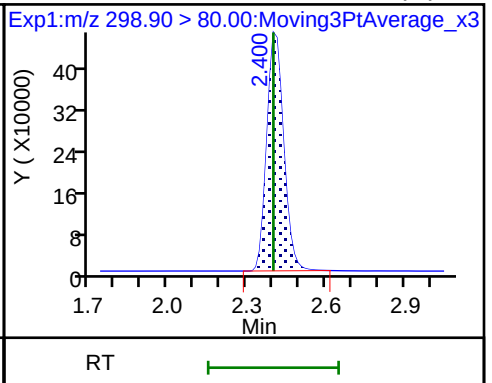
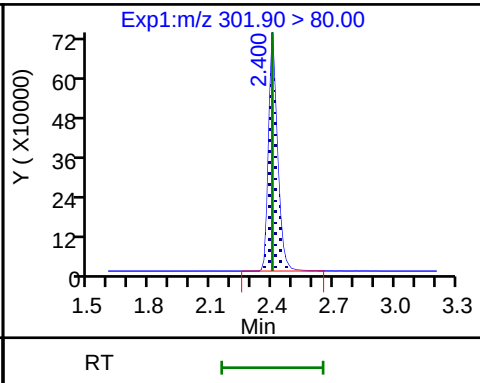
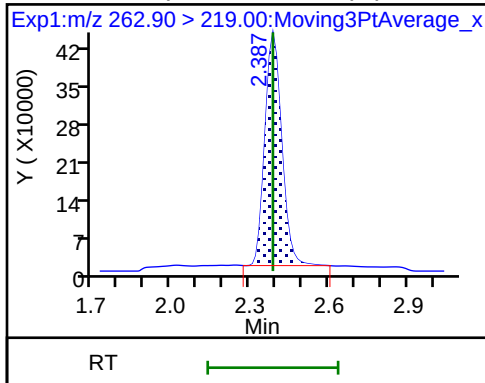
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

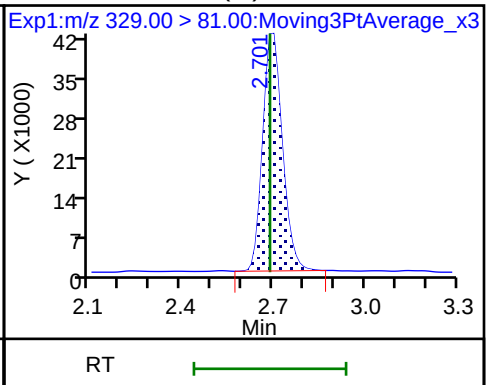
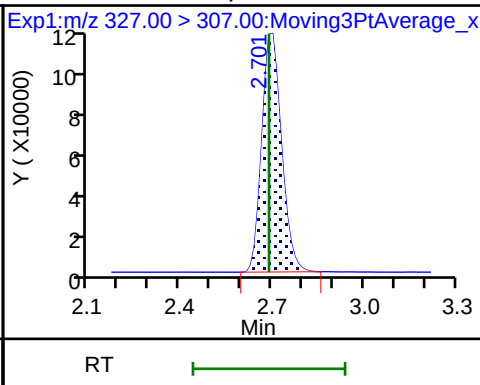
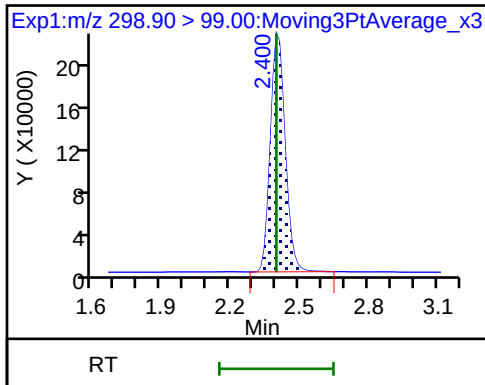
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

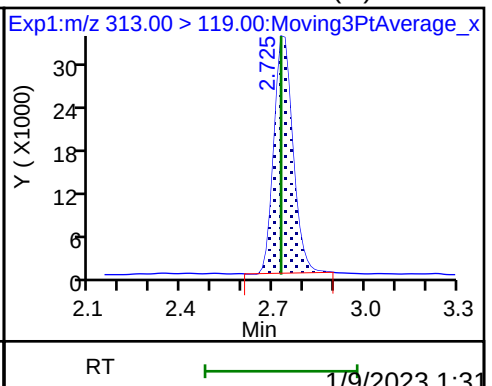
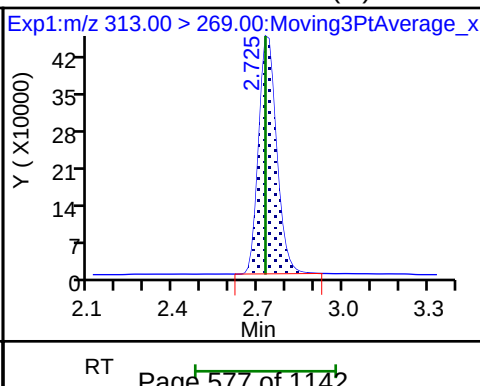
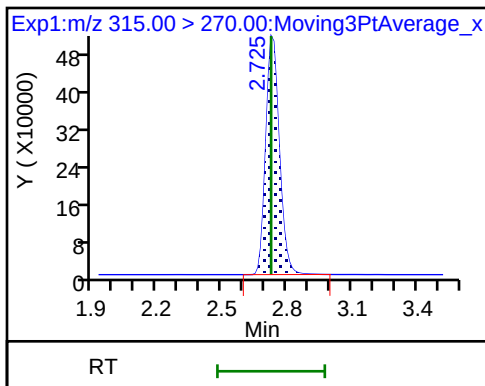
D 60 M2-4:2 FTS (M)

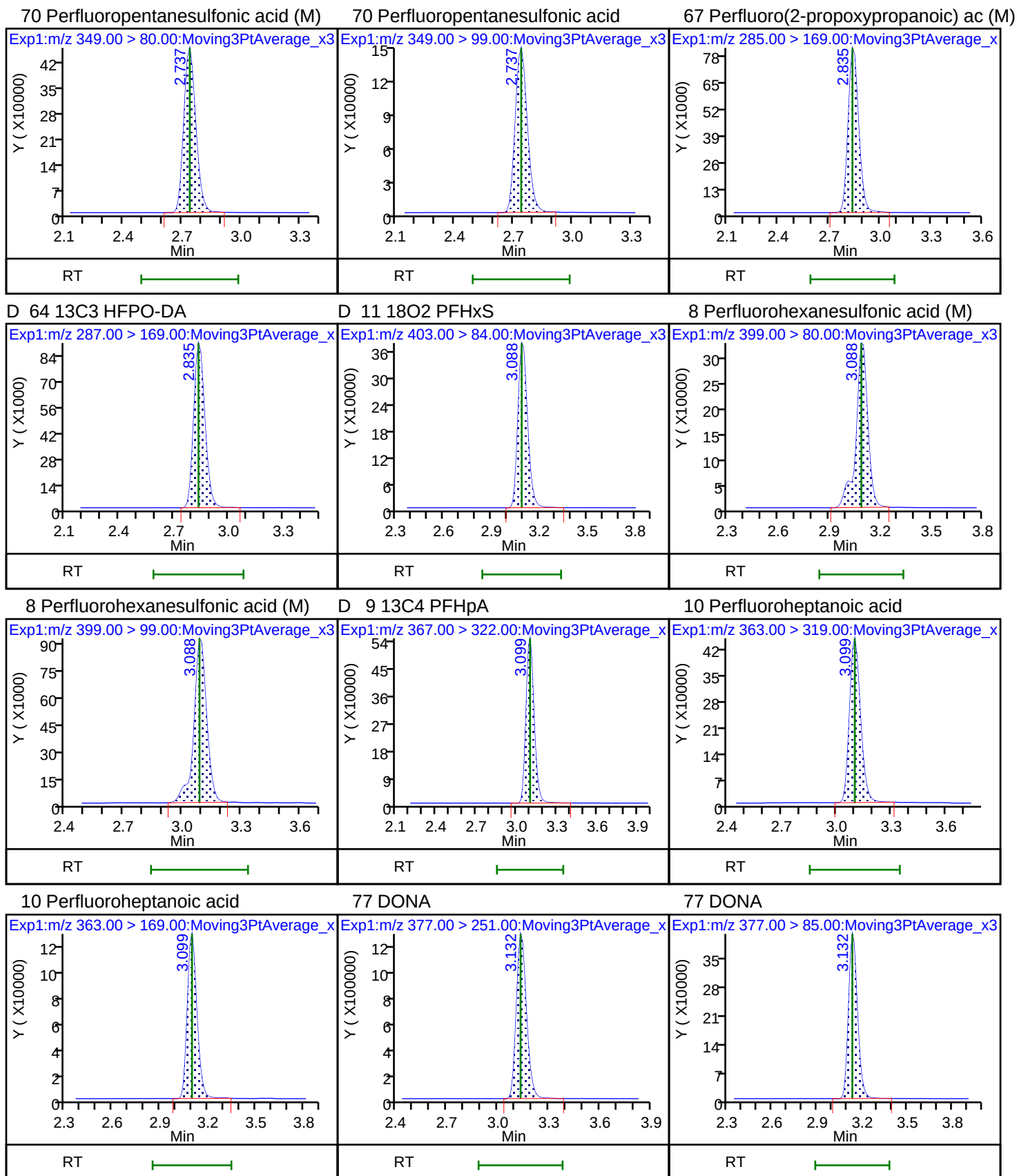


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

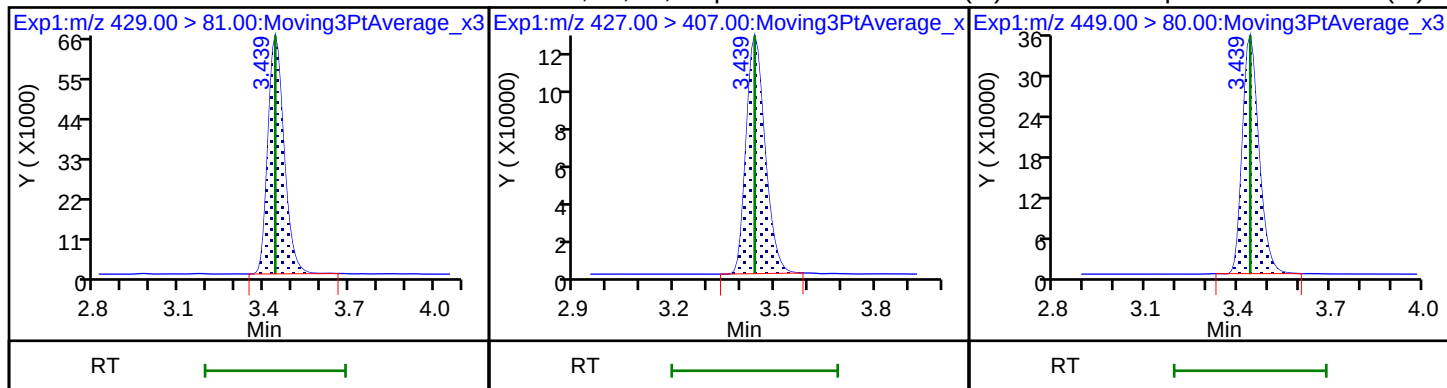
6 Perfluorohexanoic acid (M)





D 12 M2-6:2 FTS

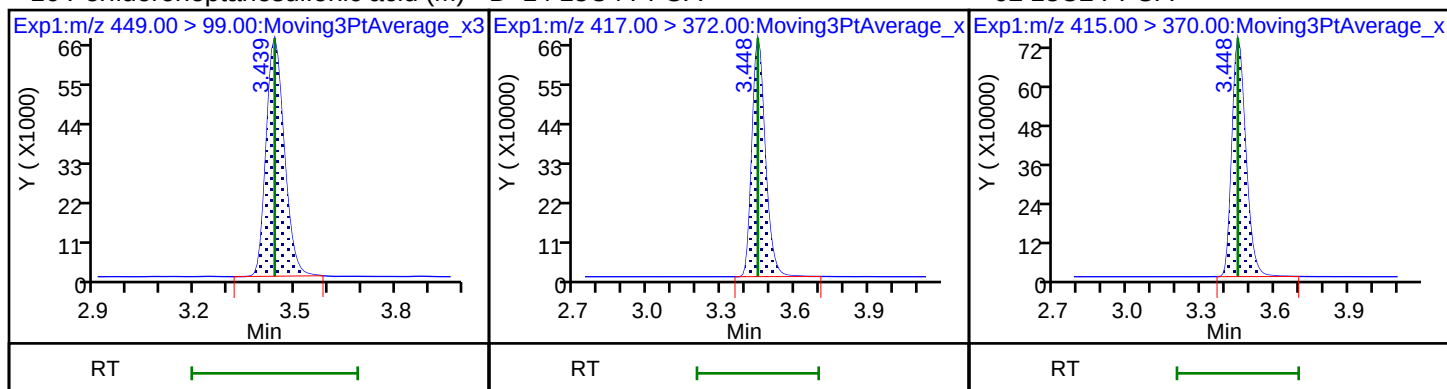
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

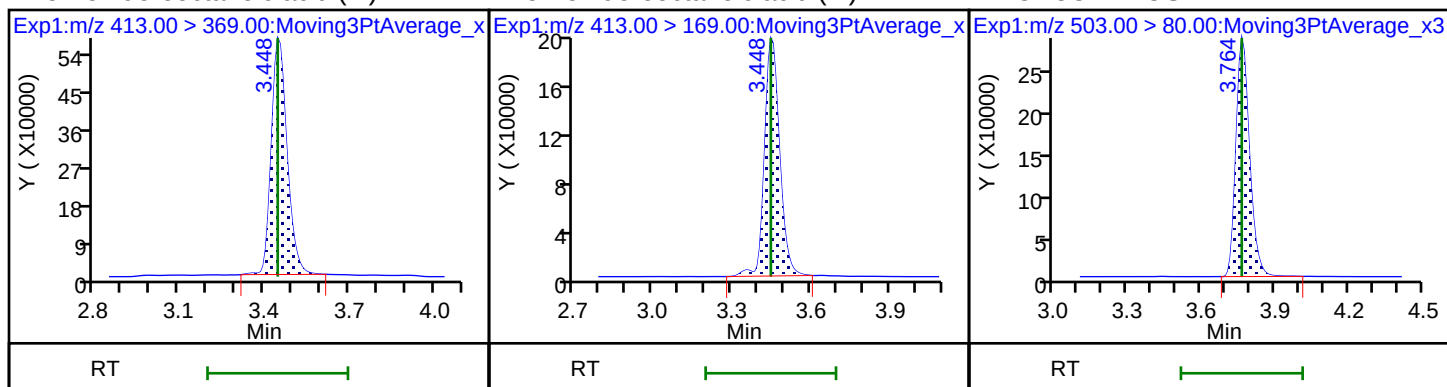
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

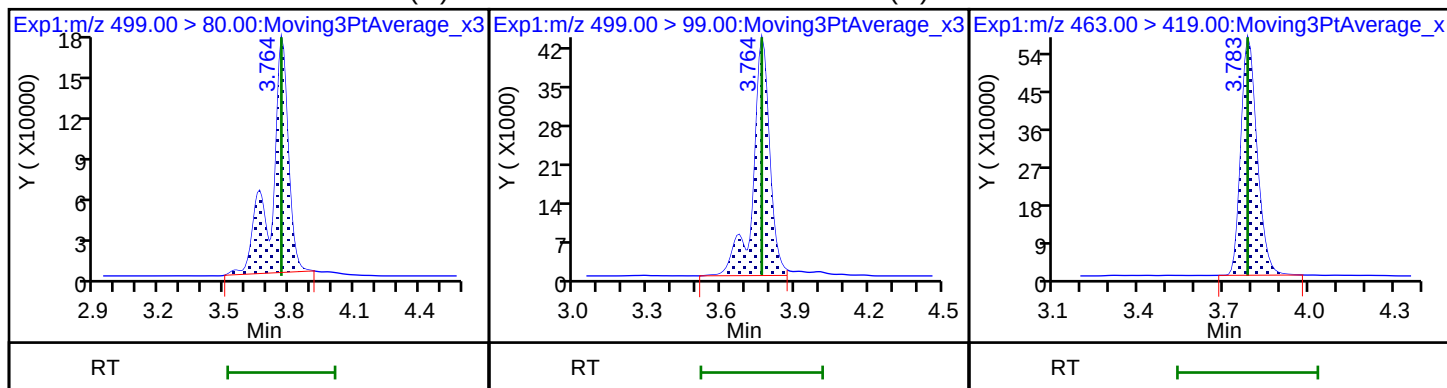
D 18 13C4 PFOS

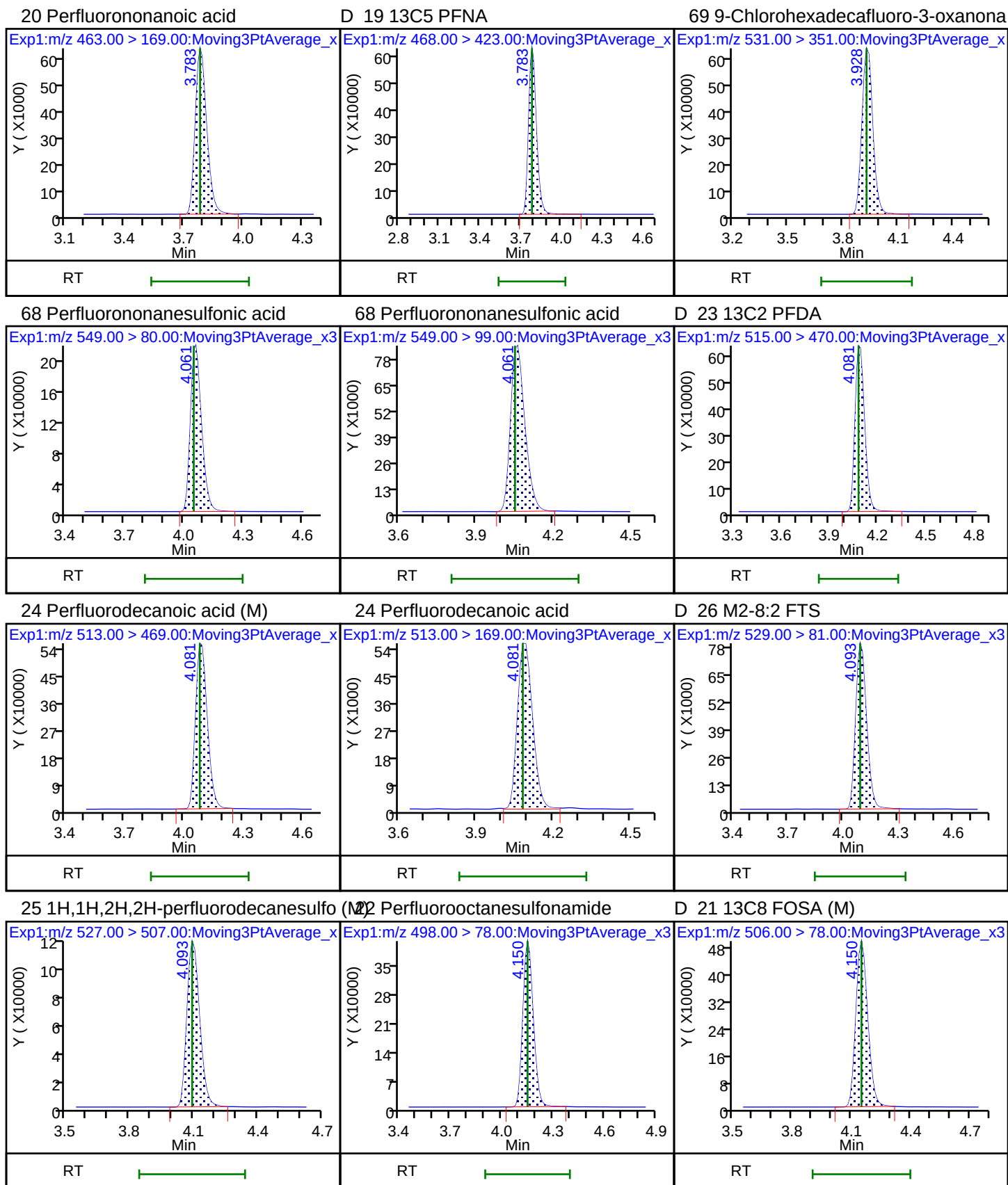


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

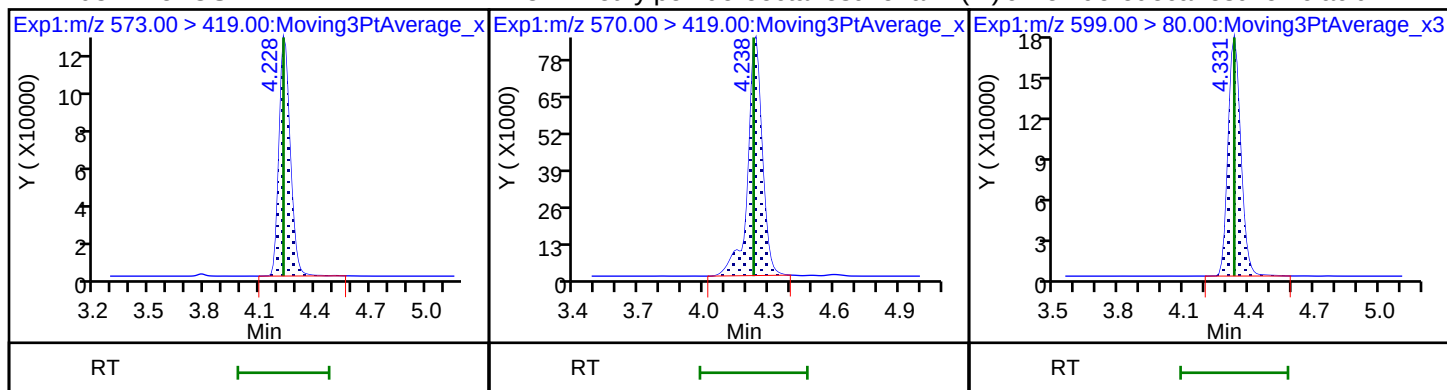
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

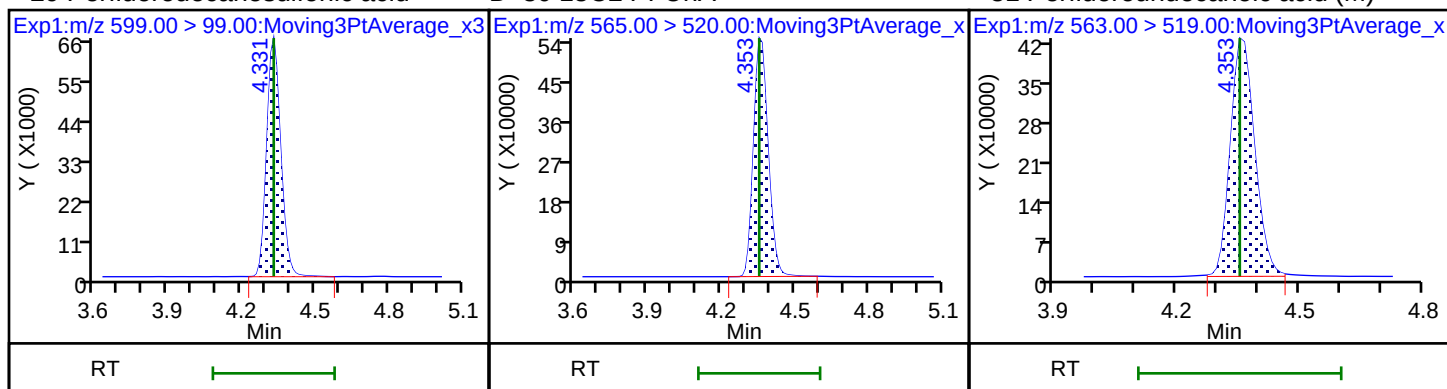
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

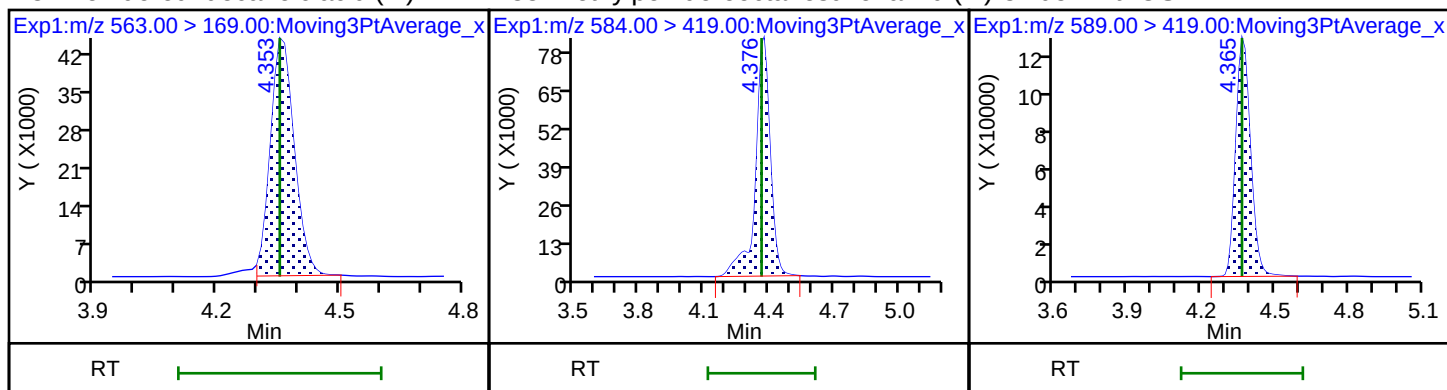
D 30 13C2 PFUa

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

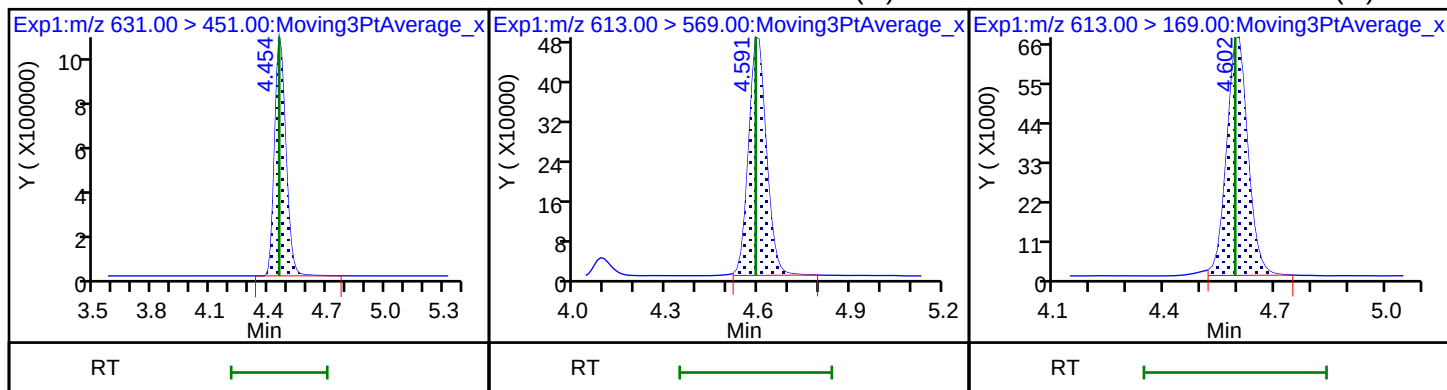
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

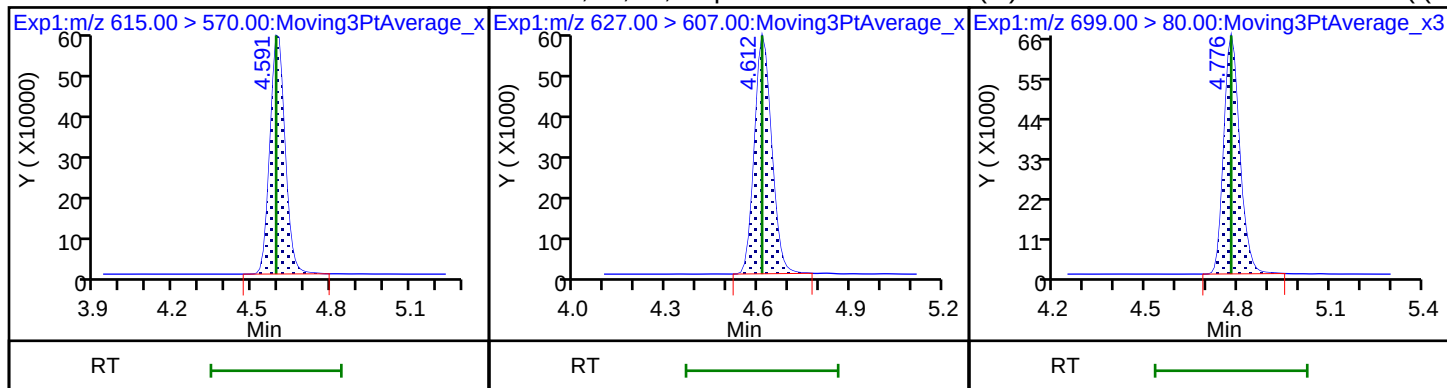
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

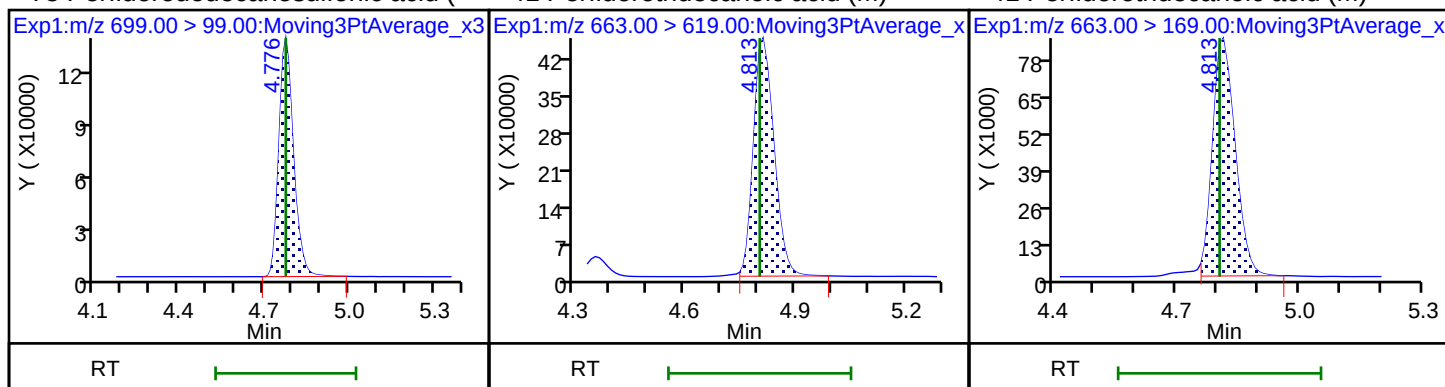
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

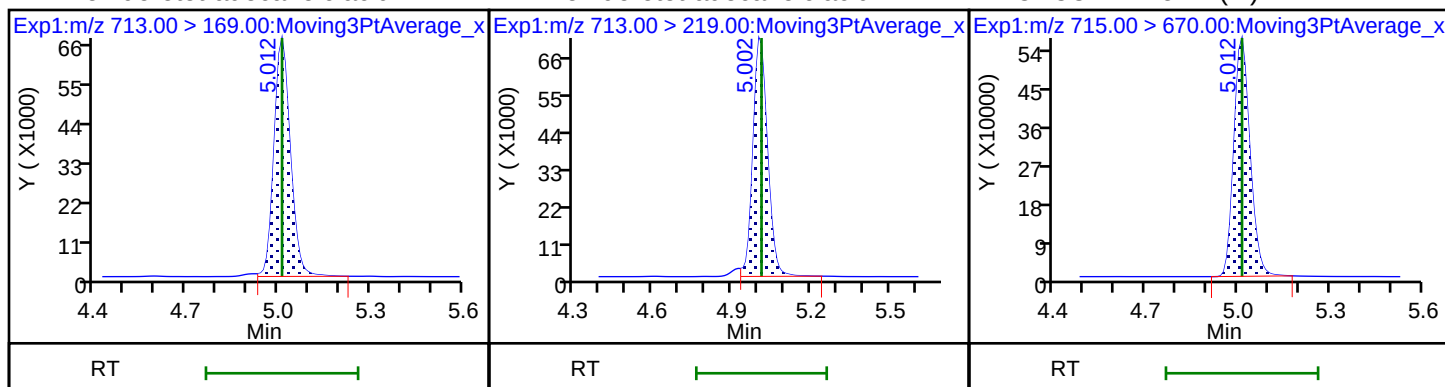
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

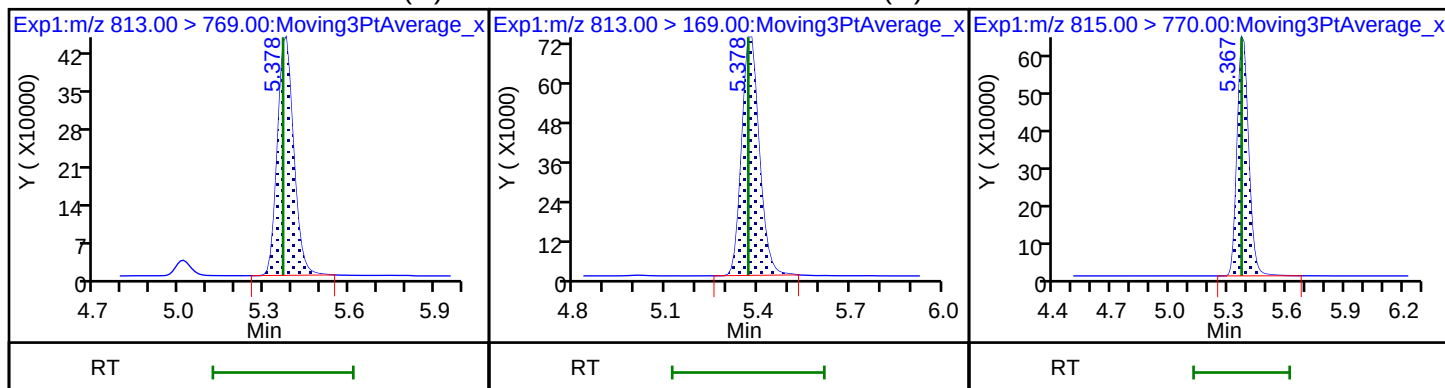
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid (M)

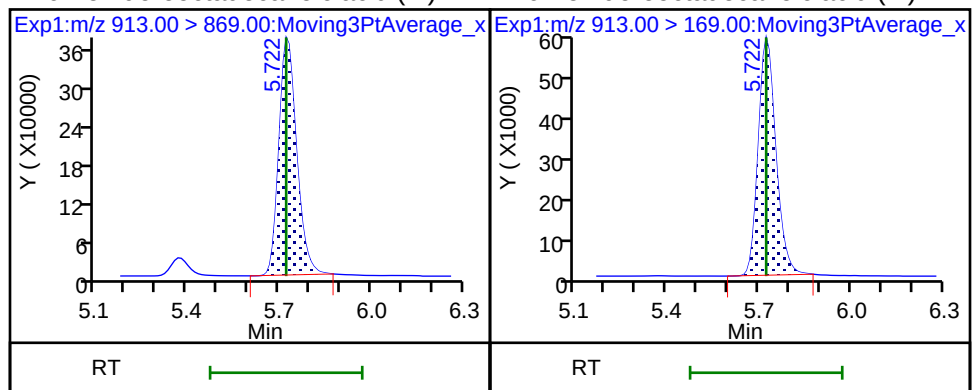
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

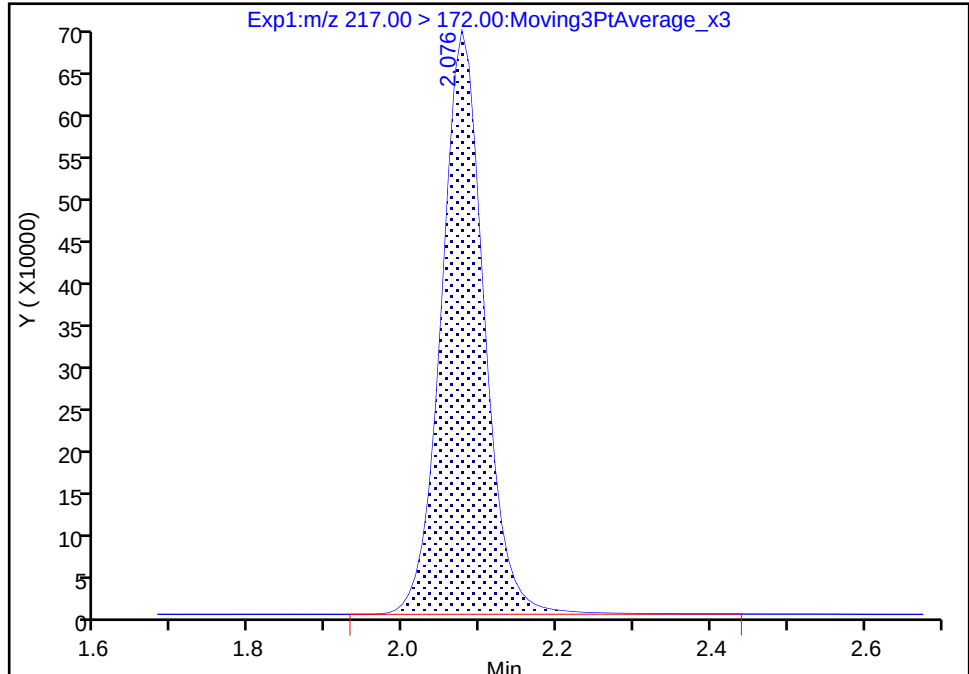
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

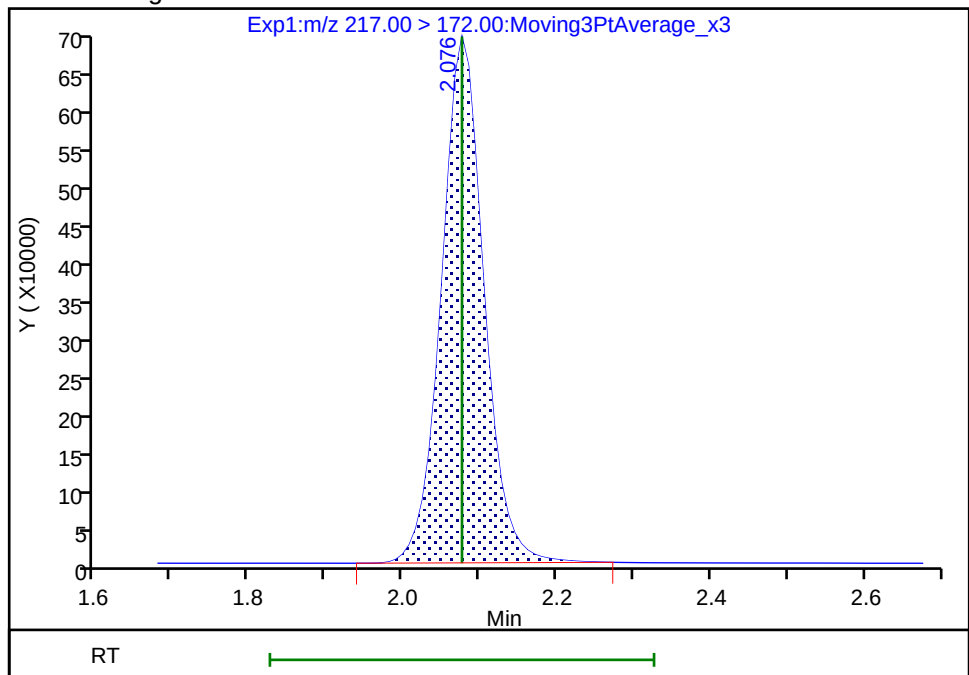
RT: 2.08
Area: 2683228
Amount: 1.030340
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2670376
Amount: 1.025405
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

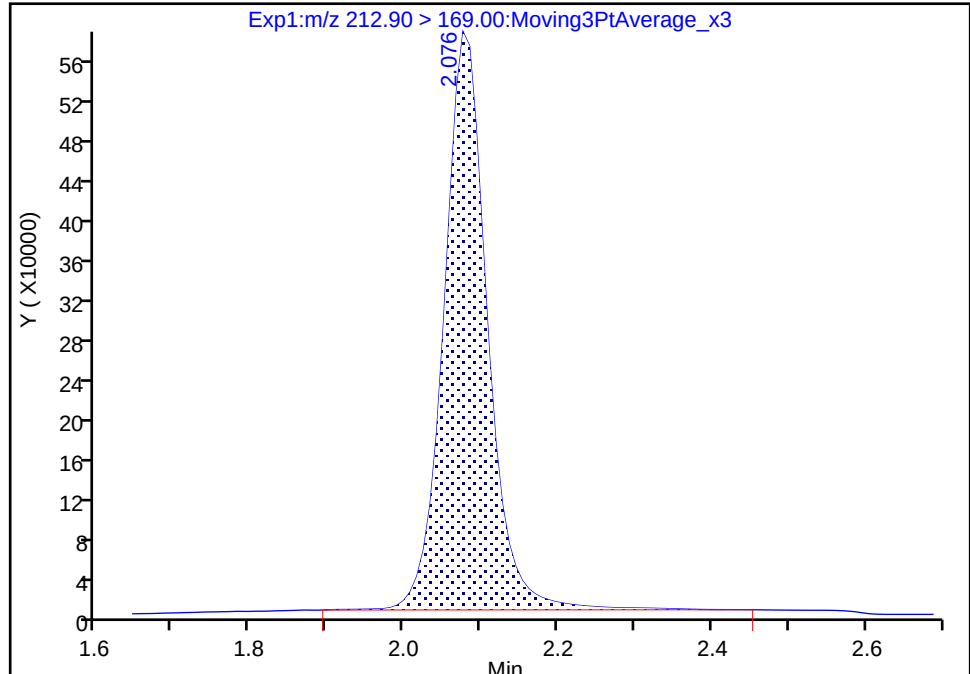
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

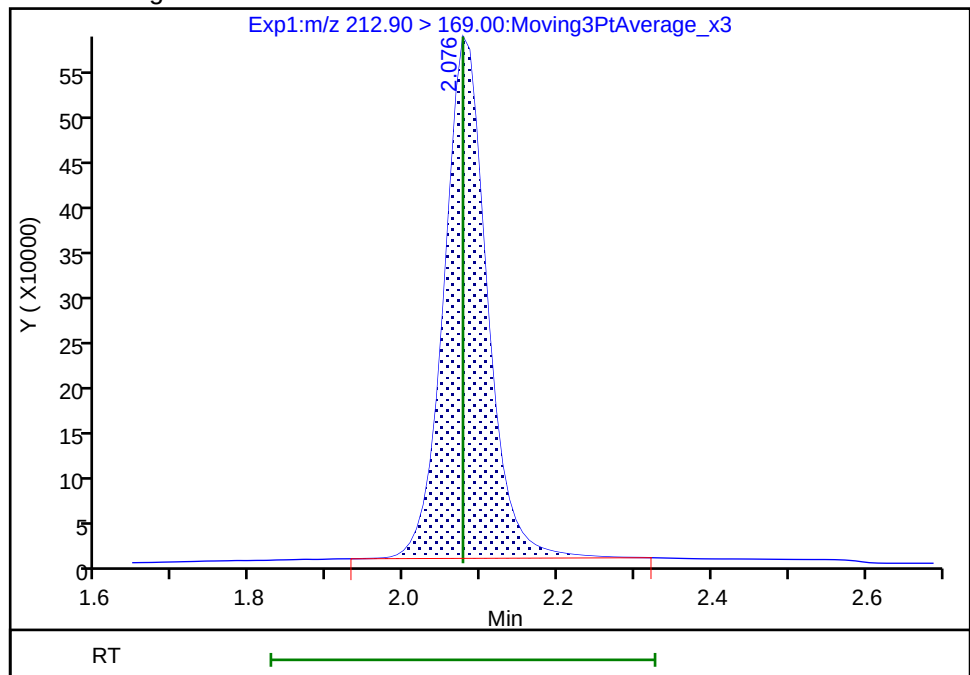
RT: 2.08
Area: 2274782
Amount: 1.032610
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2244563
Amount: 1.018892
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

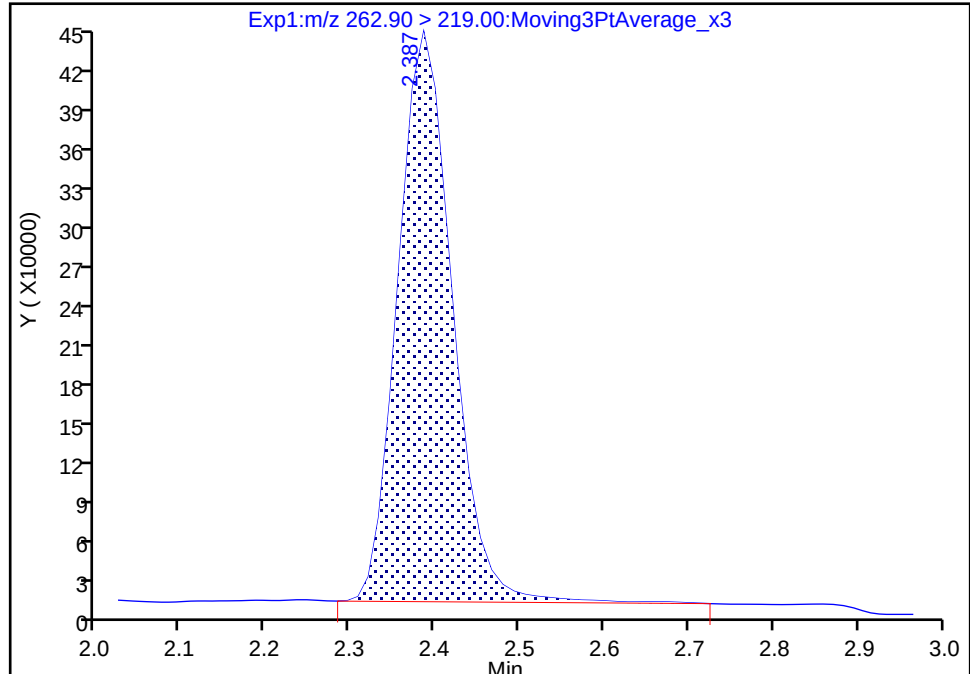
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

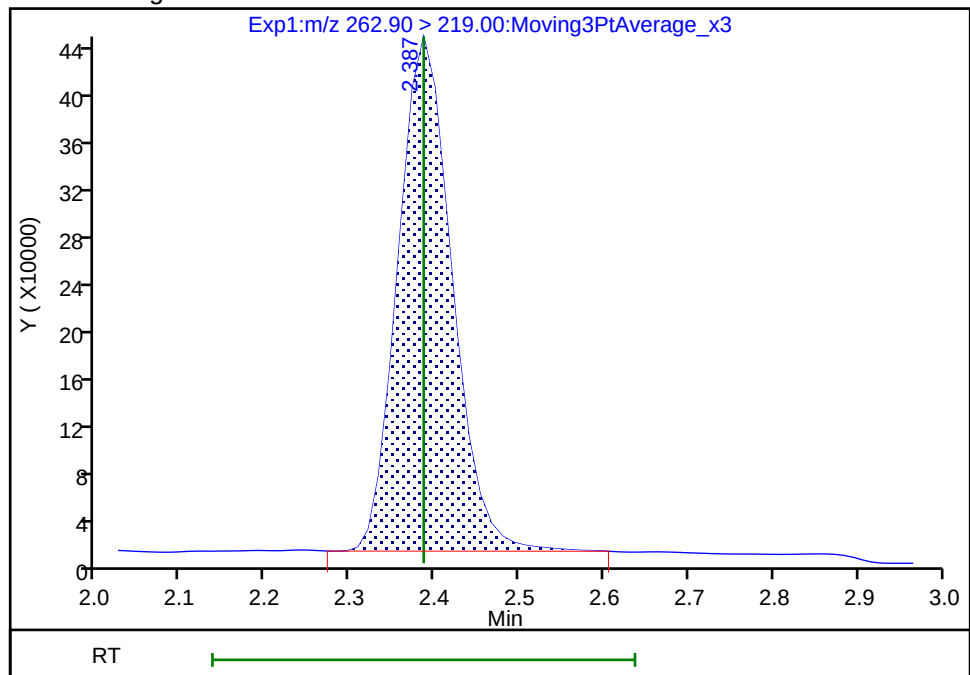
RT: 2.39
Area: 1952031
Amount: 1.086518
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1931131
Amount: 1.074885
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:27:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

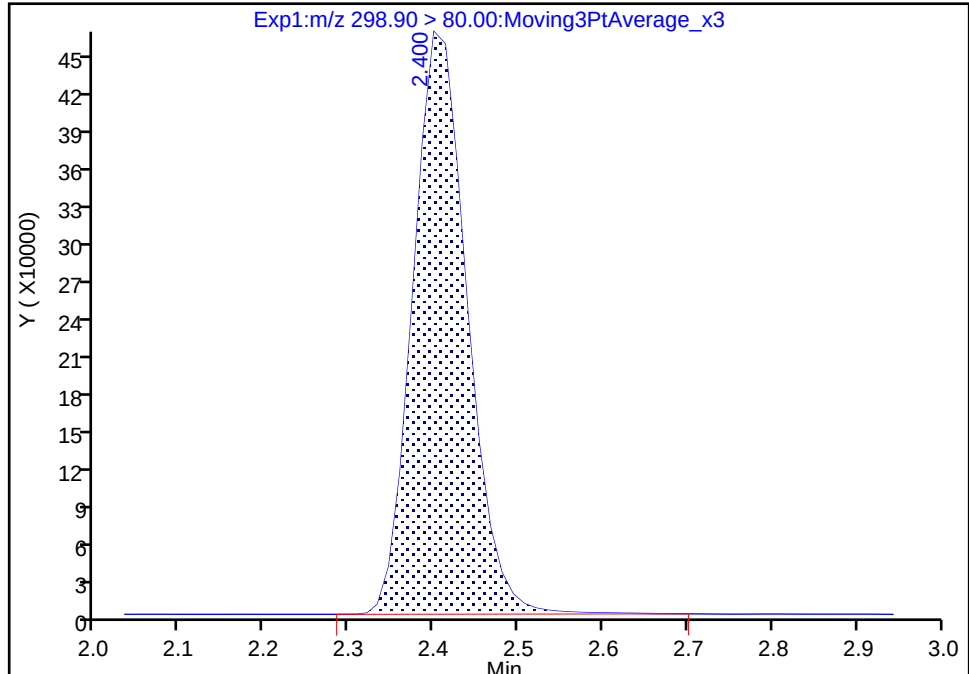
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

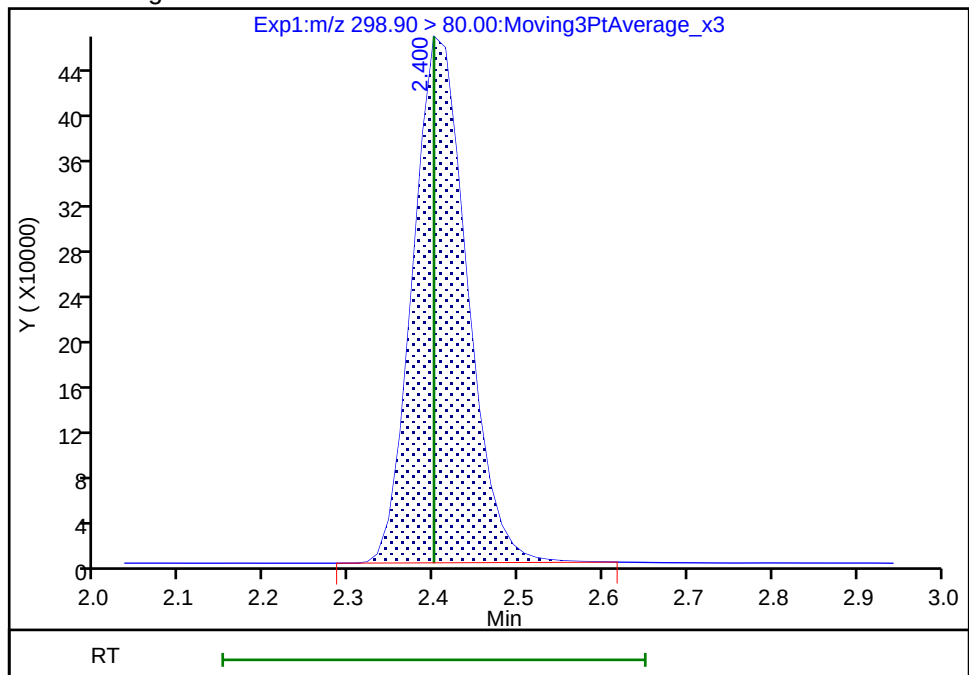
RT: 2.40
Area: 2078717
Amount: 0.981767
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2070709
Amount: 0.977985
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

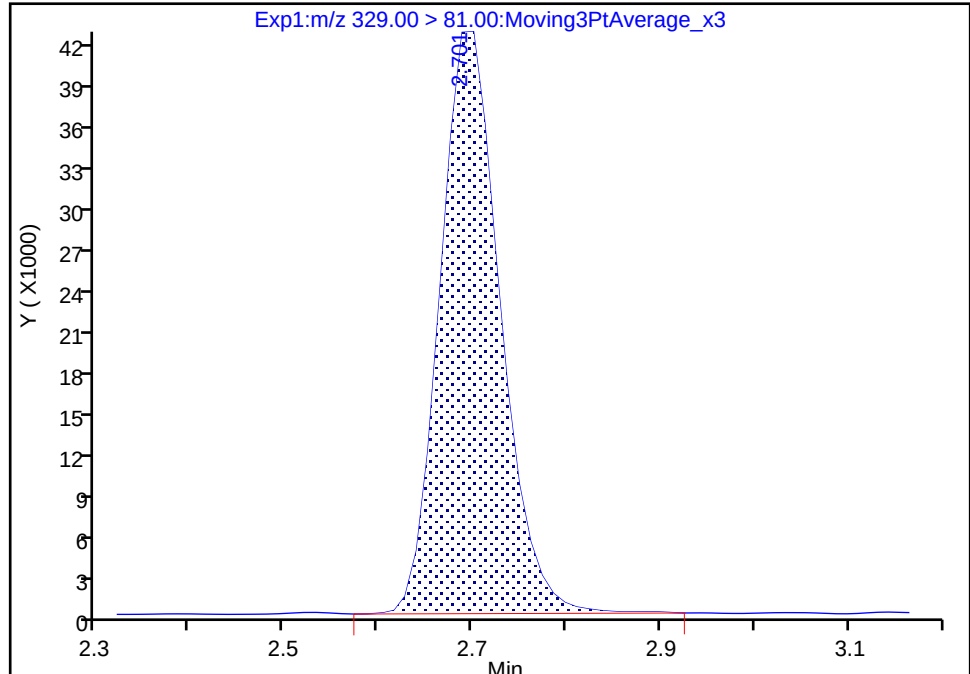
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

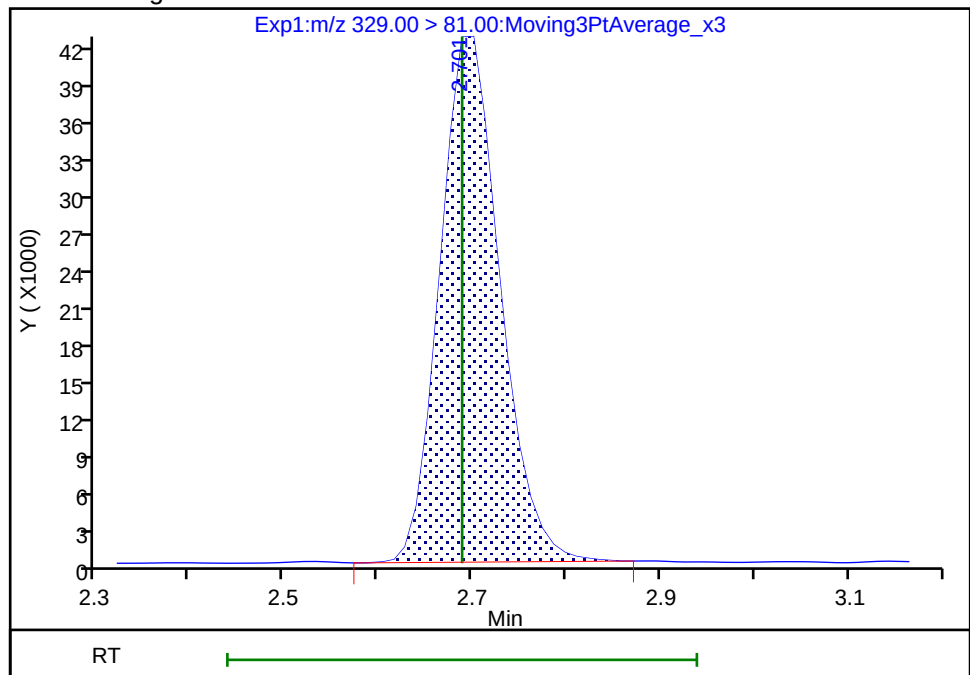
RT: 2.70
Area: 187018
Amount: 0.982209
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 186032
Amount: 0.977030
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

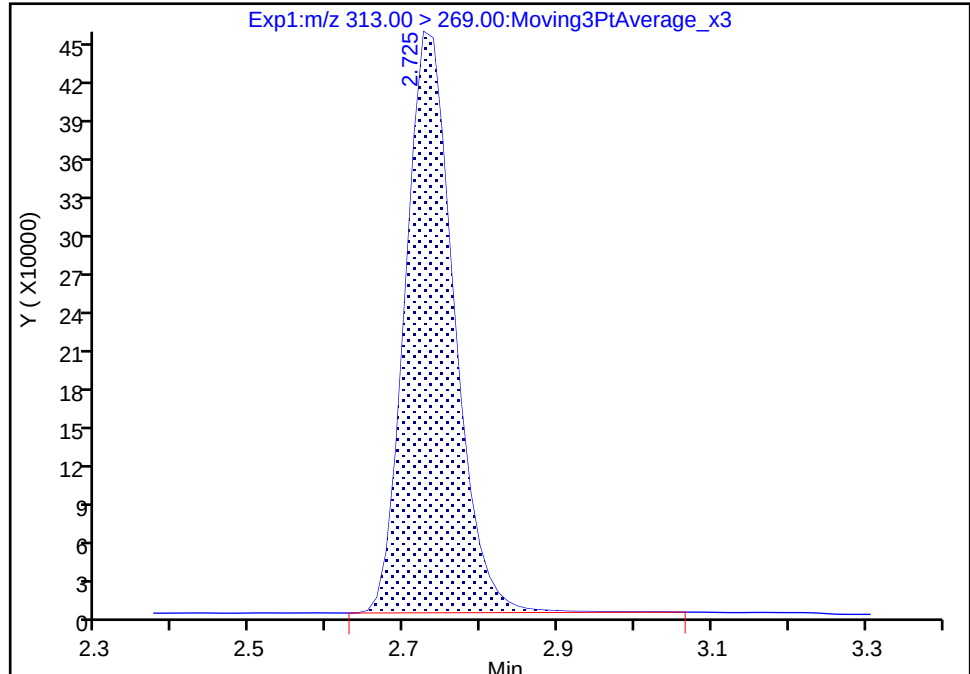
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

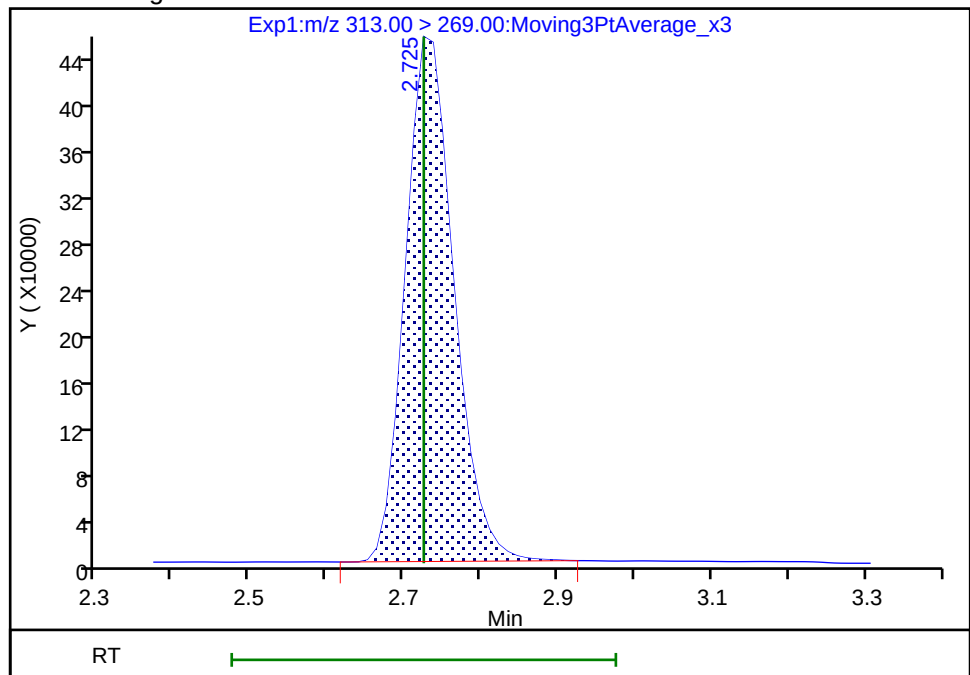
RT: 2.73
Area: 1996563
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1986916
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

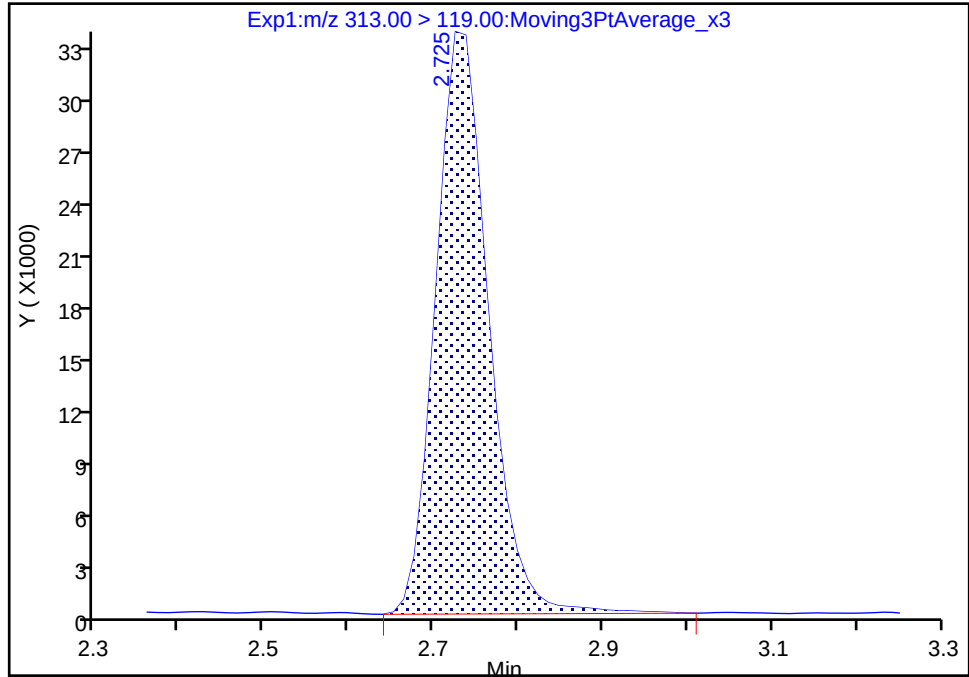
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

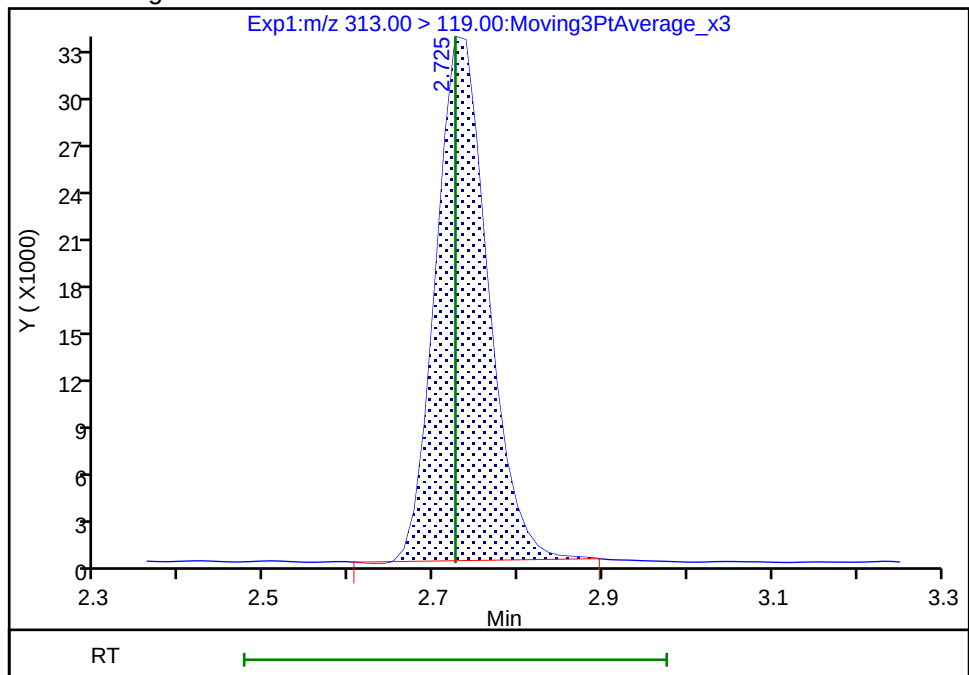
RT: 2.73
Area: 144299
Amount: 1.018646
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 140975
Amount: 1.013724
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

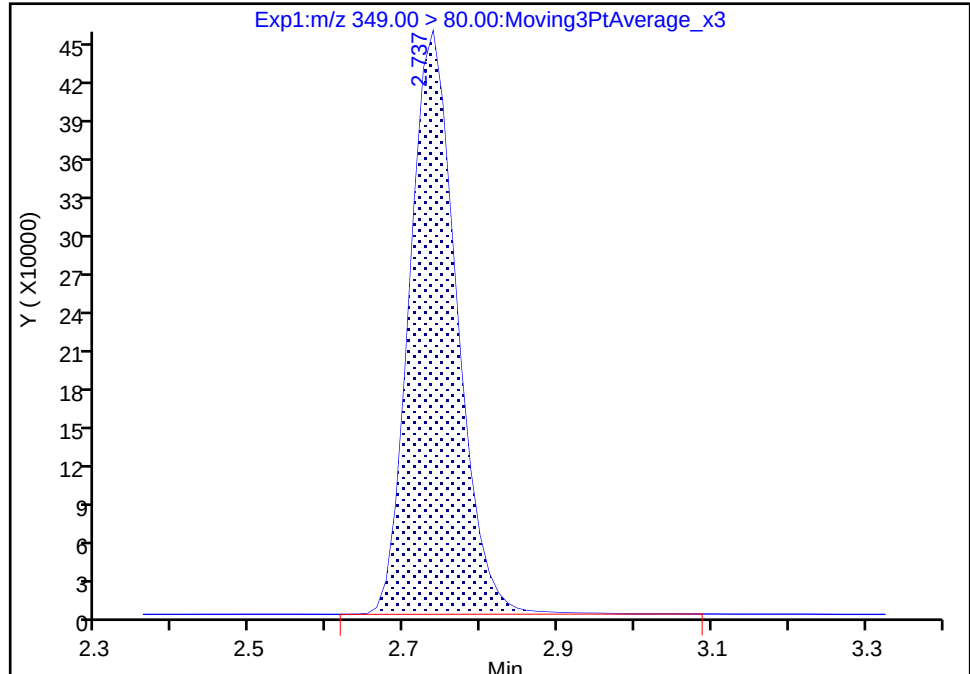
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

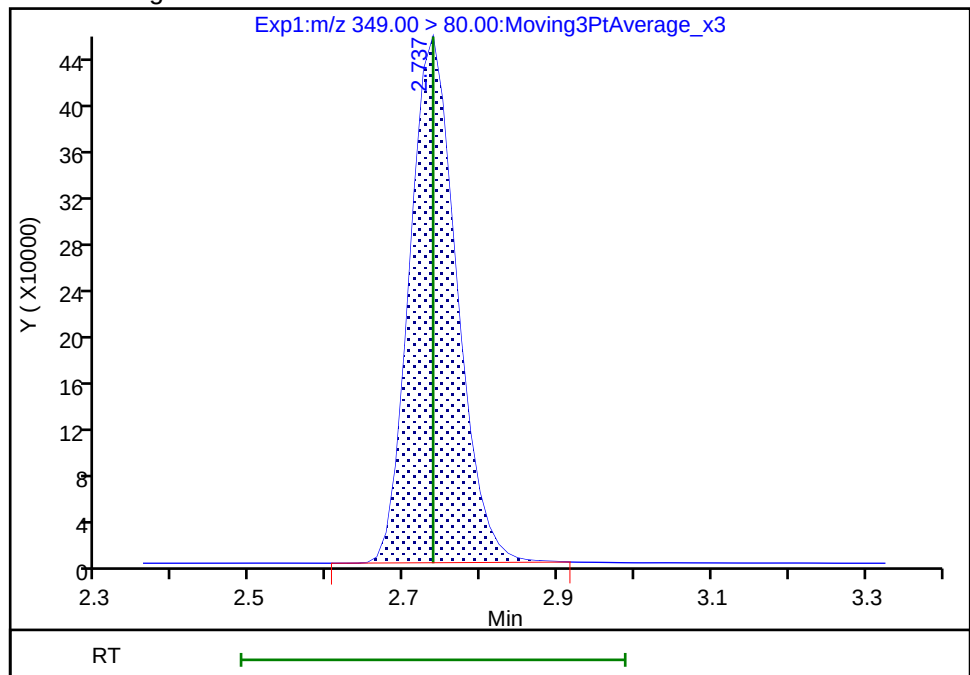
RT: 2.74
Area: 1936279
Amount: 1.104646
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 1925334
Amount: 1.098402
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

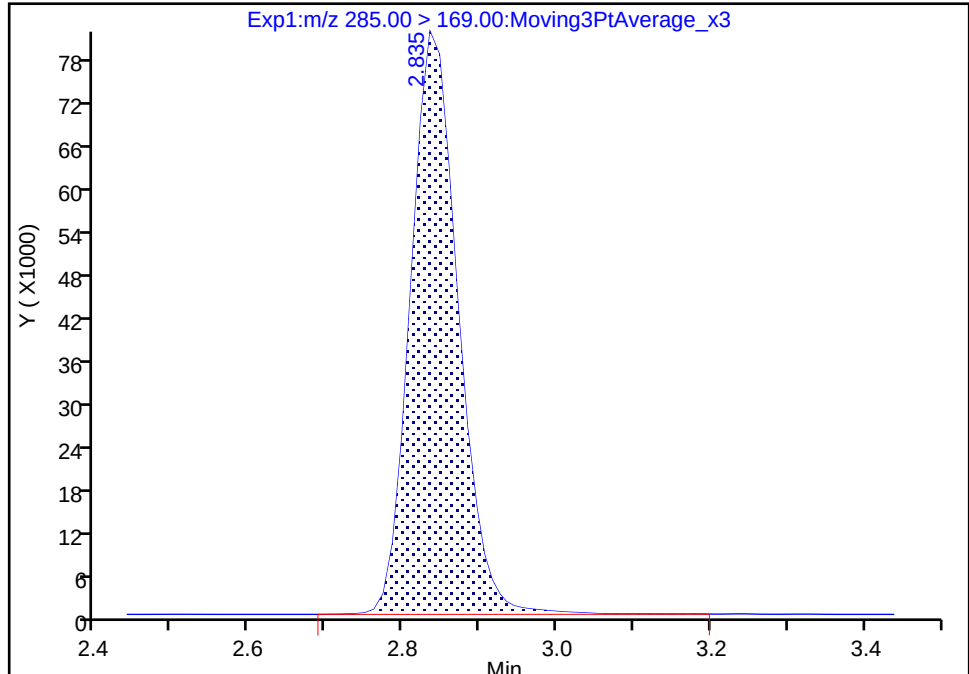
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

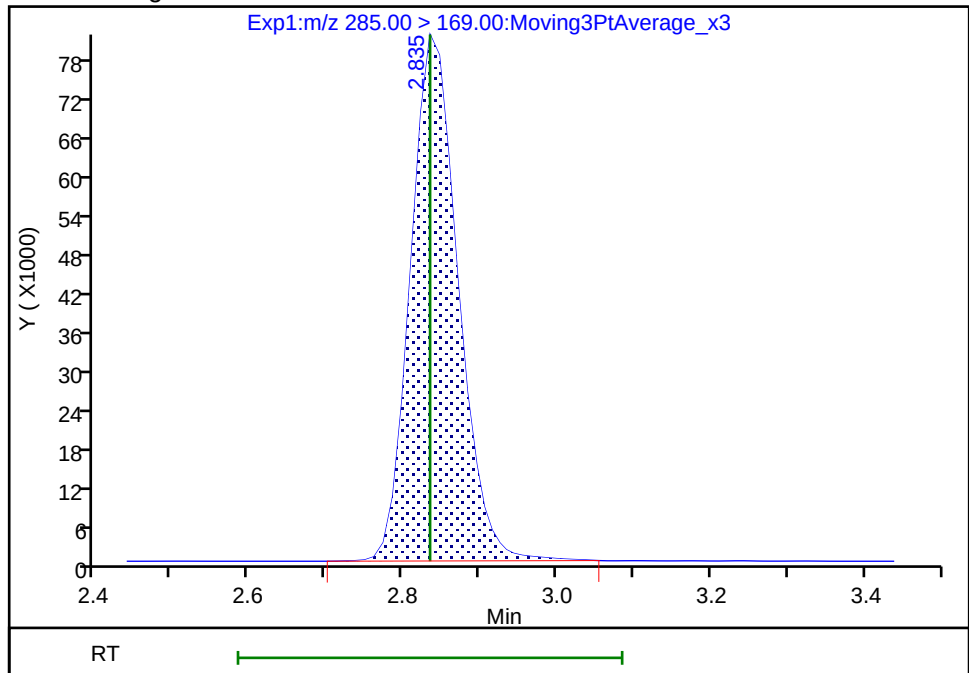
RT: 2.83
Area: 349656
Amount: 1.072576
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 348107
Amount: 1.067825
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:28:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

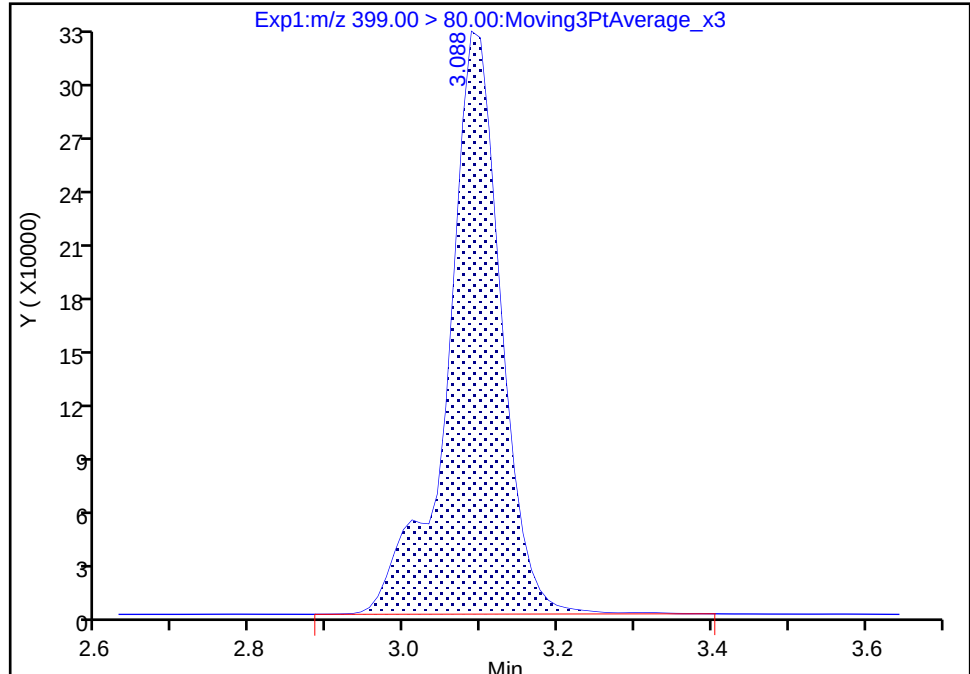
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

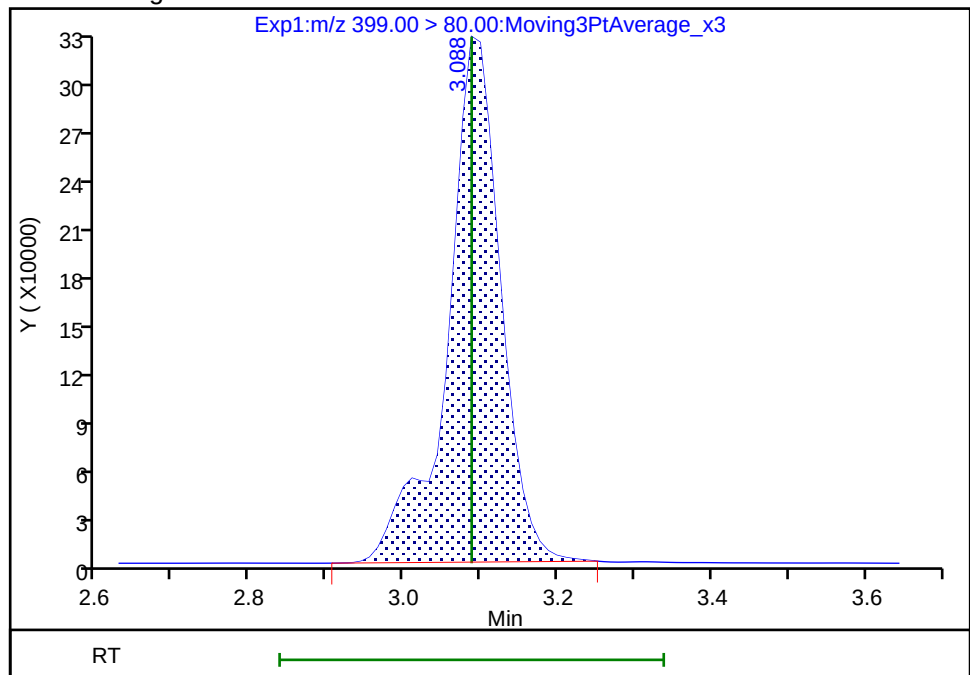
RT: 3.09
Area: 1580261
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1565688
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

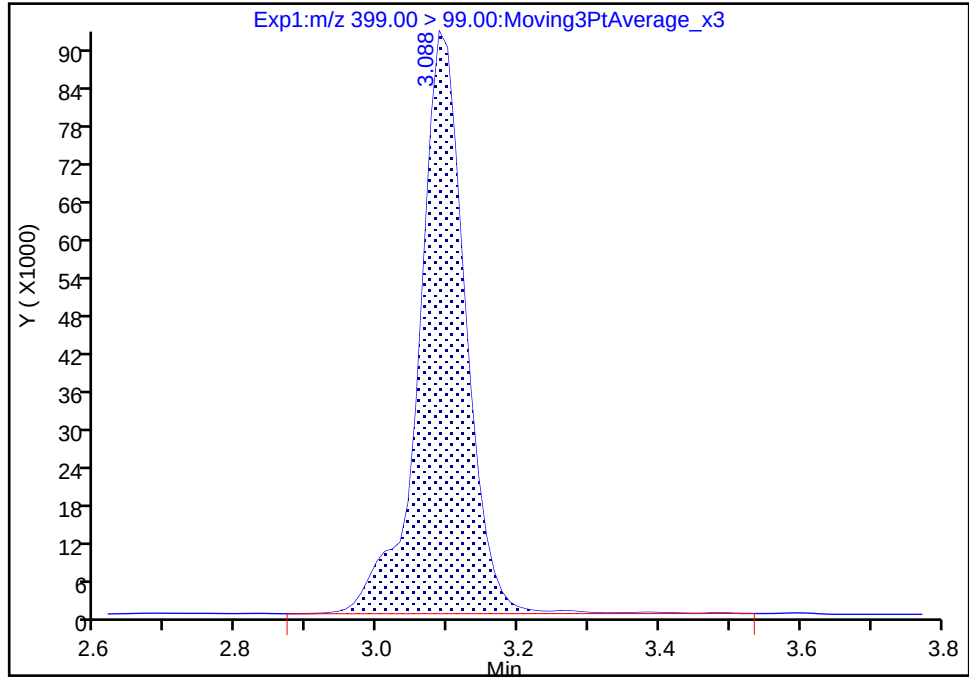
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

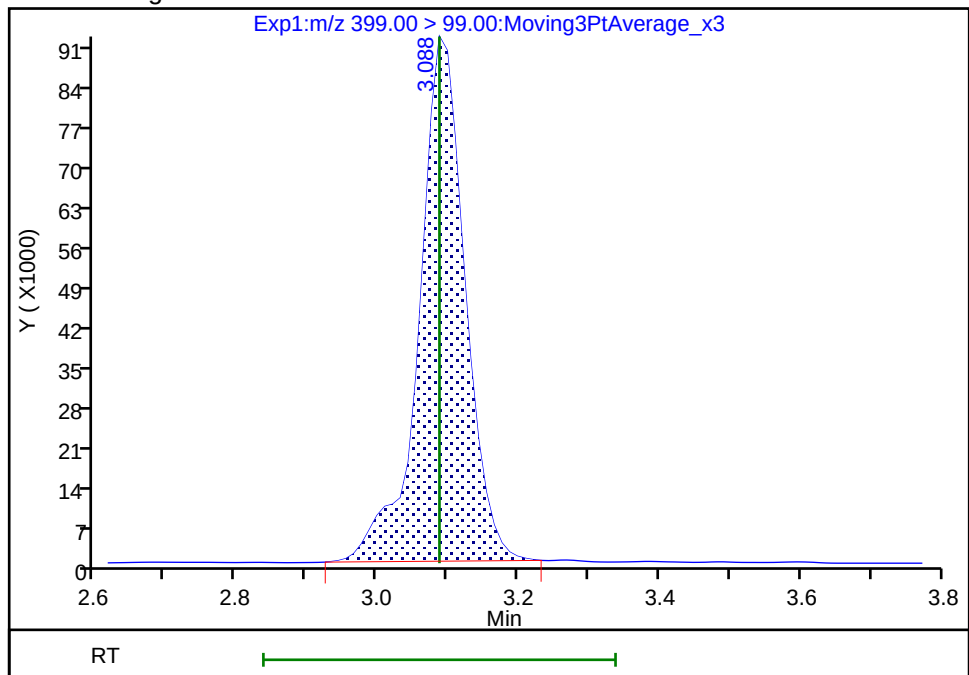
RT: 3.09
Area: 423789
Amount: 1.066710
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 416511
Amount: 1.056873
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 594 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

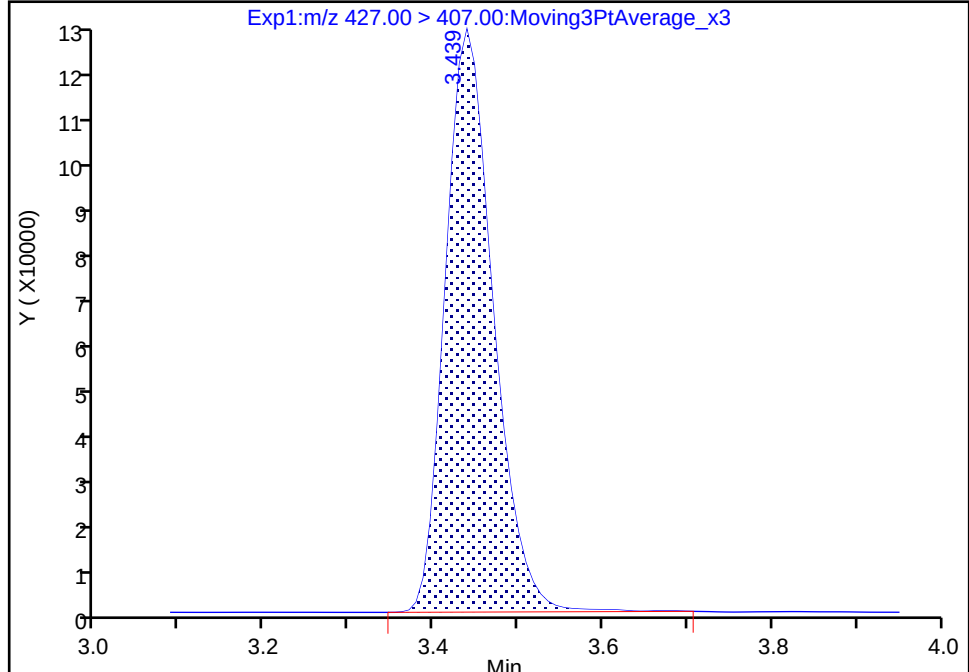
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

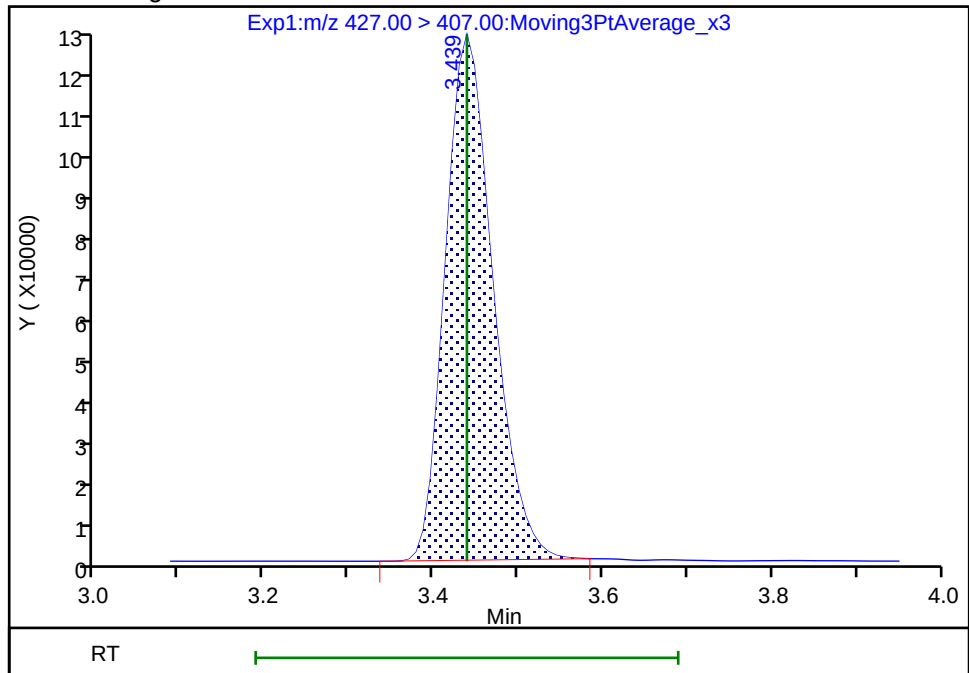
RT: 3.44
Area: 502234
Amount: 1.072151
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 497227
Amount: 1.061344
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

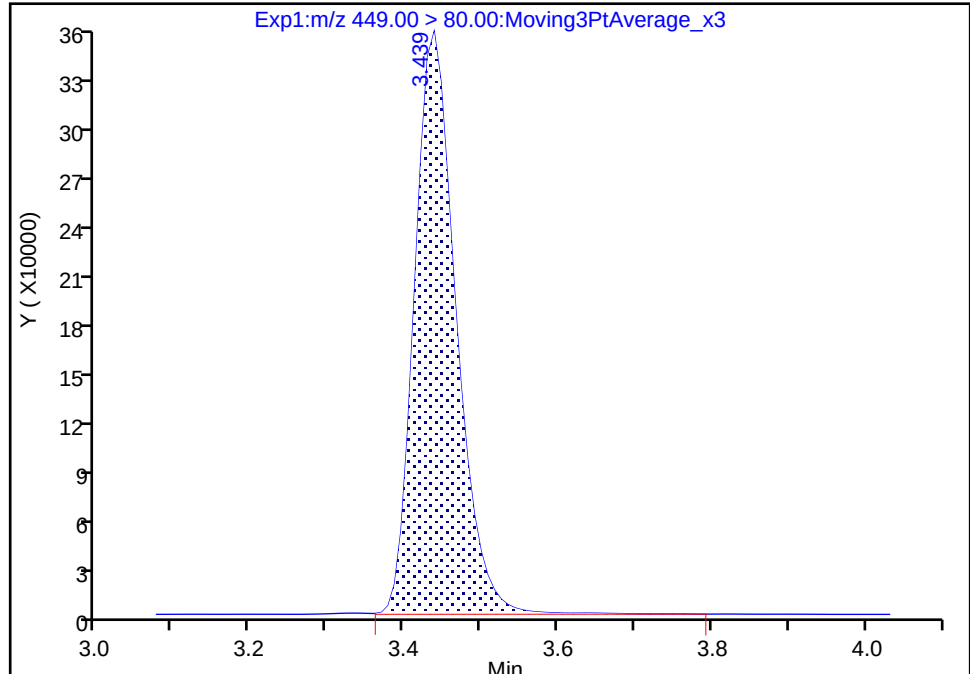
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

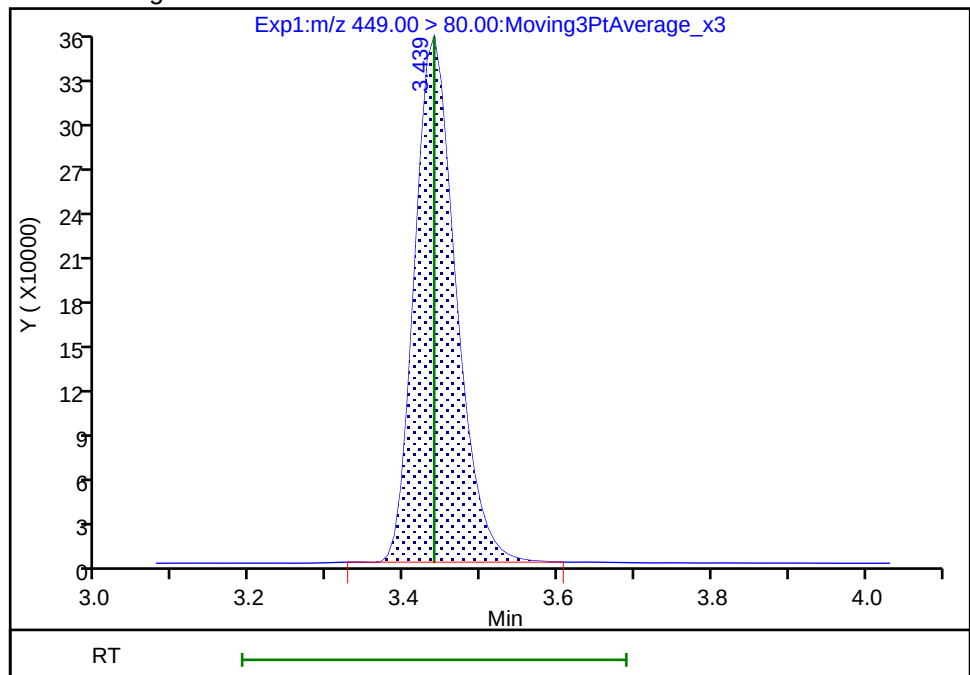
RT: 3.44
Area: 1318008
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1304864
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

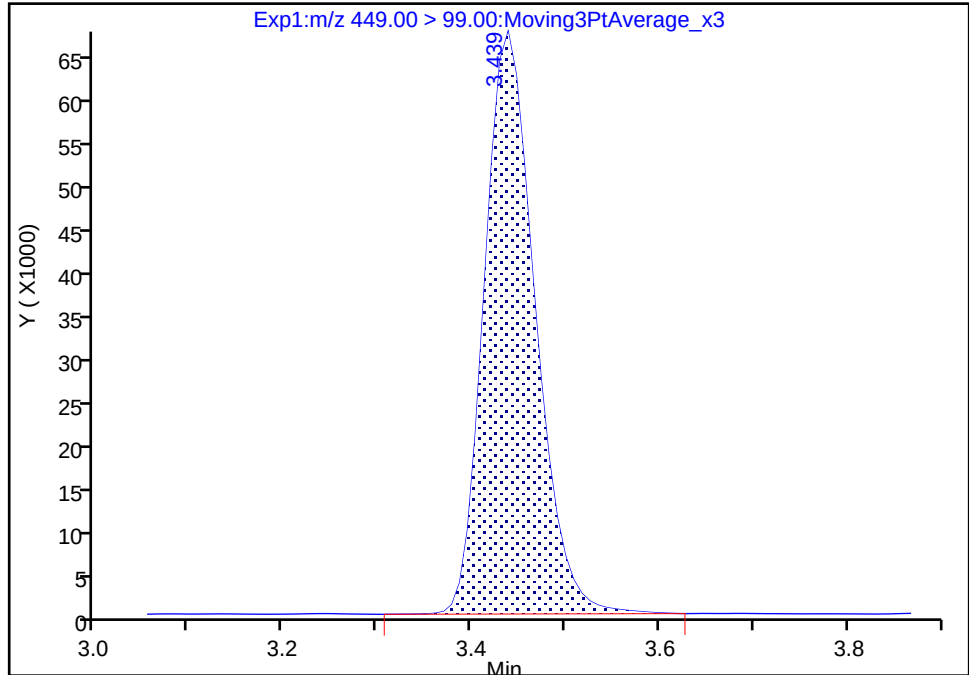
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

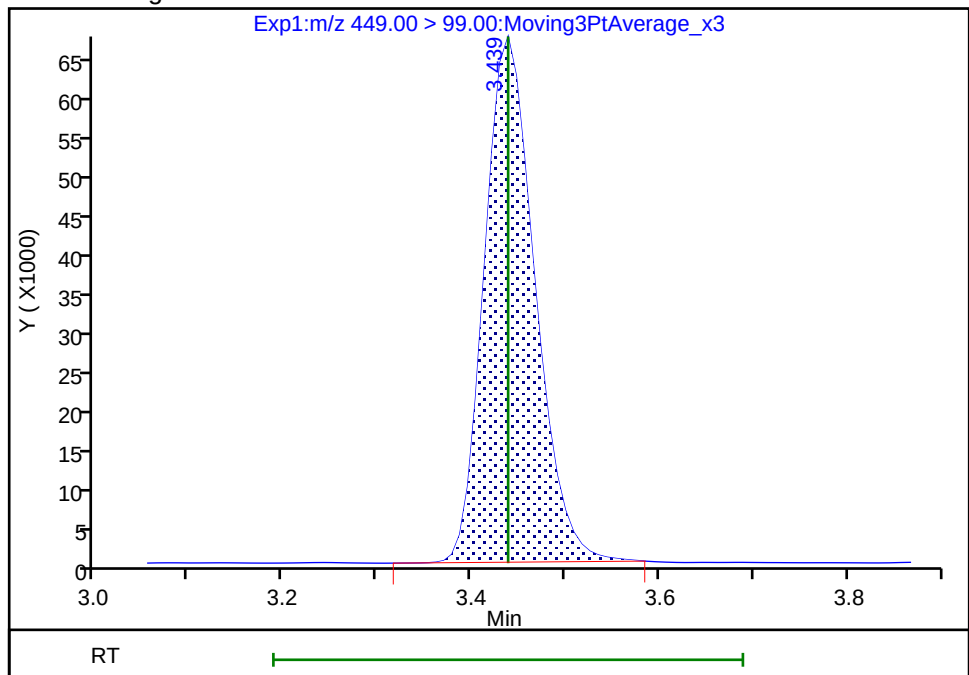
RT: 3.44
Area: 253988
Amount: 1.043678
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 252176
Amount: 1.033270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 597 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

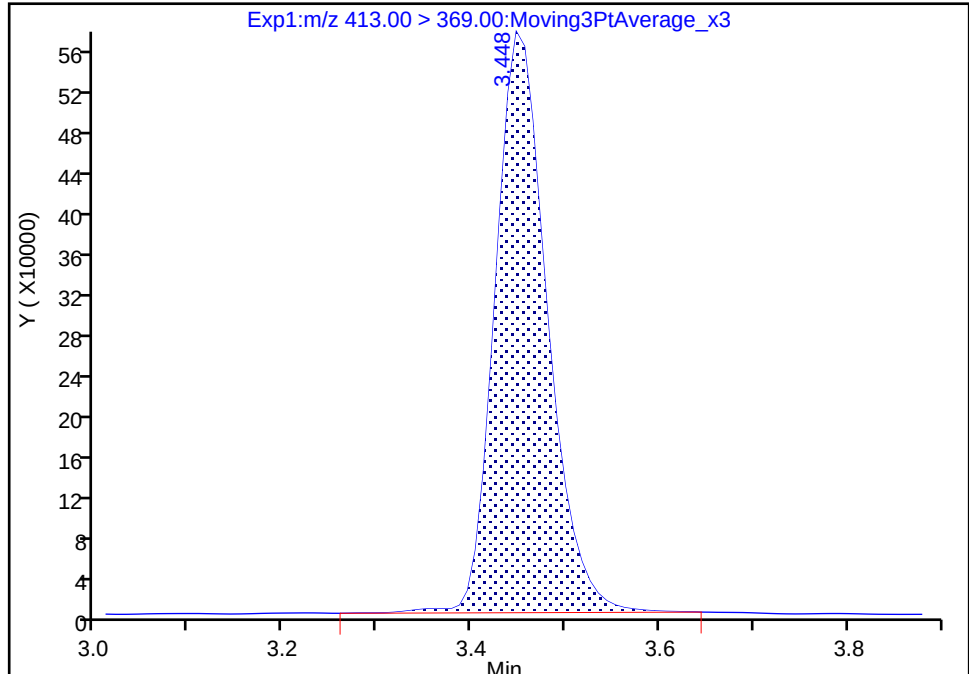
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

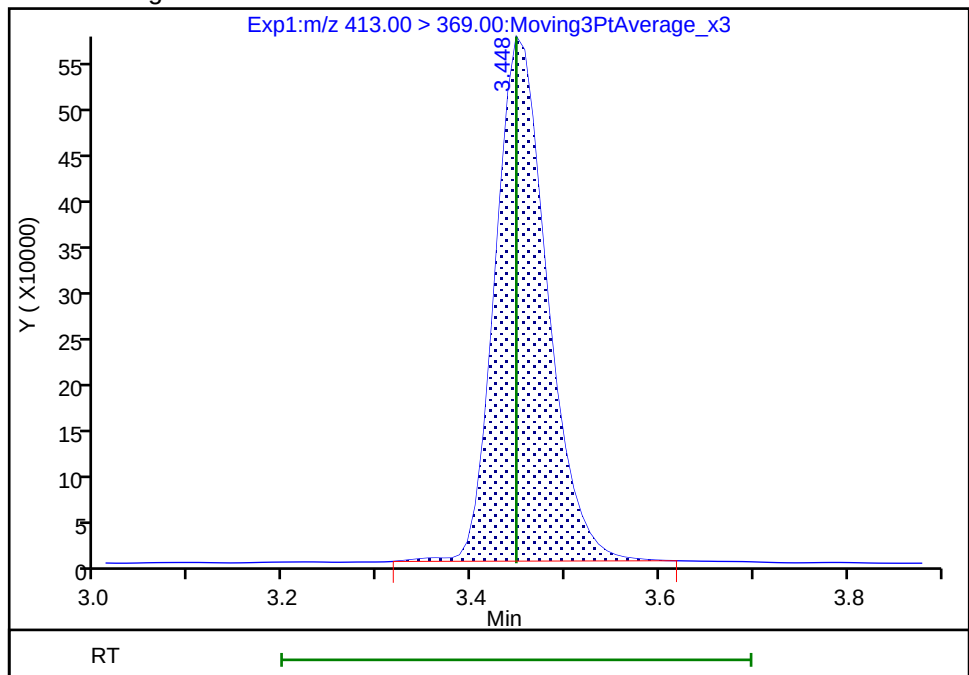
RT: 3.45
Area: 2210155
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 2197145
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

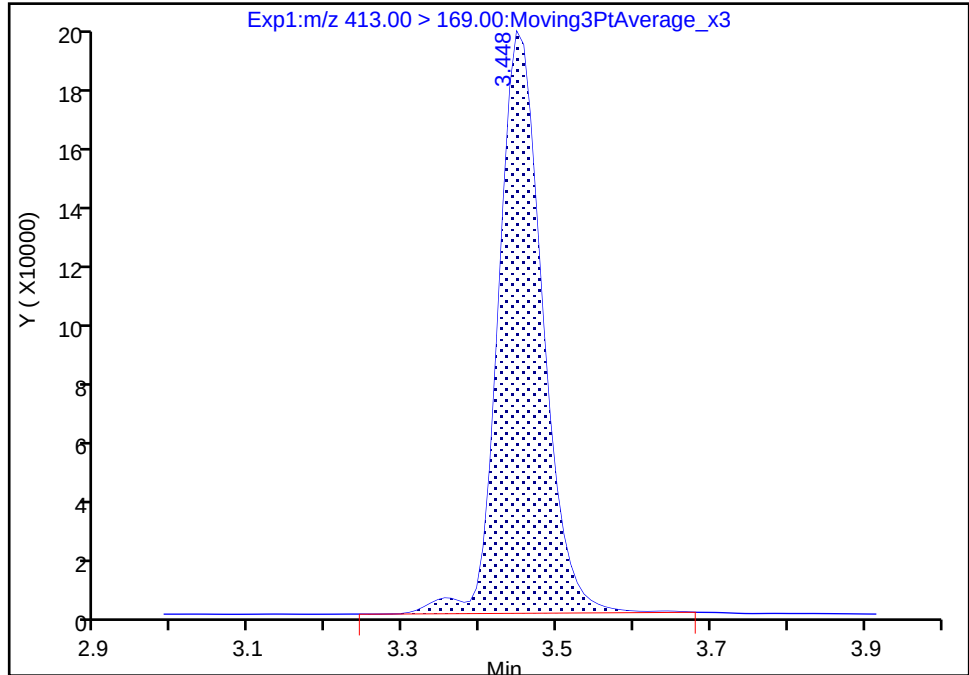
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

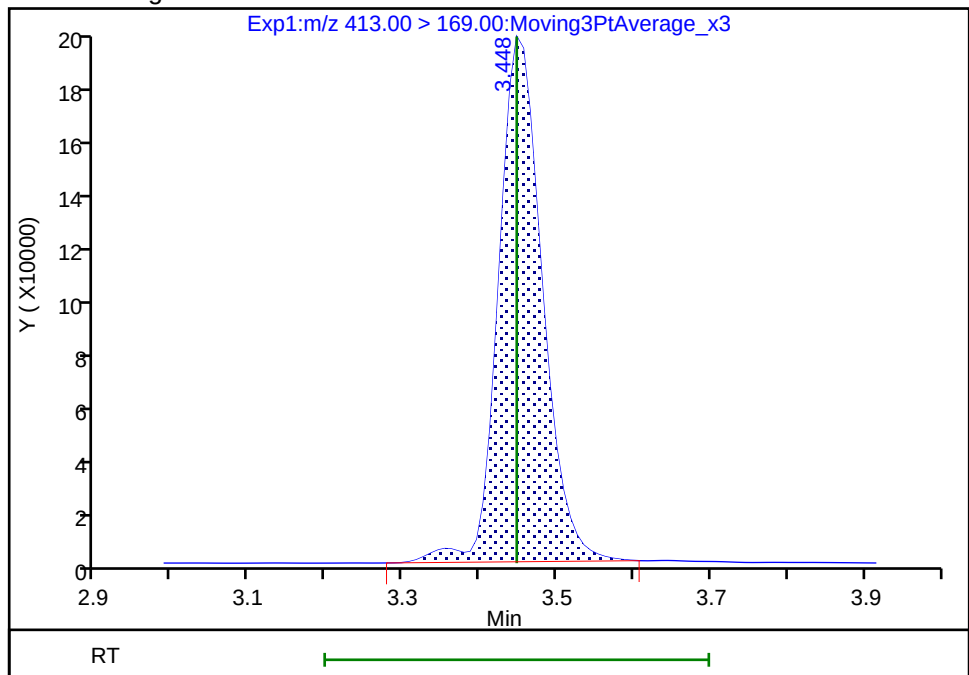
RT: 3.45
Area: 778853
Amount: 1.028931
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 773803
Amount: 1.022875
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 599 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

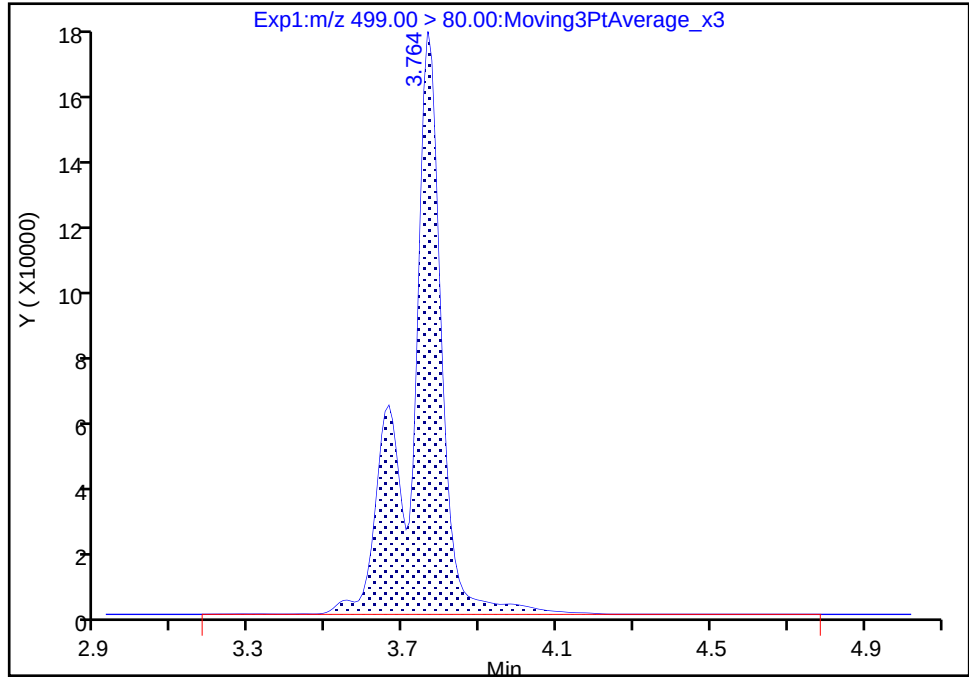
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

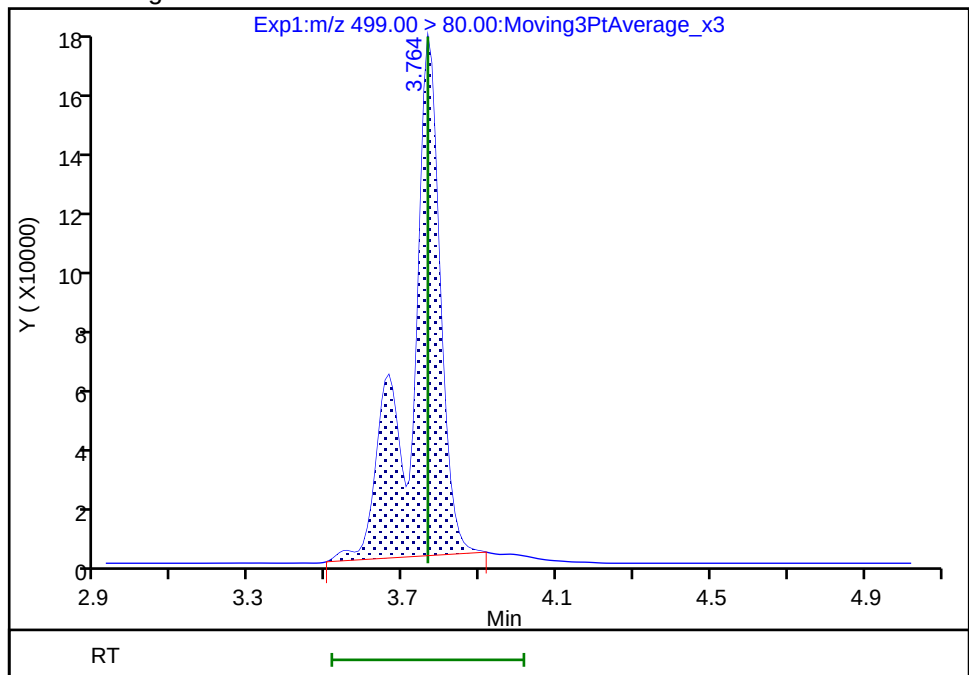
RT: 3.76
Area: 1017852
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 936613
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

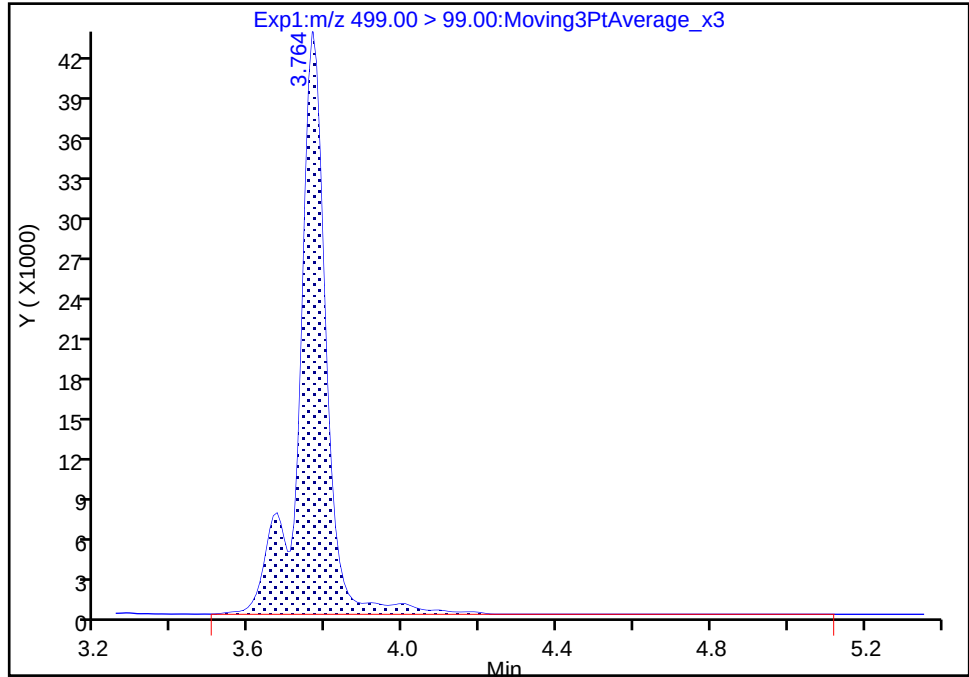
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

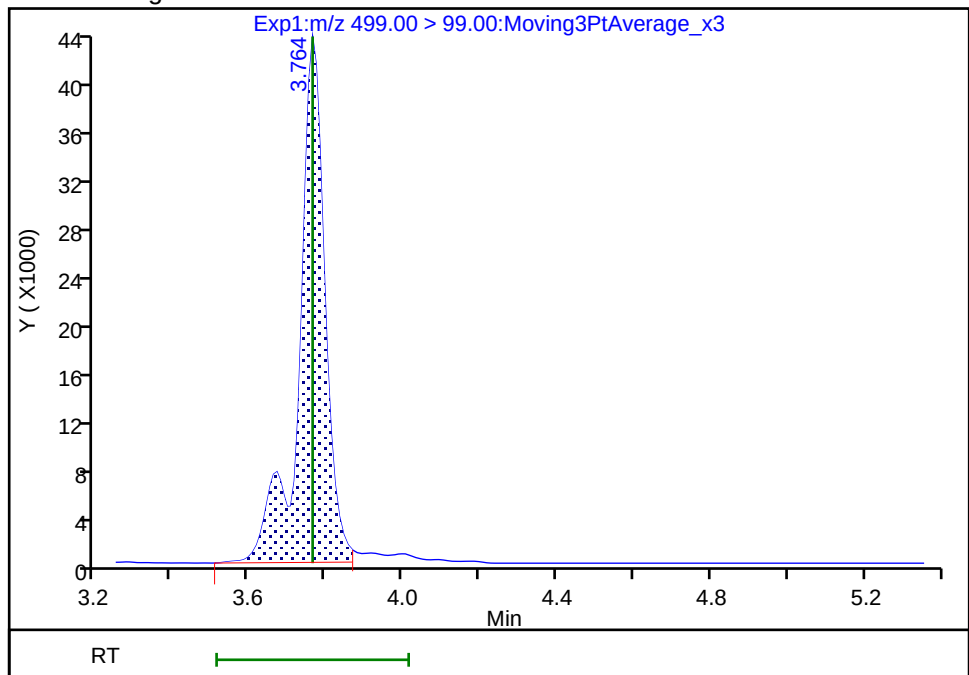
RT: 3.76
Area: 215493
Amount: 0.925675
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 204498
Amount: 0.851793
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:29:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

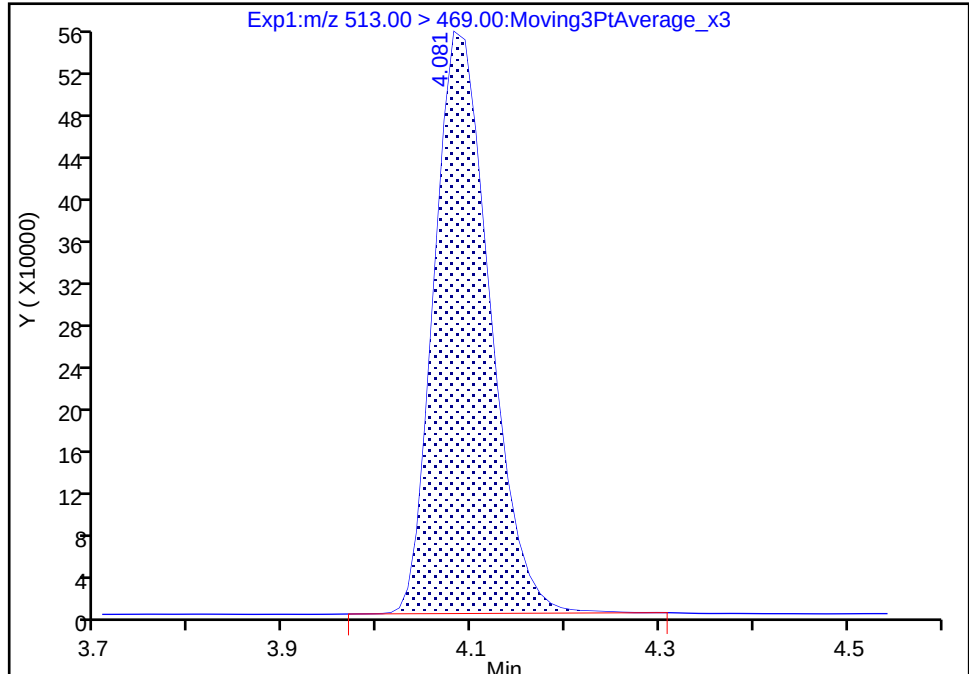
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

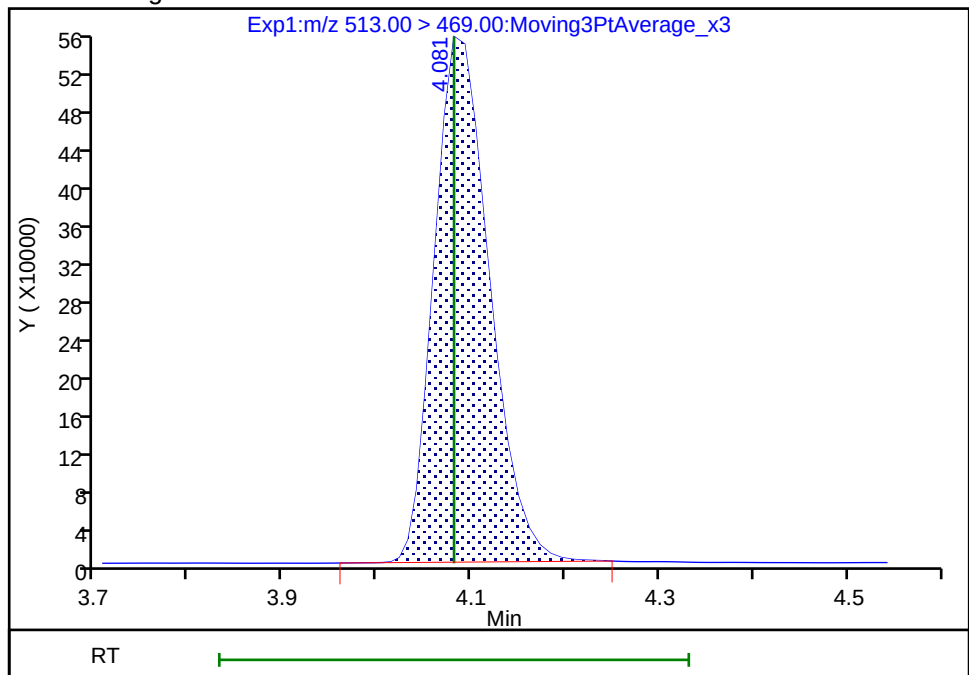
RT: 4.08
Area: 2277302
Amount: 1.004177
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2269026
Amount: 1.000528
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

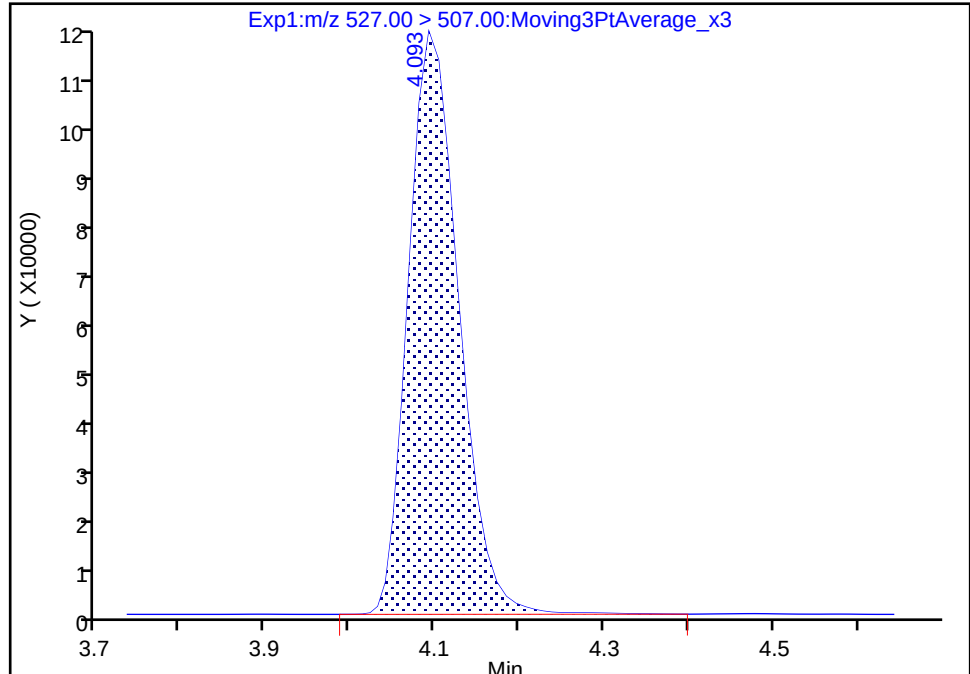
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

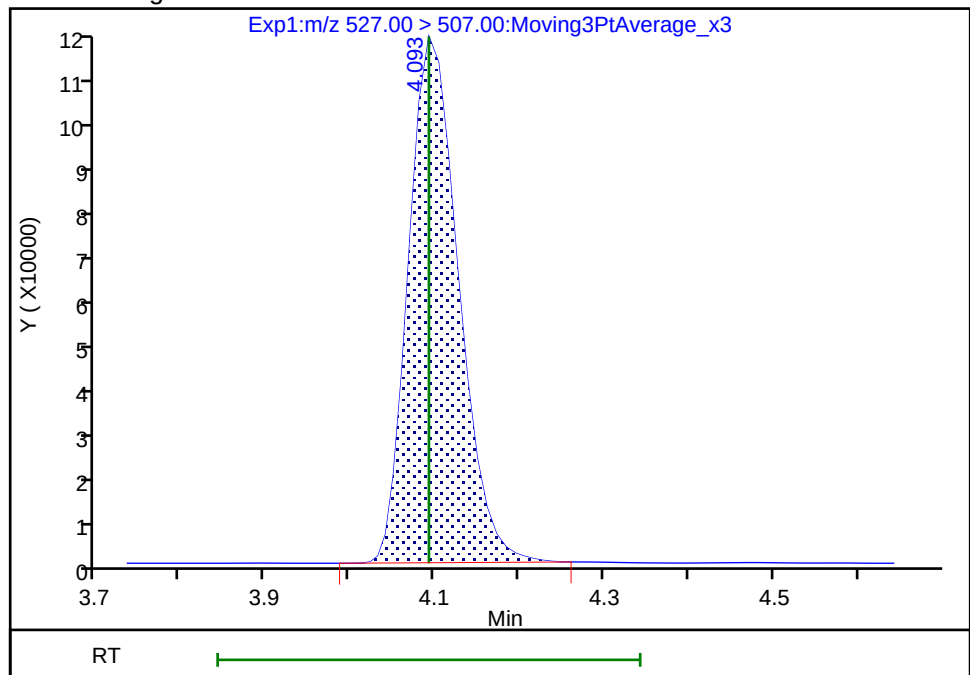
RT: 4.09
Area: 484745
Amount: 1.107834
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 481604
Amount: 1.100655
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

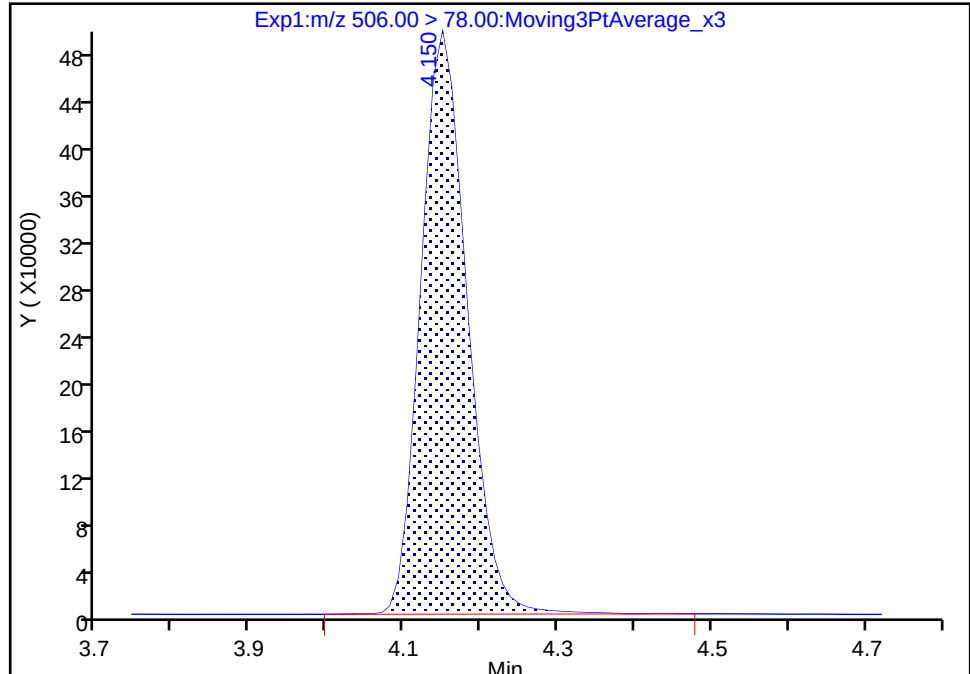
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

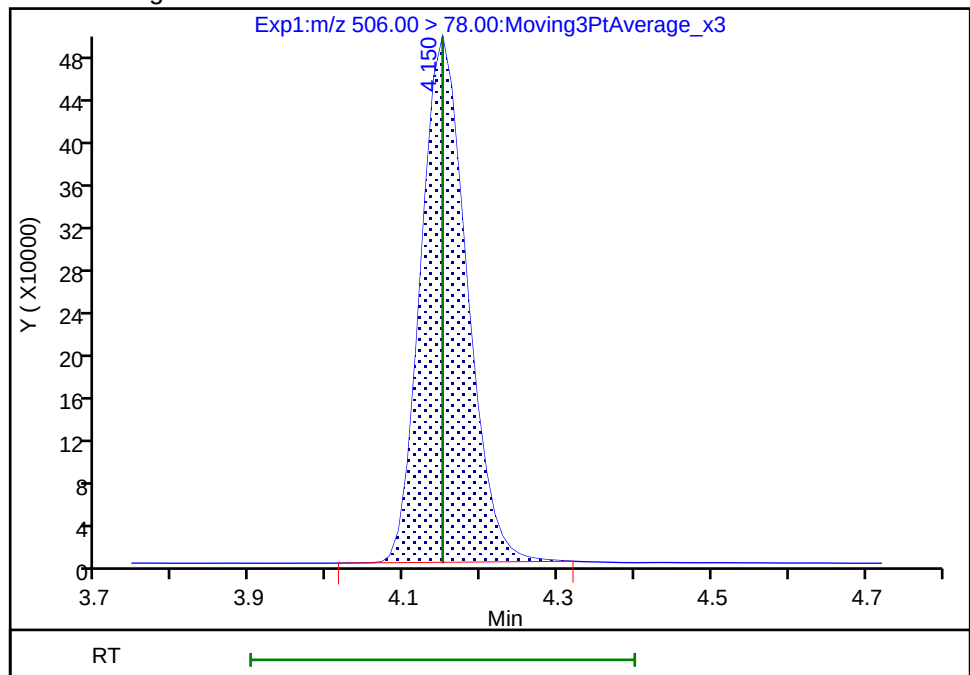
RT: 4.15
Area: 2074977
Amount: 1.063614
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2056044
Amount: 1.053909
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:30:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

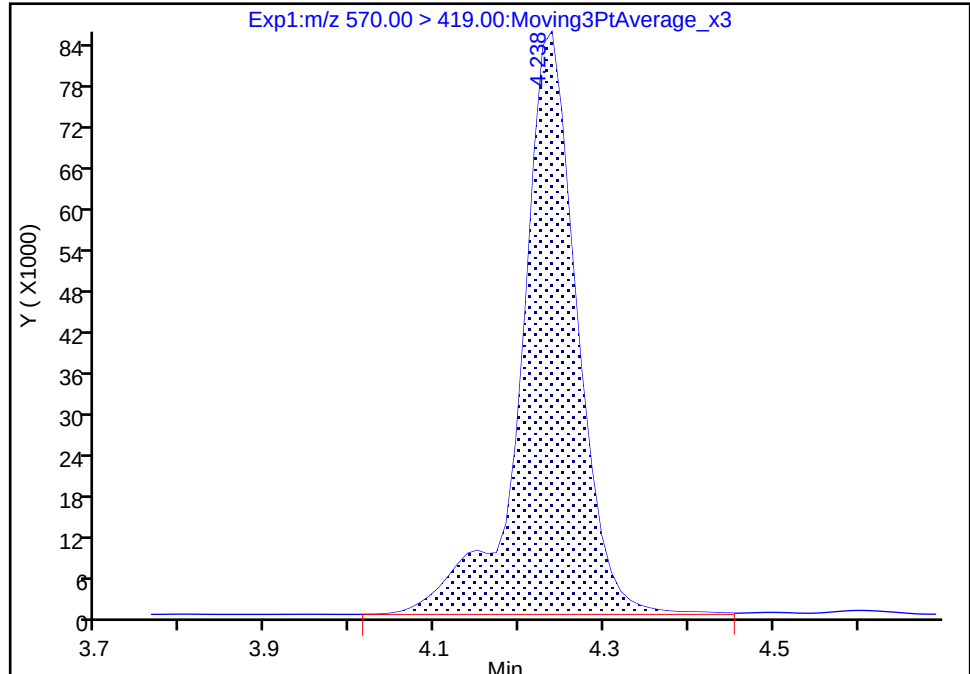
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

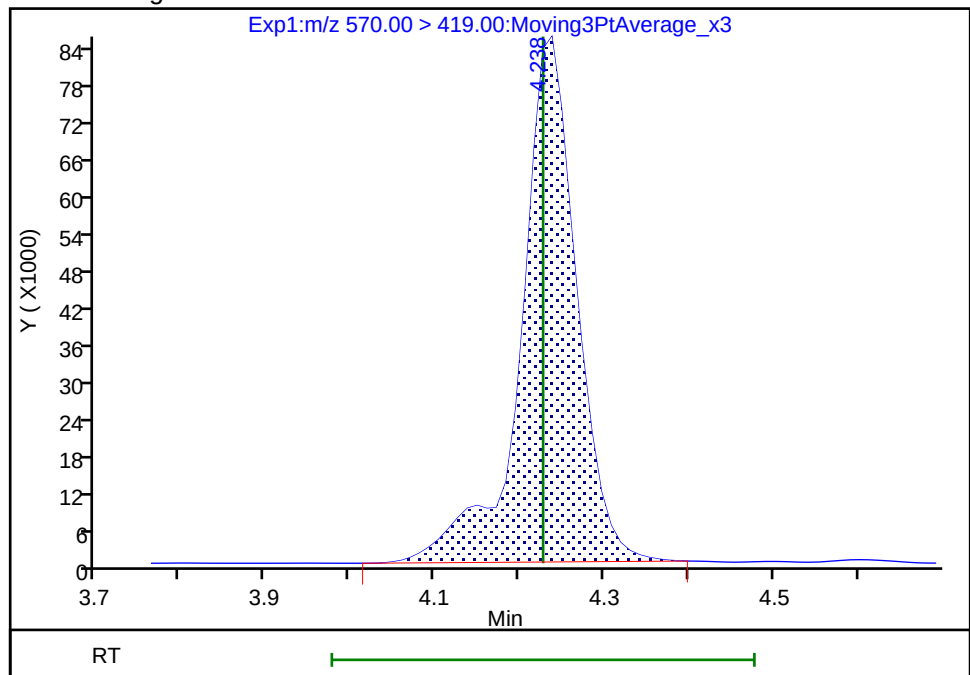
RT: 4.24
Area: 395419
Amount: 1.116920
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 390455
Amount: 1.102753
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

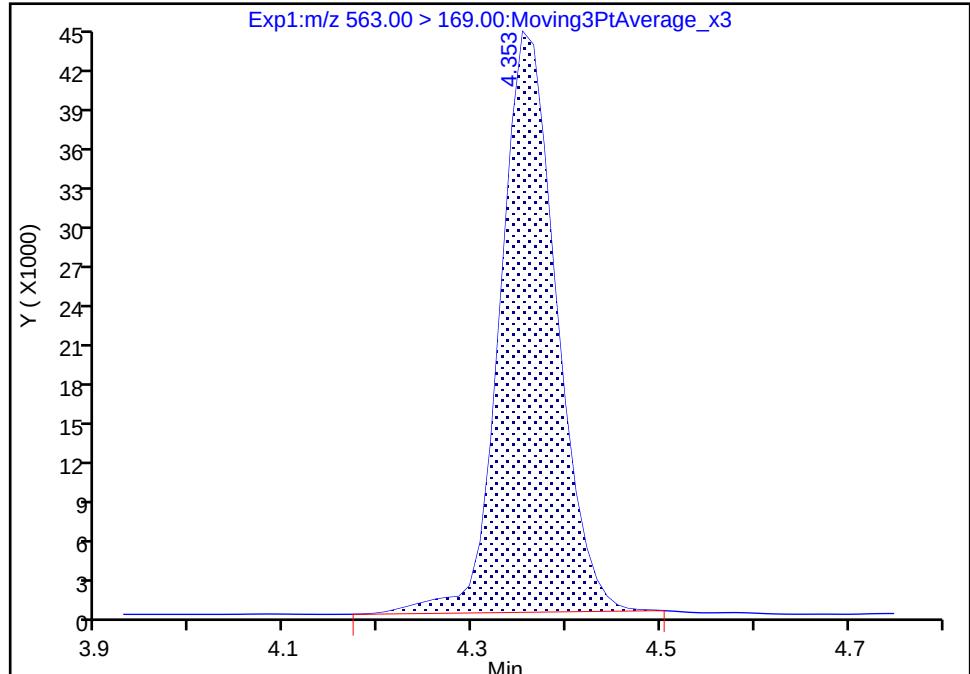
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

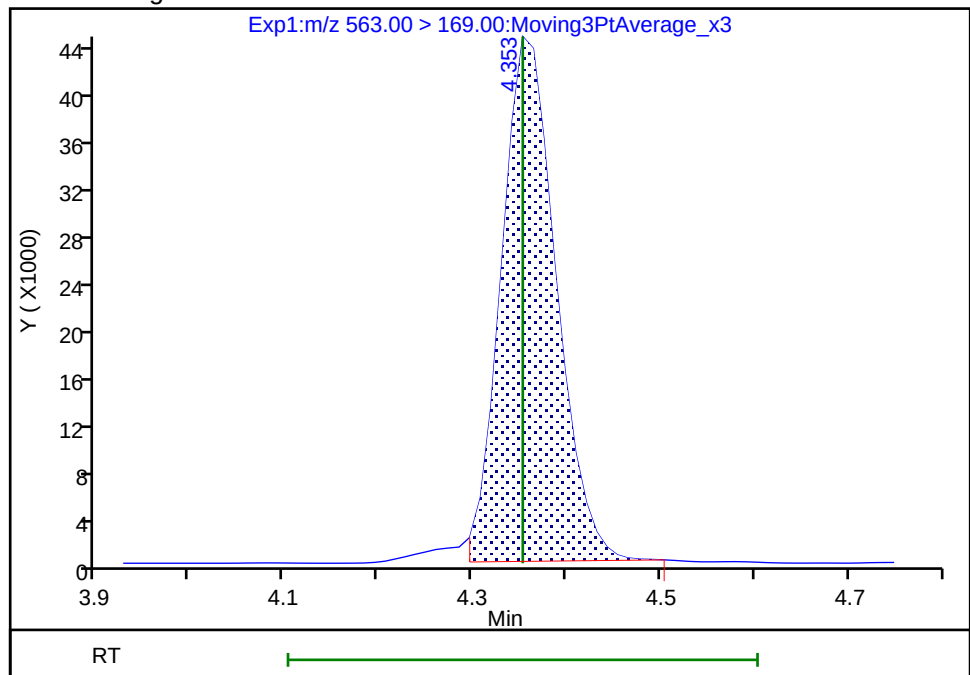
RT: 4.35
Area: 182508
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 177599
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

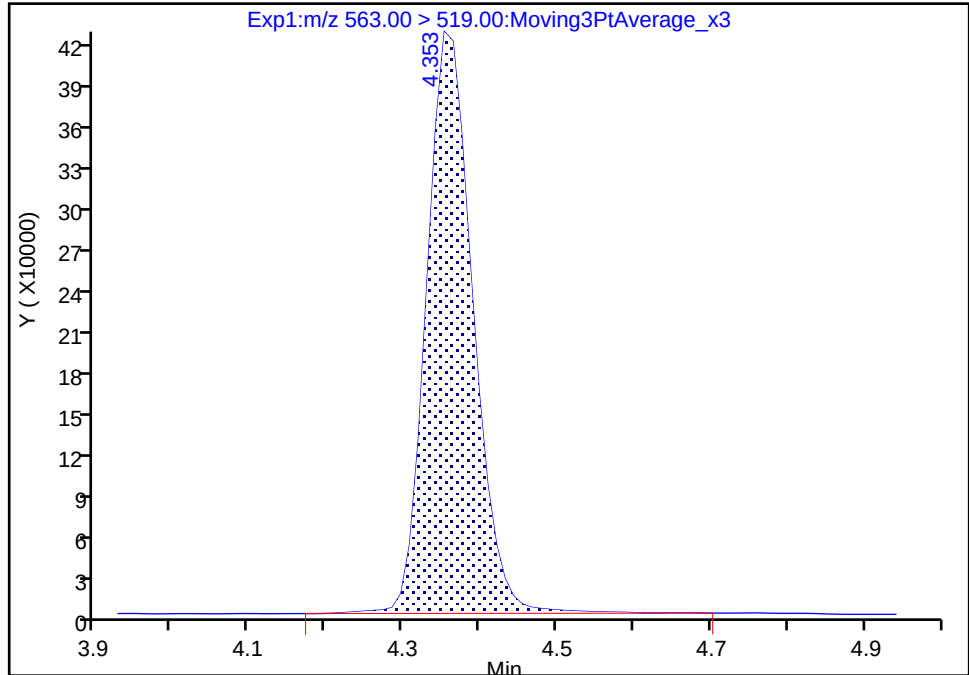
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

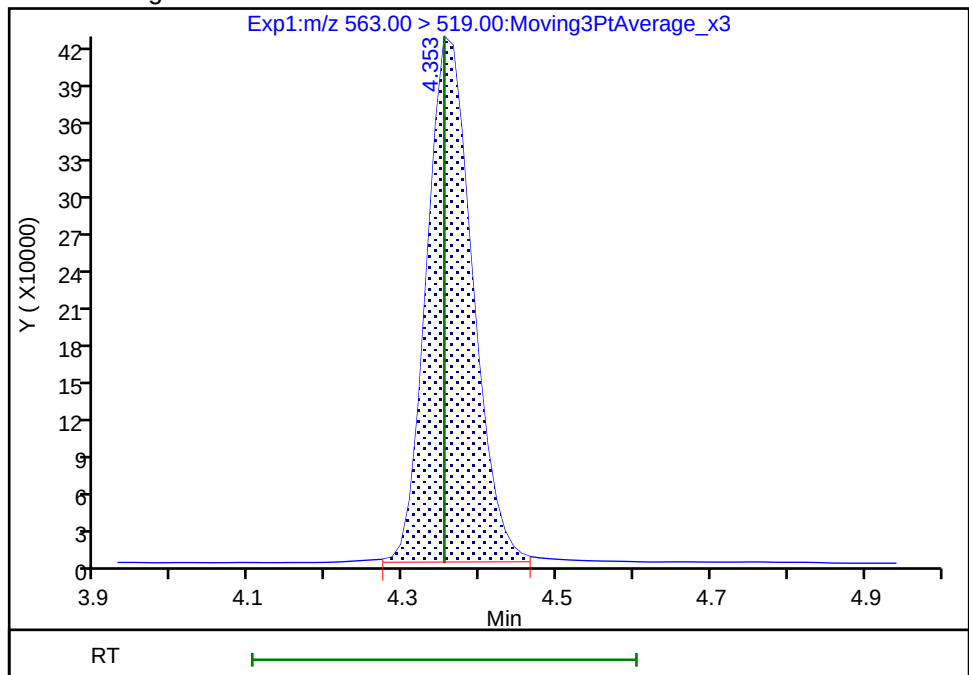
RT: 4.35
Area: 1763312
Amount: 0.975318
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1739241
Amount: 0.962003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:31:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

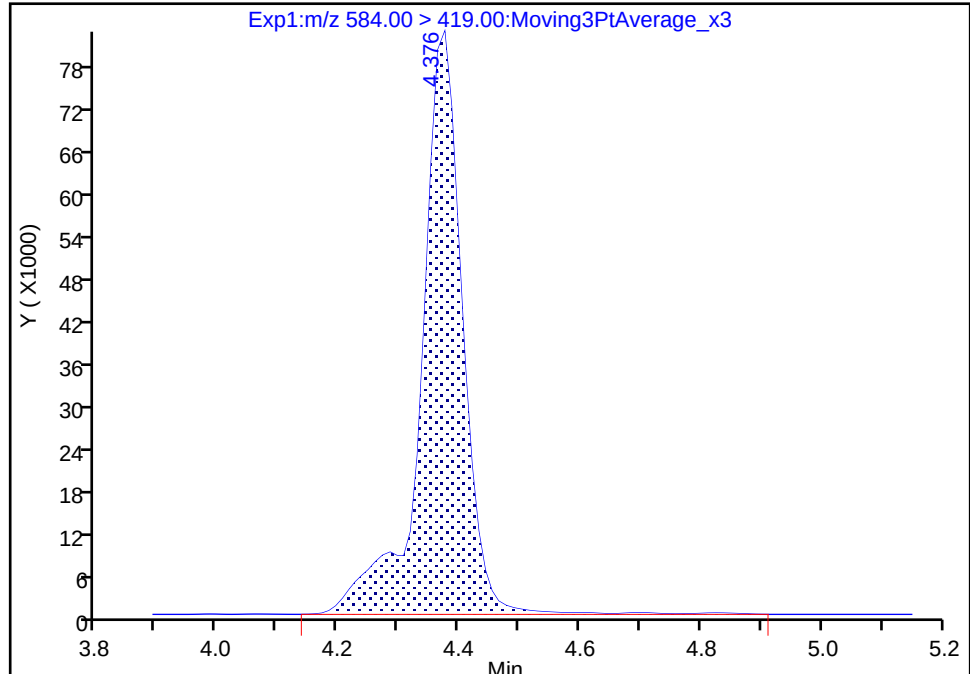
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

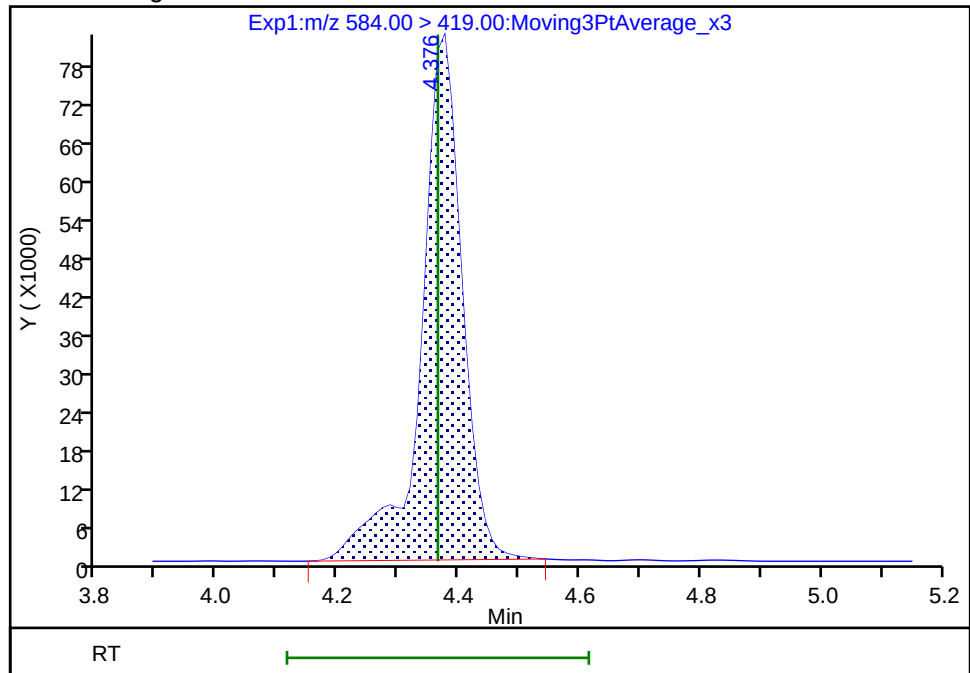
RT: 4.38
Area: 392736
Amount: 1.062553
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 385250
Amount: 1.042299
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

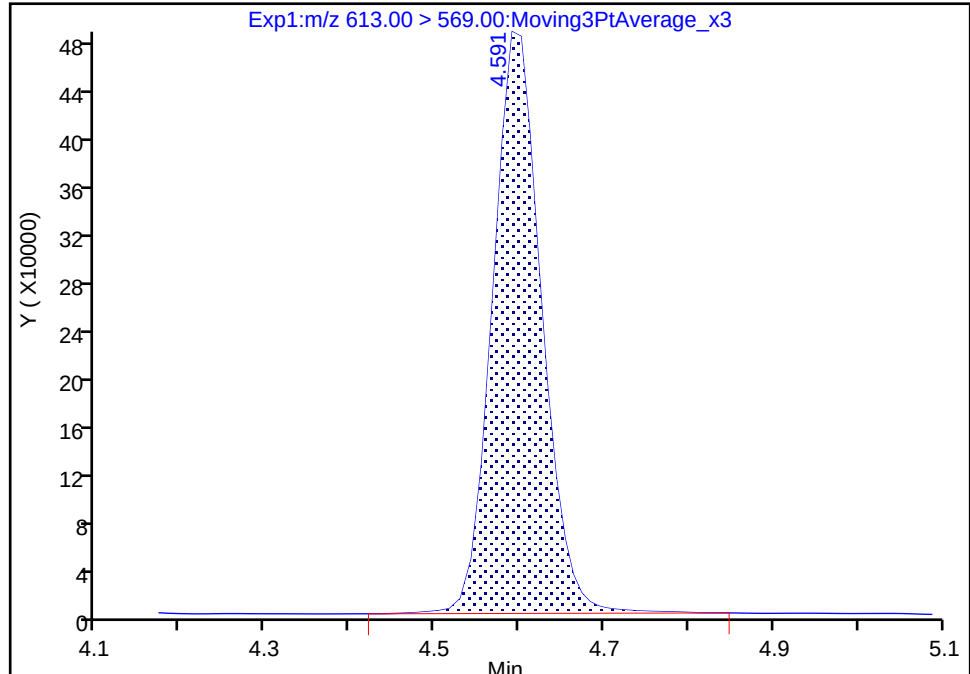
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

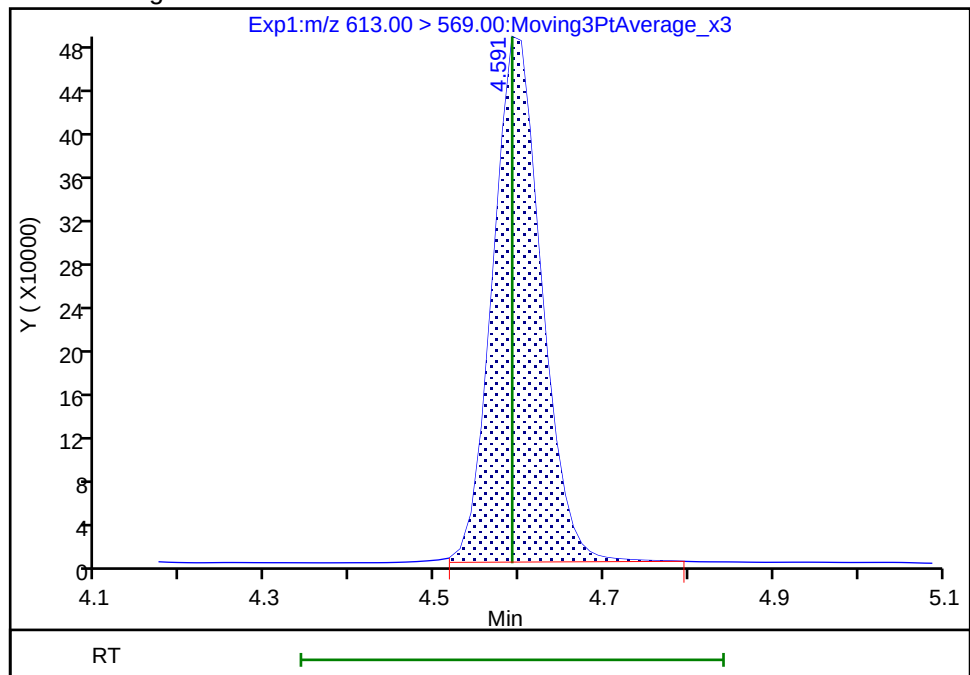
RT: 4.59
Area: 1962968
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 1949526
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

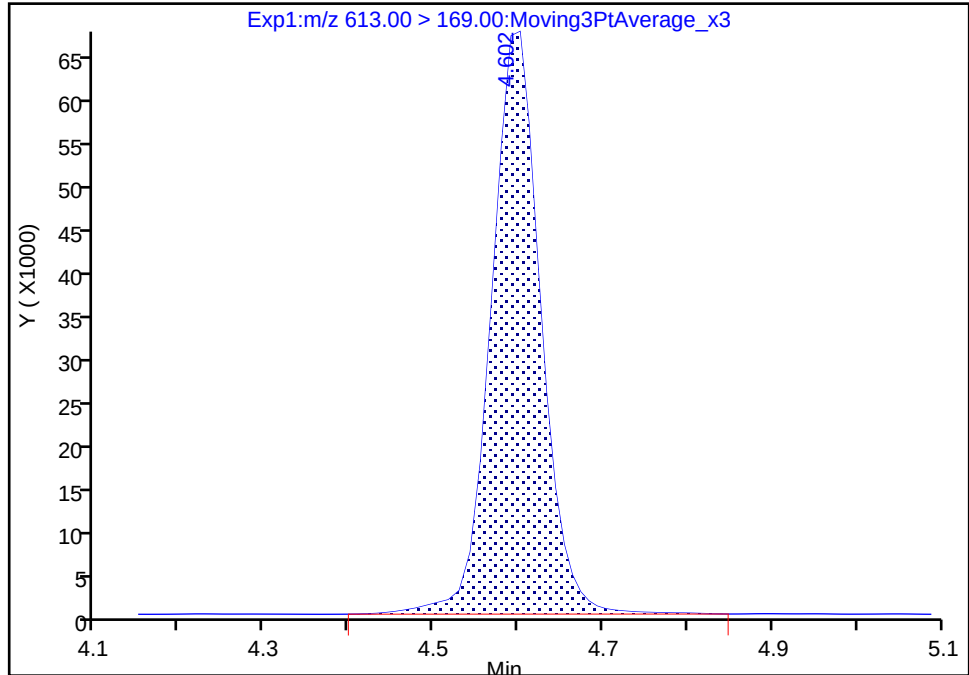
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

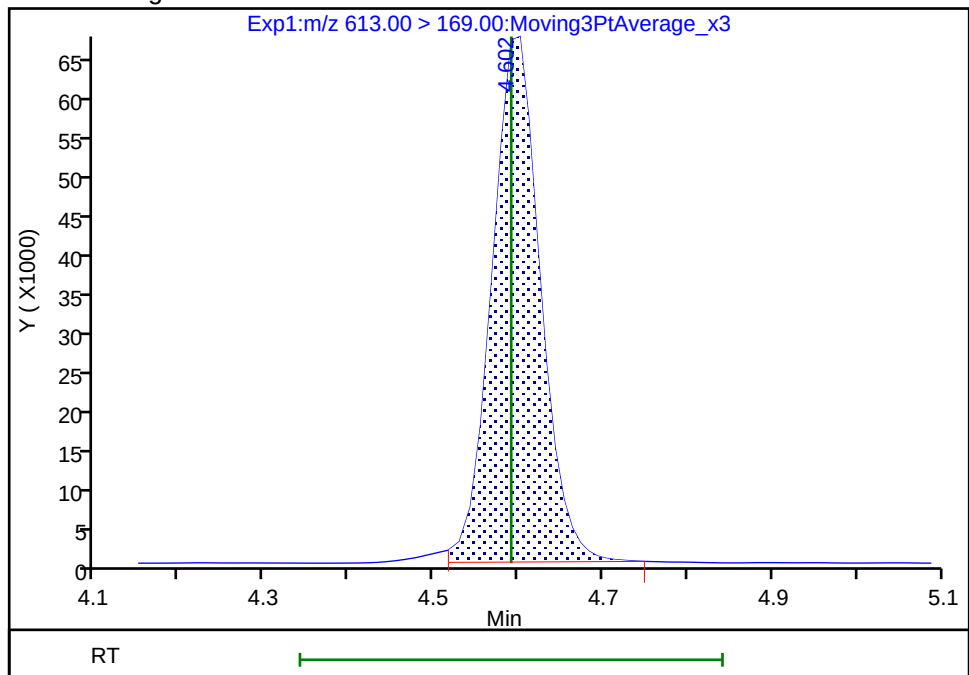
RT: 4.60
Area: 274375
Amount: 0.983300
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 268146
Amount: 0.976567
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

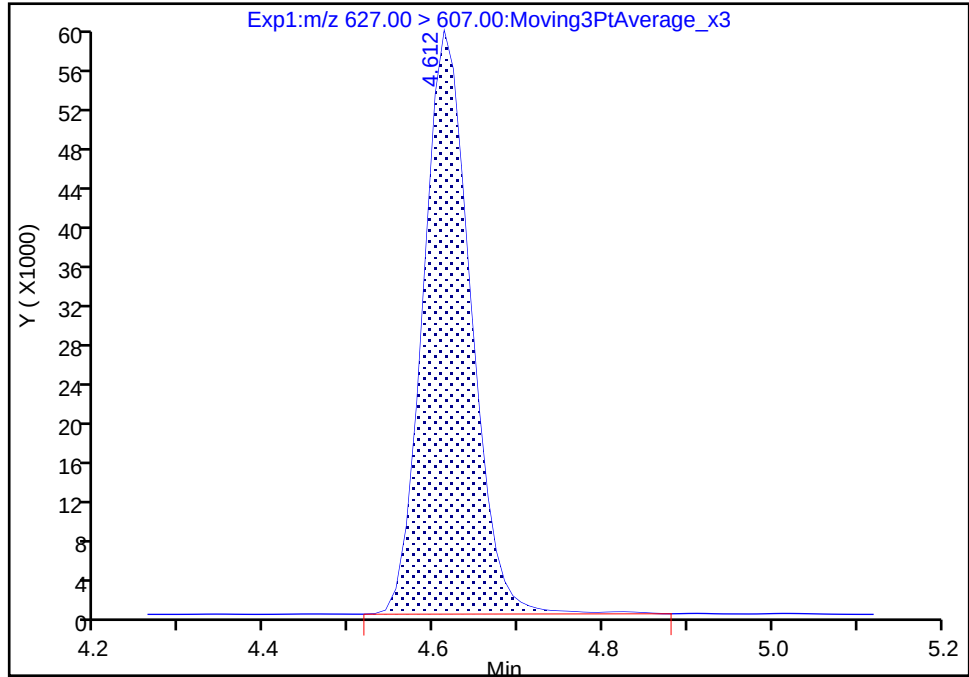
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

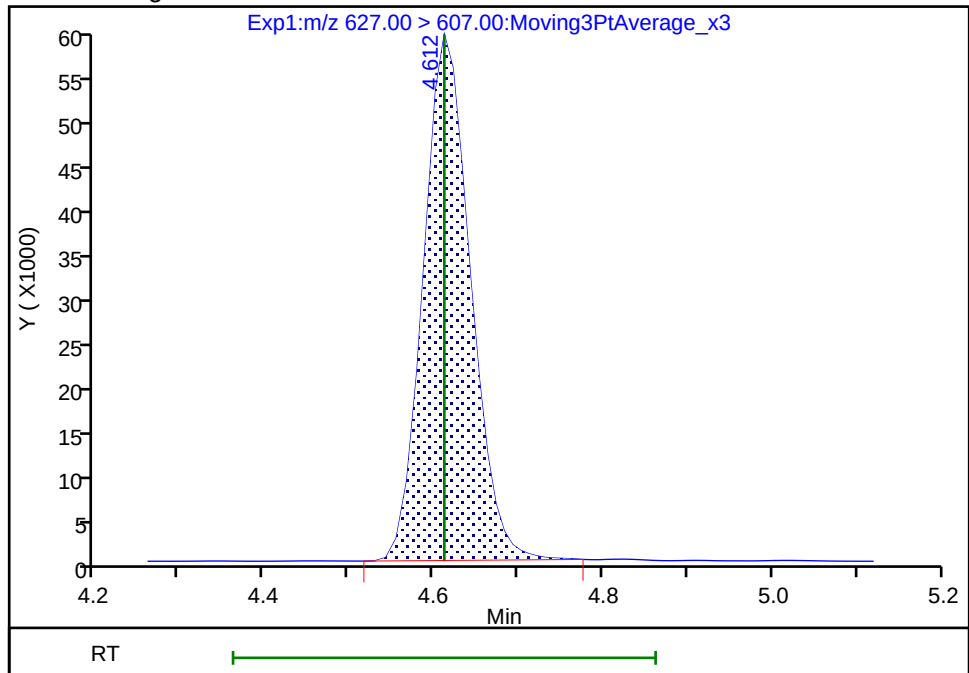
RT: 4.61
Area: 231961
Amount: 0.882195
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 230011
Amount: 0.874779
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

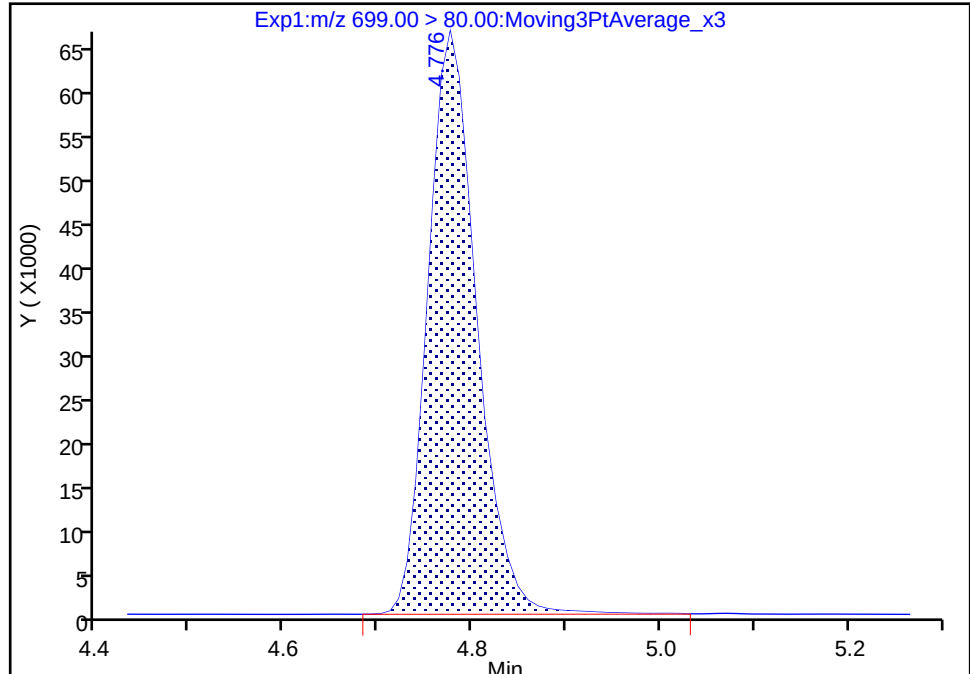
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

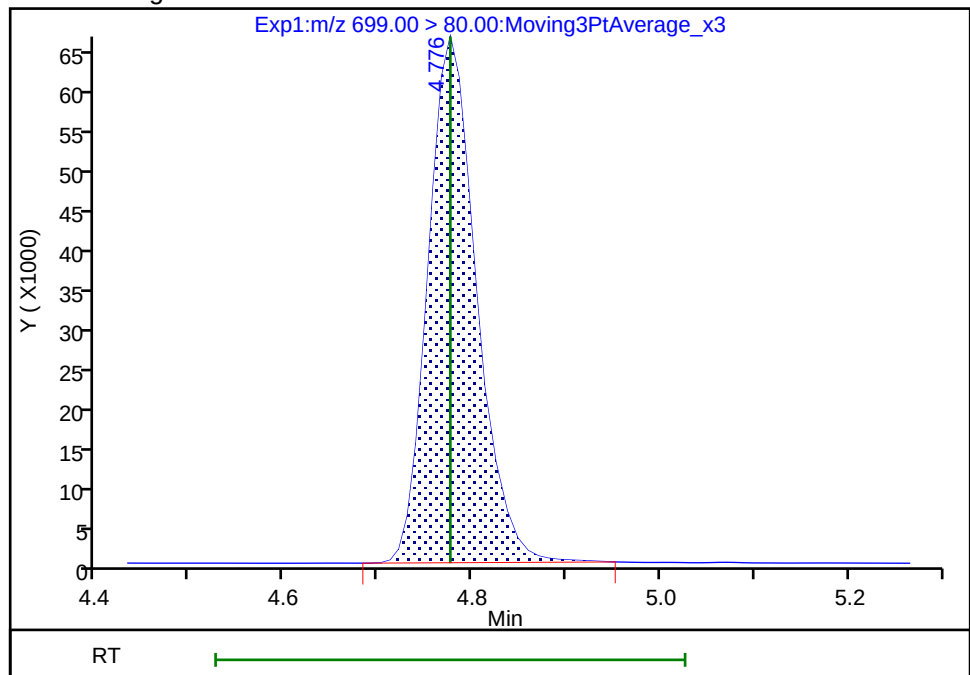
RT: 4.78
Area: 238904
Amount: 0.861661
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 237361
Amount: 0.856095
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

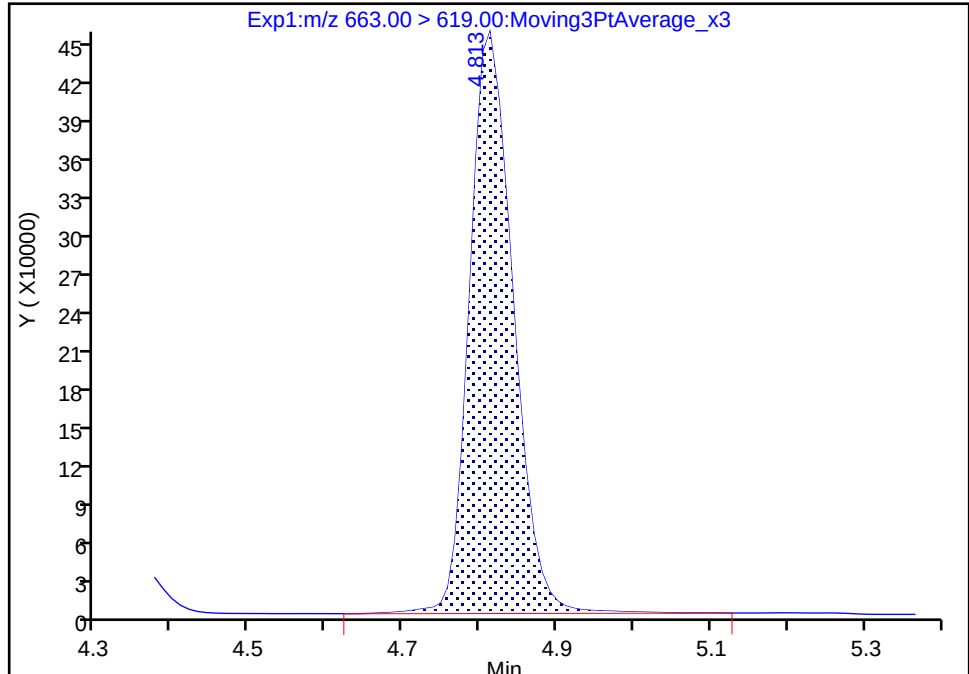
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

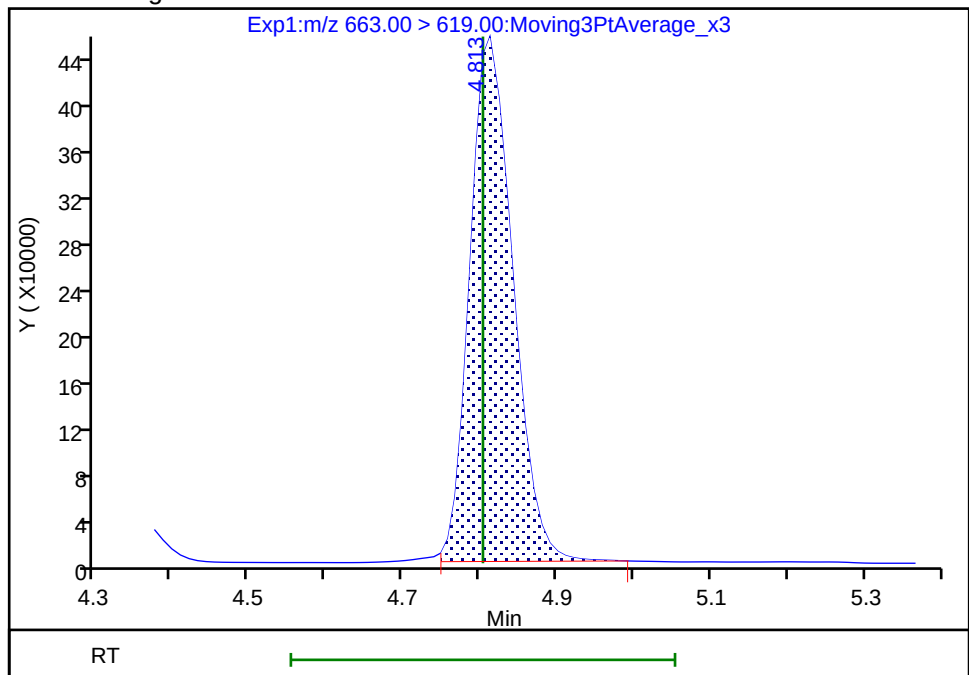
RT: 4.81
Area: 1771634
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1741096
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

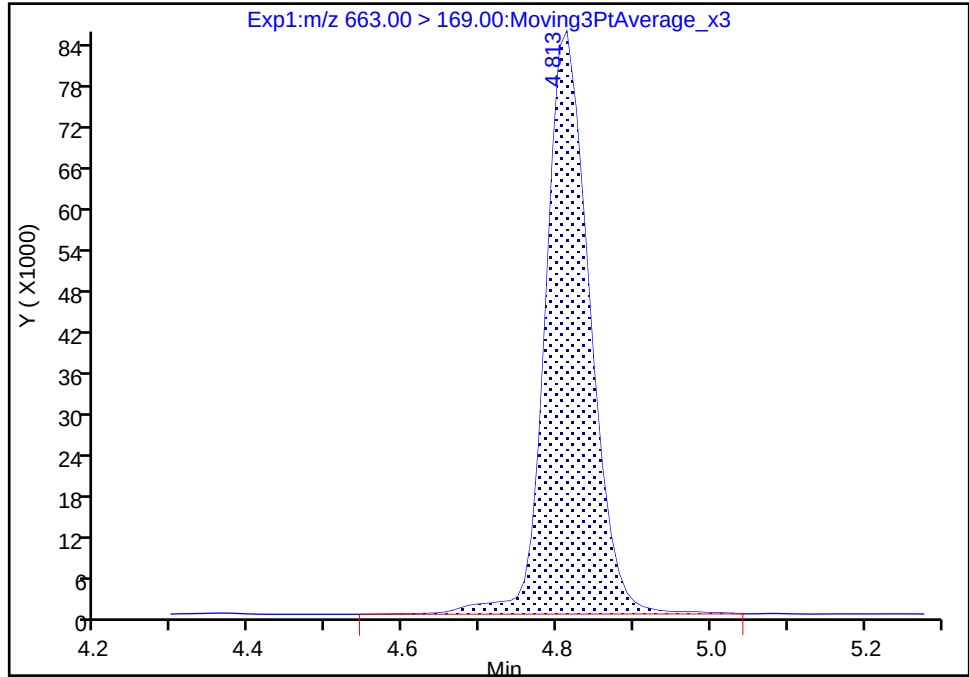
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

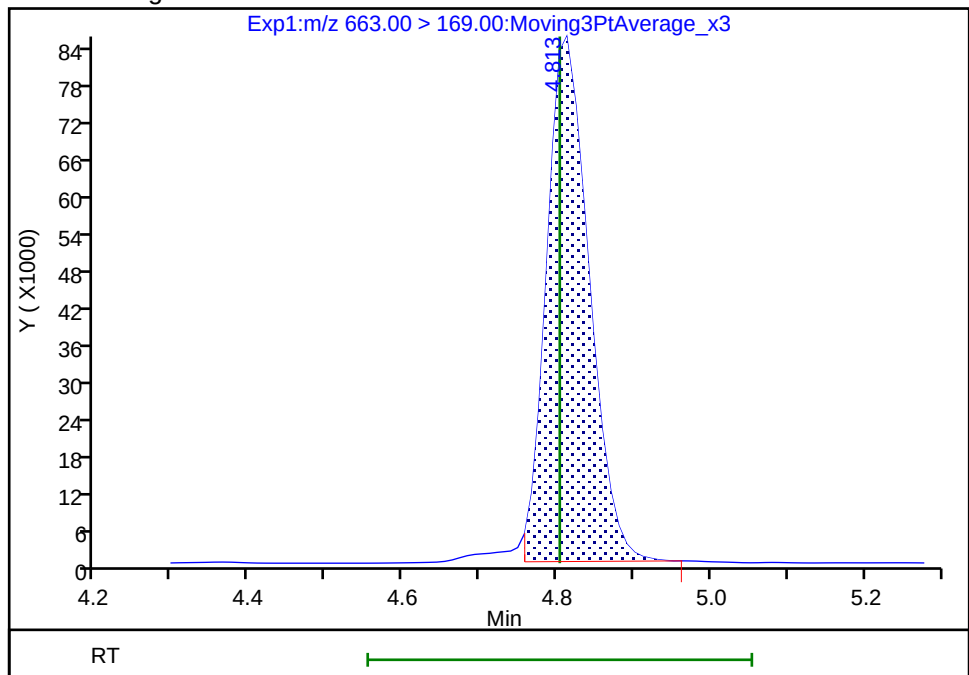
RT: 4.81
Area: 339583
Amount: 0.927951
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 325181
Amount: 0.911955
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 614 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

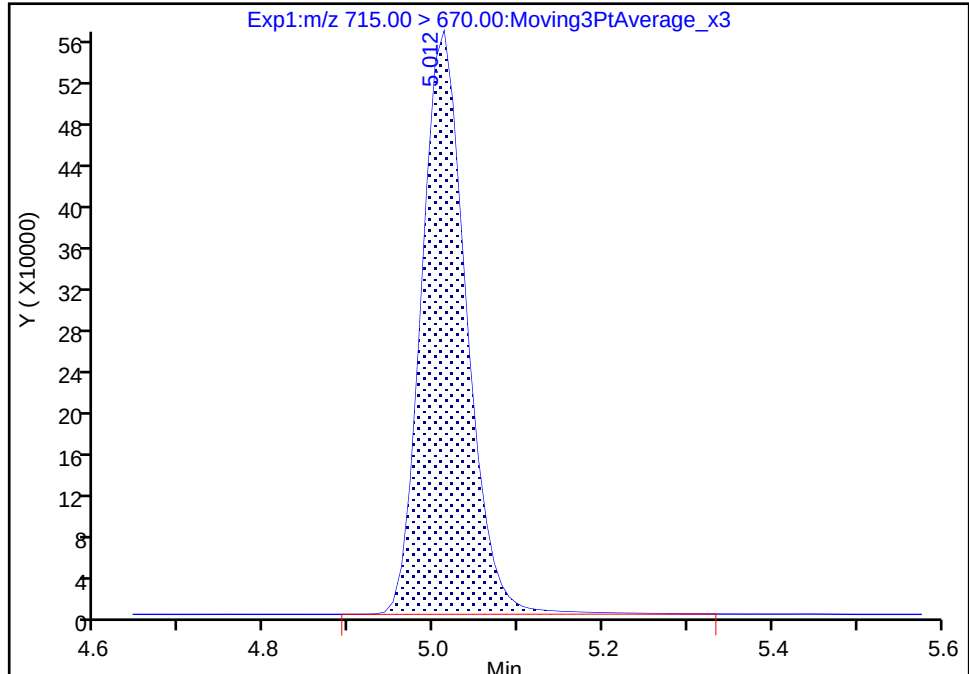
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

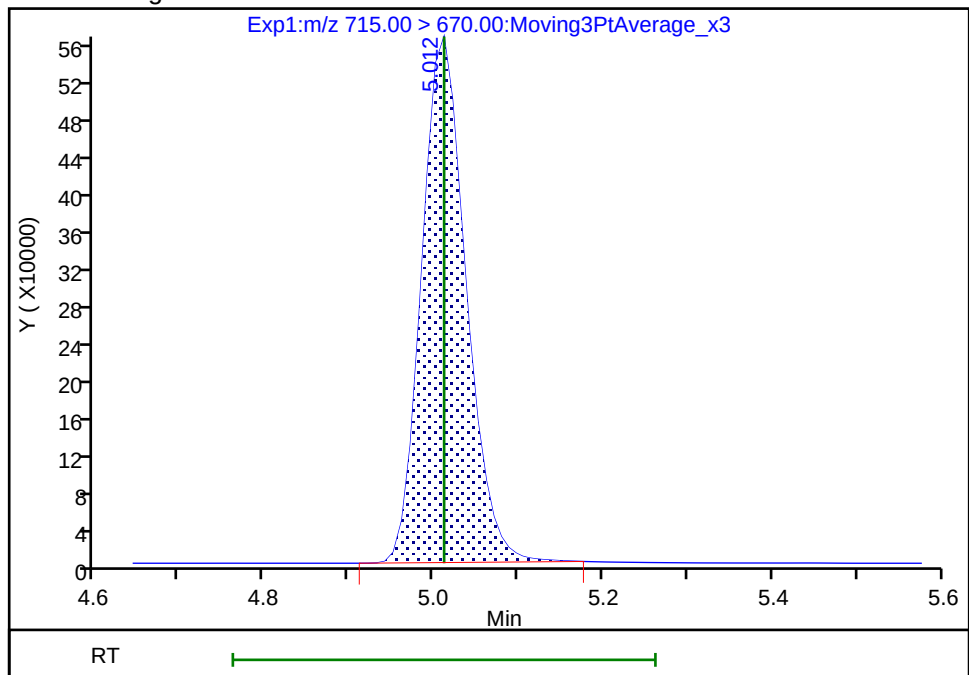
RT: 5.01
Area: 2079061
Amount: 1.082778
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 2059701
Amount: 1.072695
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

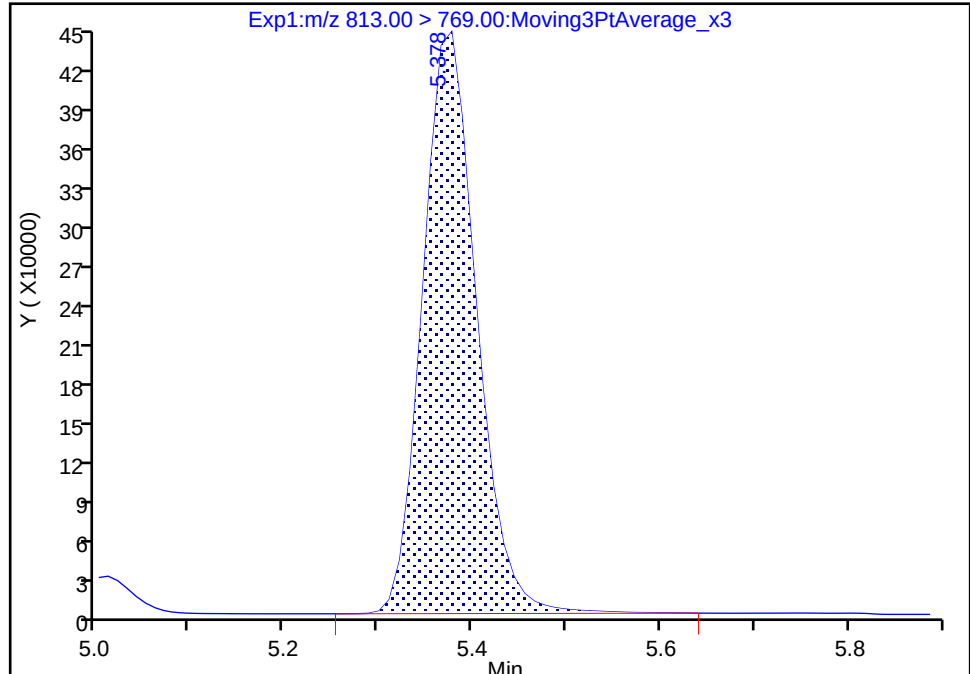
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

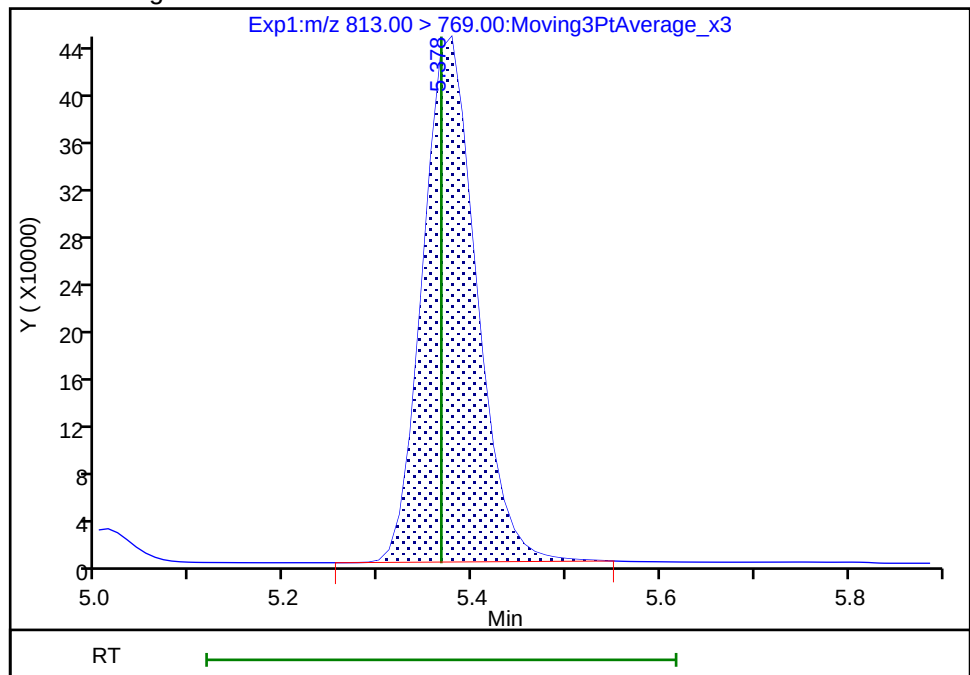
RT: 5.38
Area: 1762767
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 1751027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:32:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

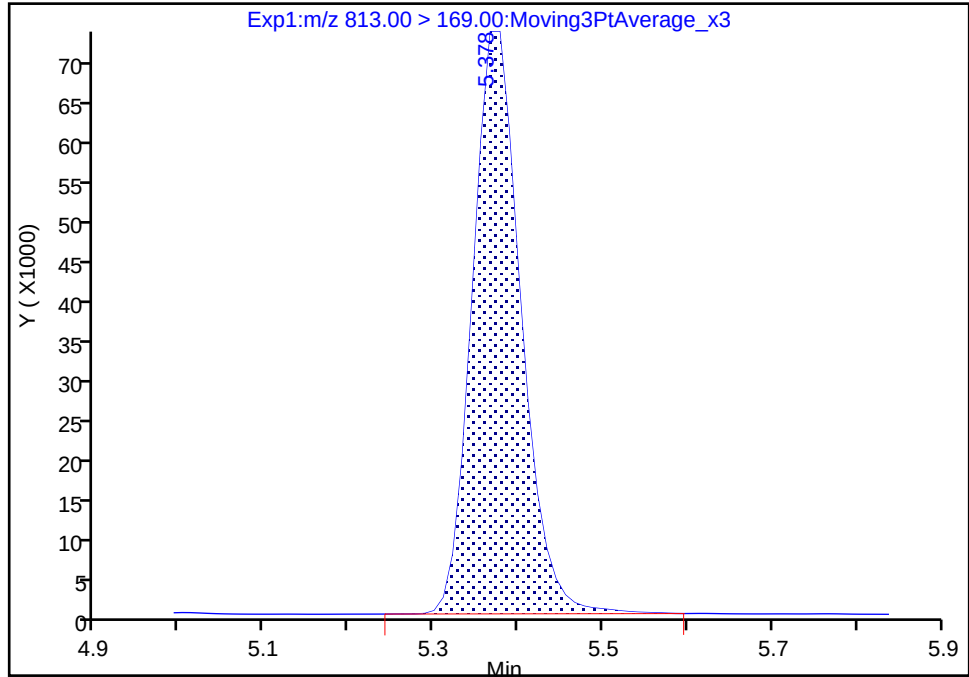
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

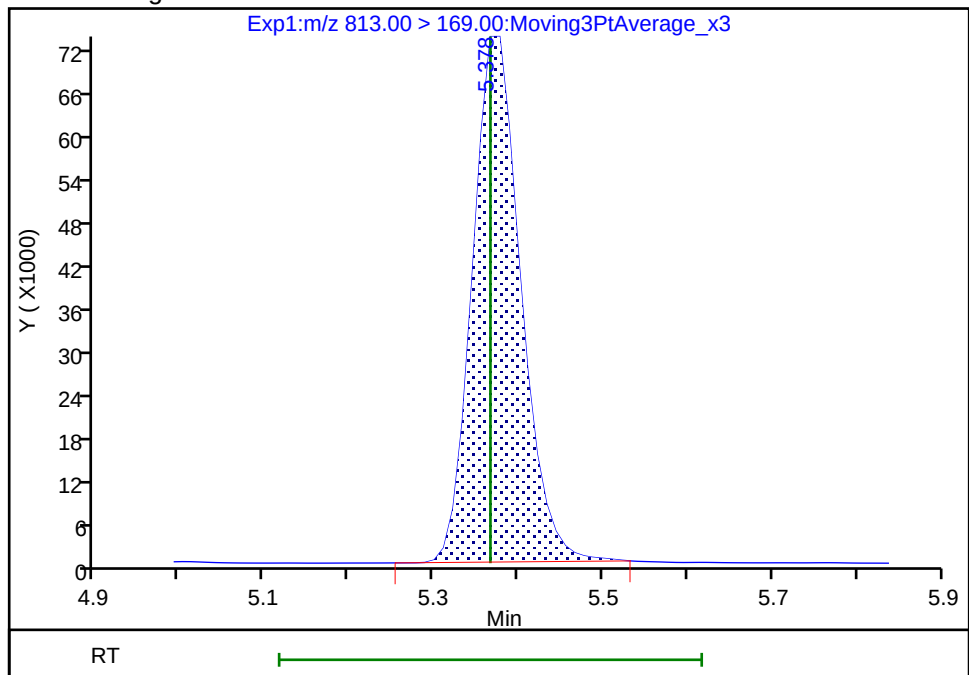
RT: 5.38
Area: 294445
Amount: 0.891091
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 292027
Amount: 0.885043
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

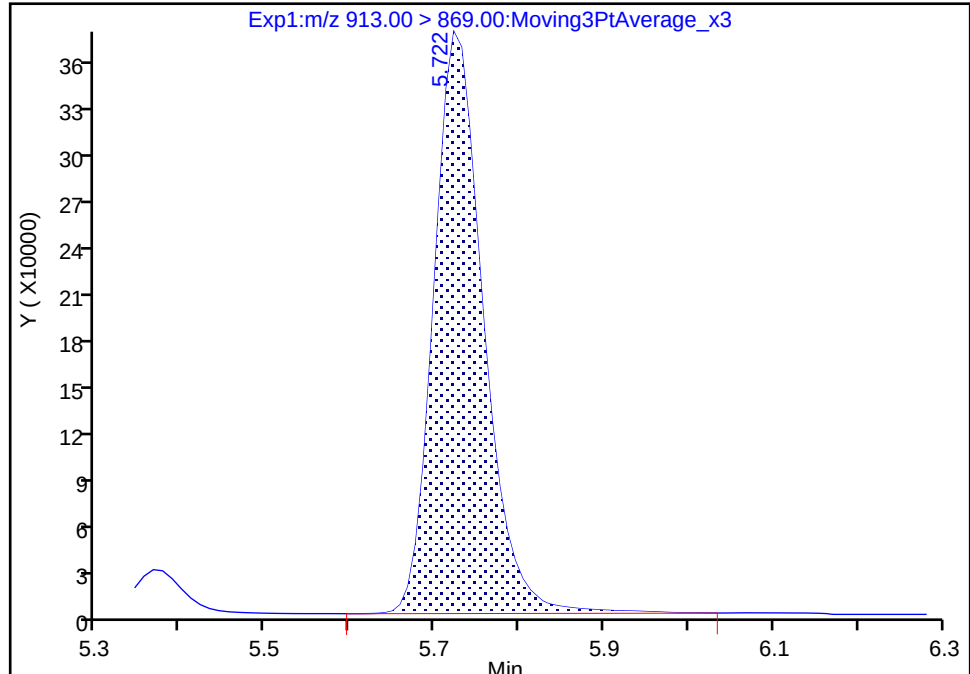
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

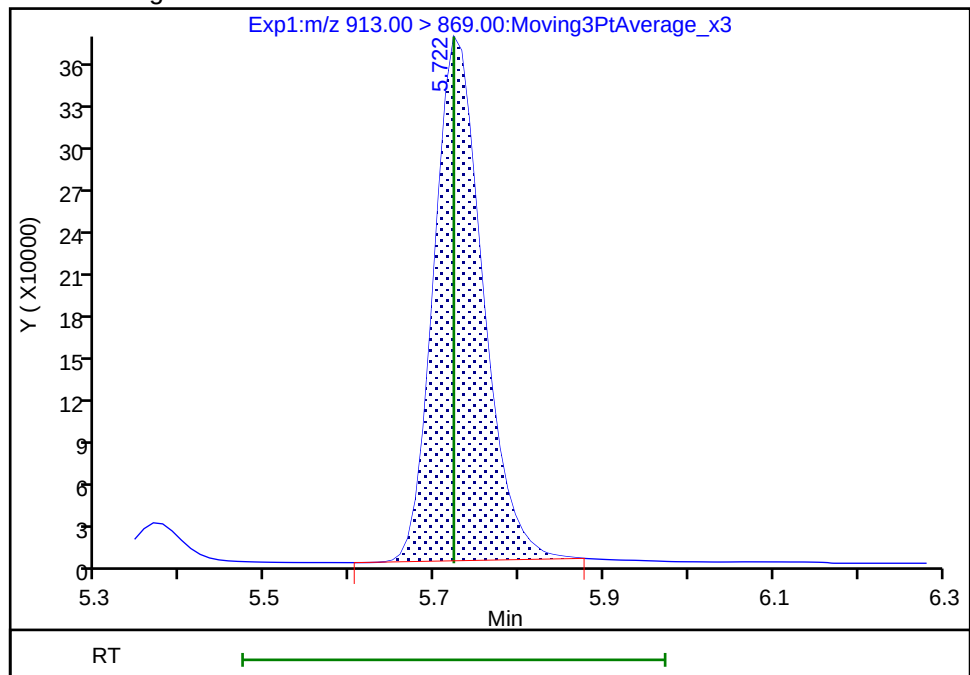
RT: 5.72
Area: 1522976
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 1490002
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

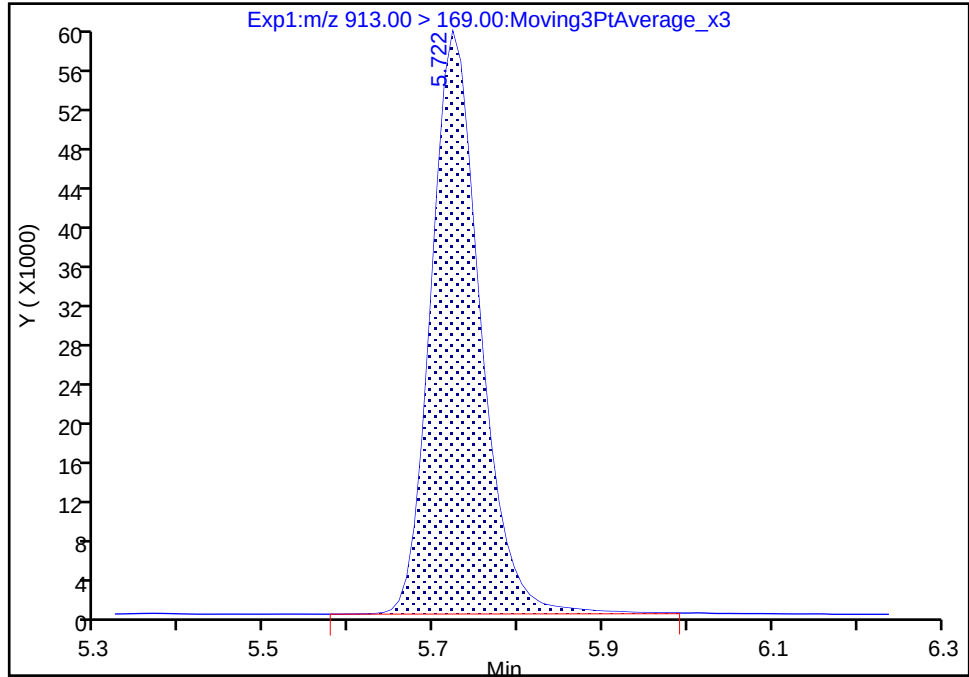
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL12.d
Injection Date: 18-Nov-2022 15:27:08 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

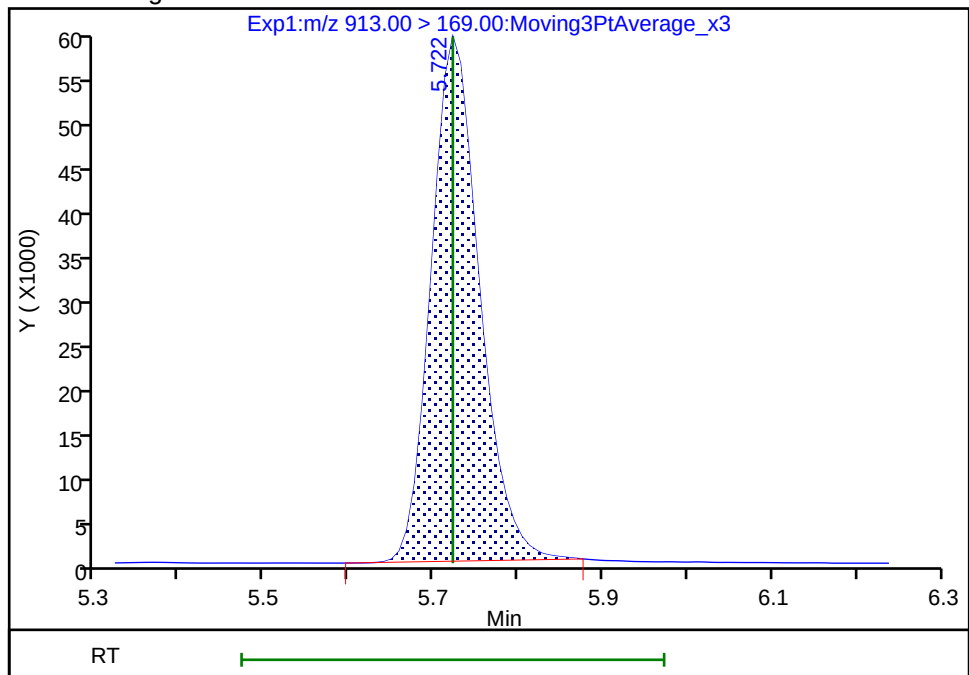
RT: 5.72
Area: 238468
Amount: 0.876013
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 233541
Amount: 0.857046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:33:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 619 of 1142

1/9/2023 1:31
PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-187177/5 Calibration Date: 12/30/2022 13:17

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	1.108		0.134	0.125	7.4	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.090	1.182		0.0542	0.0500	8.5	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.149		0.0444	0.0442	0.4	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	3.085		0.0468	0.0467	0.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.090	1.089		0.0500	0.0500	-0.0	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.357		0.0476	0.0469	1.6	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	1.090		0.103	0.100	3.2	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	1.068		0.0490	0.0500	-1.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.156		0.0466	0.0455	2.5	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.137		0.0439	0.0471	-6.7	50.0
6:2 FTS	L1ID		2.299		0.117	0.119	-1.2	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.416		0.0483	0.0476	1.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.107		0.0518	0.0500	3.5	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.319		0.0503	0.0464	8.5	50.0
Perfluorononanoic acid (PFNA)	AveID	1.037	1.011		0.0487	0.0500	-2.5	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.860		0.0478	0.0466	2.5	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.9403		0.0492	0.0480	2.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.084	1.015		0.0468	0.0500	-6.4	50.0
8:2 FTS	AveID	1.617	1.960		0.0581	0.0479	21.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	1.019		0.0488	0.0500	-2.5	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8915		0.118	0.125	-5.7	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6494		0.0432	0.0482	-10.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	1.061		0.0526	0.0500	5.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.9386		0.131	0.125	4.8	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.502		0.0493	0.0471	4.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.152		0.0544	0.0500	8.7	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.034		0.0513	0.0482	6.4	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2898		0.0457	0.0484	-5.5	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-187177/5 Calibration Date: 12/30/2022 13:17
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221230A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	1.145		0.0565	0.0500	13.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1320		0.0482	0.0500	-3.6	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.077		0.0415	0.0500	-17.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8381		0.0509	0.0500	1.8	50.0
13C4 PFBA	Ave	1.122	0.9858		1.10	1.25	-12.1	
13C5 PFPeA	Ave	0.8543	0.7875		1.15	1.25	-7.8	
13C3 PFBS	Ave	0.9281	0.9170		1.15	1.16	-1.2	
M2-4:2 FTS	Ave	0.0820	0.0826		1.18	1.17	0.7	
13C2 PFHxA	Ave	0.8951	0.8516		1.19	1.25	-4.9	
13C3 HFPO-DA	Ave	0.1580	0.1476		1.17	1.25	-6.5	
13C4 PFHpA	Ave	0.9206	0.9054		1.23	1.25	-1.6	
18O2 PFHxS	Ave	0.6761	0.6997		1.22	1.18	3.5	
M2-6:2 FTS	Ave	0.1134	0.1244		1.30	1.19	9.7	
13C4 PFOA	Ave	1.035	1.038		1.25	1.25	0.3	
13C4 PFOS	Ave	0.4588	0.4776		1.24	1.20	4.1	
13C5 PFNA	Ave	1.006	1.056		1.31	1.25	5.0	
13C2 PFDA	Ave	1.025	1.155		1.41	1.25	12.7	
M2-8:2 FTS	Ave	0.1387	0.1487		1.28	1.20	7.2	
13C8 FOSA	Ave	0.8403	0.8556		1.27	1.25	1.8	
d3-NMeFOSAA	Ave	0.2087	0.2040		1.22	1.25	-2.2	
13C2 PFUnA	Ave	0.9385	0.9767		1.30	1.25	4.1	
d5-NEtFOSAA	Ave	0.2055	0.2061		1.25	1.25	0.3	
13C2 PFDoA	Ave	0.9562	0.9895		1.29	1.25	3.5	
13C2 PFTeDA	Ave	0.8270	0.9505		1.44	1.25	14.9	
13C2 PFHxDA	Ave	1.022	1.188		1.45	1.25	16.2	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 30-Dec-2022 13:17:39 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0053865-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 30-Dec-2022 15:39:29

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	2.076	2.076	0.0	0.602	2698913	1.10		87.9	10302	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	298978	0.1343		107	23.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2156012	1.15		92.2	3542	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	101949	0.0542		108	2.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2334669	1.15		98.8	202254	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	101985	0.0444	Target=2.09	100	129	M
298.90 > 99.00	2.413	2.400	0.013	1.006	51576		1.98(1.04-3.13)		33.2	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.701	2.689	0.012	1.000	26047	0.0468		100	277	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.701	2.689	0.012	0.784	211093	1.18		101	166	
D 7 13C2 PFHxA										
315.00 > 270.00	2.737	2.725	0.012	0.794	2331303	1.19		95.1	3976	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.737	2.725	0.012	1.000	101587	0.0500	Target=14.25	100.0	15.5	M
313.00 > 119.00	2.737	2.725	0.012	1.000	6816		14.90(7.12-21.37)		10.7	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.737	2.737	0.0	0.883	97513	0.0476	Target=3.04	102	112	M
349.00 > 99.00	2.737	2.737	0.0	0.883	32642		2.99(1.52-4.56)		67.1	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.847	2.835	0.012	1.004	35244	0.1032		103	231	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.834	2.835	-0.001	0.822	404196	1.17		93.5	1424	
D 11 18O2 PFHxS										
403.00 > 84.00	3.098	3.088	0.010	0.899	1812117	1.22		103	2618	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.098	3.088	0.010	1.000	80629	0.0466	Target=3.66	102	154	M
399.00 > 99.00	3.098	3.088	0.010	1.000	23941		3.37(1.83-5.49)		33.0	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.099	-0.001	0.899	2478662	1.23		98.4	4420	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.000	105847	0.0490	Target=3.97	98.1	19.1	M
363.00 > 169.00	3.098	3.099	-0.001	1.000	26457		4.00(1.98-5.95)		51.0	M
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	253074	0.0439	Target=3.16	93.3	382	
377.00 > 85.00	3.132	3.132	0.0	0.832	76375		3.31(1.58-4.73)		139	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.437	3.439	-0.002	0.997	323471	1.30		110	687	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.437	3.439	-0.002	1.000	74200	0.1171		98.8	70.6	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.437	3.439	-0.002	0.914	70527	0.0483	Target=5.14	101	245	
449.00 > 99.00	3.437	3.439	-0.002	0.914	12198		5.78(2.57-7.72)		72.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2842861	1.25		100	3530	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2737662	1.25			4174	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.455	3.448	0.007	1.003	125864	0.0518	Target=2.79	104	8.9	M
413.00 > 169.00	3.446	3.448	-0.002	1.000	46166		2.73(1.40-4.19)		37.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.762	3.764	-0.002	1.092	1250018	1.24		104	3771	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.762	3.764	-0.002	1.000	64037	0.0503	Target=5.11	108	55.1	M
499.00 > 99.00	3.762	3.764	-0.002	1.000	13245		4.83(2.55-7.66)		67.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.781	3.783	-0.002	1.000	116915	0.0487	Target=8.55	97.5	28.7	
463.00 > 169.00	3.781	3.783	-0.002	1.000	14000		8.35(4.28-12.83)		84.9	
D 19 13C5 PFNA										
468.00 > 423.00	3.781	3.783	-0.002	1.097	2891329	1.31		105	4321	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.926	3.928	-0.002	1.044	139420	0.0478		102	641	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	47212	0.0492	Target=2.53	102	405	
549.00 > 99.00	4.050	4.050	0.0	1.076	19816		2.38(1.27-3.80)		159	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	3161476	1.41		113	4127	

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	4.081	4.081	0.0	1.000	128387	0.0468	Target=10.26	93.6	43.8	
513.00 > 169.00	4.081	4.081	0.0	1.000	12809		10.02(5.13-15.38)		39.0	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.187	389874	1.28		107	1675	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	30573	0.0581		121	352	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.149	4.150	-0.001	1.000	95466	0.0488		97.5	206	M
D 21 13C8 FOSA										
506.00 > 78.00	4.149	4.150	-0.001	1.204	2342261	1.27		102	2633	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.227	4.228	-0.001	1.227	558543	1.22		97.8	2085	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.227	4.228	-0.001	1.000	49793	0.1179		94.3	131	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.148	32742	0.0432	Target=2.51	89.6	329	M
599.00 > 99.00	4.319	4.331	-0.012	1.148	13153		2.49(1.25-3.76)		95.1	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2673986	1.30		104	5016	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	113467	0.0526	Target=9.88	105	54.1	M
563.00 > 169.00	4.353	4.353	0.0	1.000	9211		12.32(4.94-14.82)		101	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.364	4.365	-0.001	1.000	52946	0.1310		105	377	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.364	4.365	-0.001	1.266	564120	1.25		100	1259	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.184	221825	0.0493		105	870	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	124809	0.0544	Target=7.77	109	10.2	
613.00 > 169.00	4.579	4.591	-0.012	0.998	16130		7.74(3.89-11.66)		93.2	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2708785	1.29		103	4051	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.124	16230	0.0513		106	133	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.767	4.776	-0.009	1.267	14674	0.0457	Target=0.50	94.5	144	M
699.00 > 99.00	4.767	4.776	-0.009	1.267	27951		0.52(0.25-0.76)		417	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.044	124081	0.0565	Target=5.21	113	11.9	M
663.00 > 169.00	4.803	4.804	-0.001	1.046	22021		5.63(2.60-7.81)		115	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.001	5.012	-0.011	1.002	13735	0.0482	Target=0.89	96.4	118	
713.00 > 219.00	4.991	5.012	-0.021	1.000	15378		0.89(0.44-1.33)		154	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.991	5.012	-0.021	1.448	2602221	1.44		115	5216	

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	5.355	5.367	-0.012	1.002	140037	0.0415	Target=5.65	82.9	13.6	
813.00 > 169.00	5.355	5.367	-0.012	1.002	23265		6.02(2.82-8.47)		141	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.551	3251984	1.45		116	5420	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.695	5.722	-0.027	1.066	109014	0.0509	Target=6.24	102	12.8	M
913.00 > 169.00	5.695	5.722	-0.027	1.066	15573		7.00(3.12-9.36)		156	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00024

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

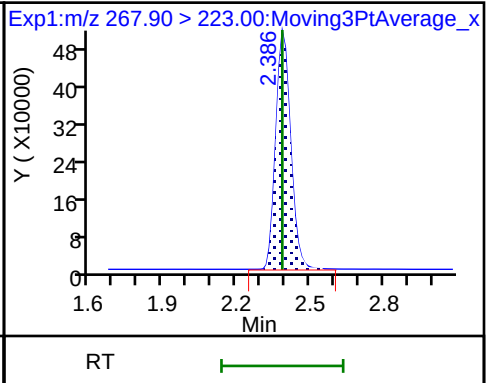
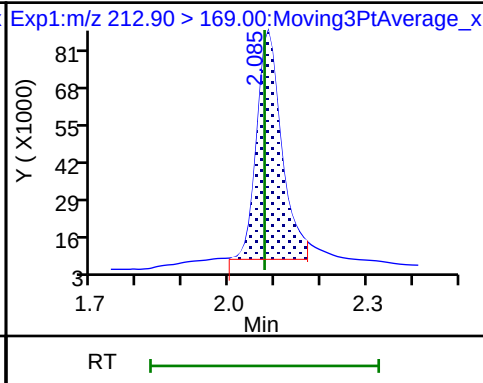
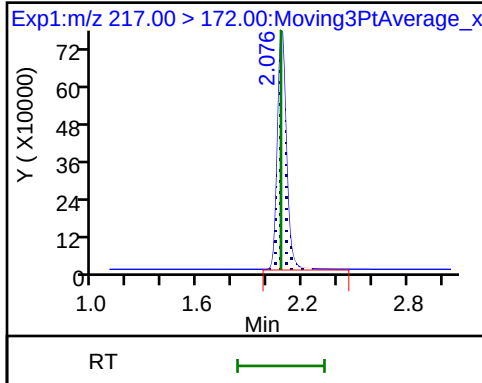
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

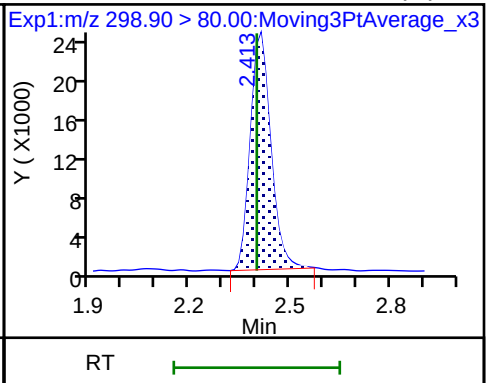
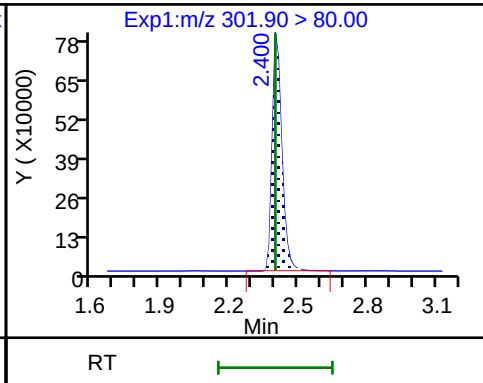
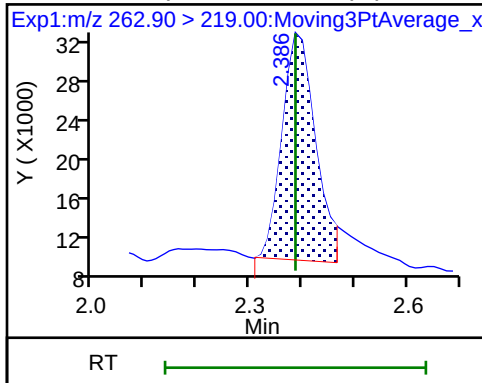
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

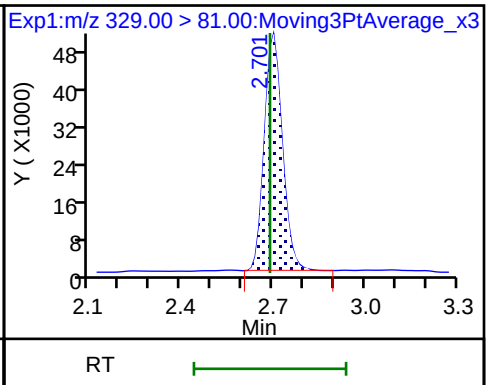
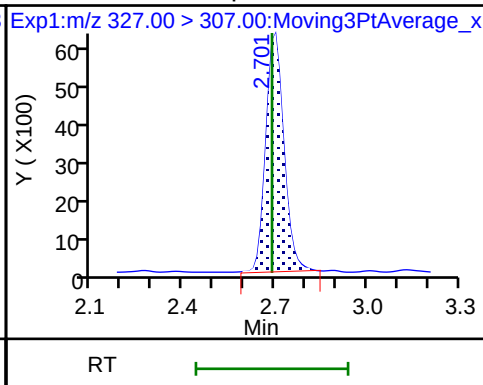
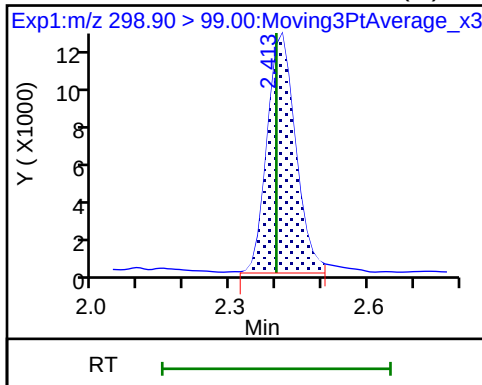
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

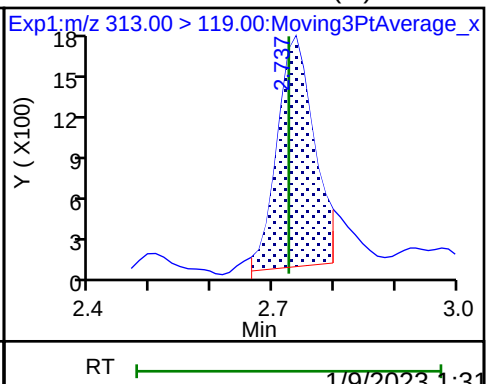
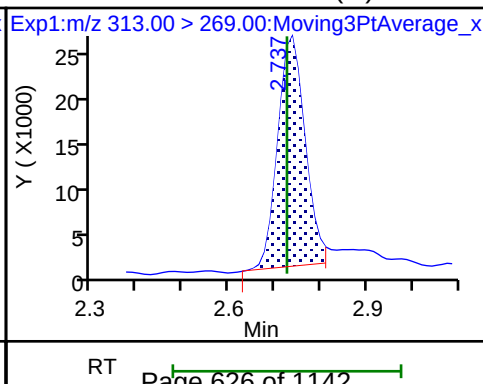
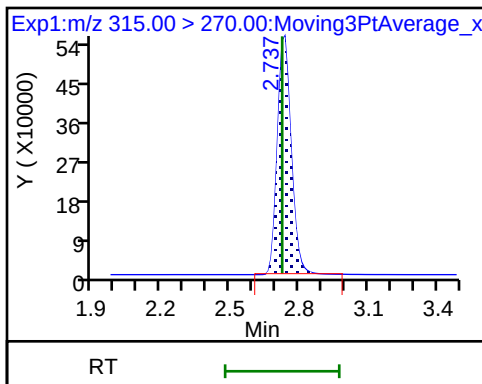
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



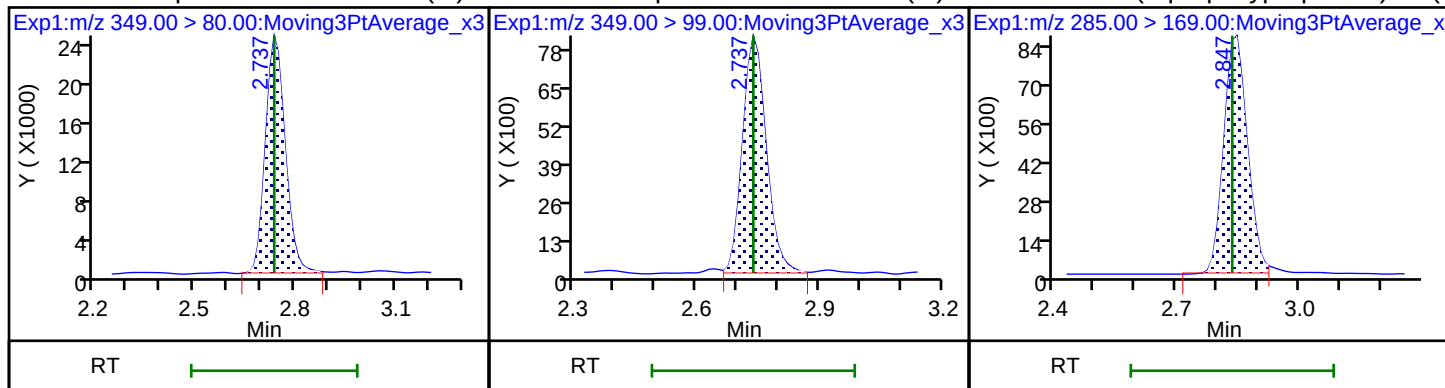
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)



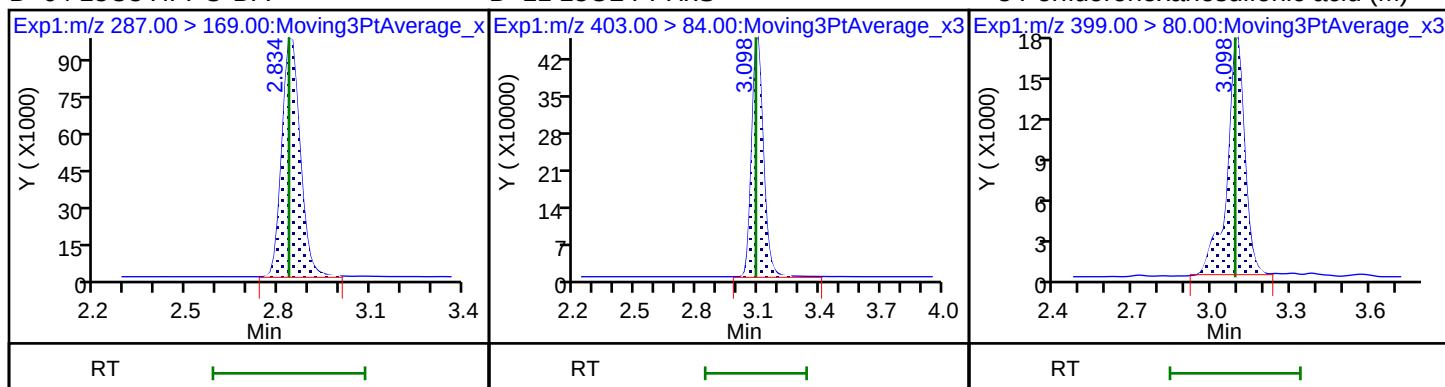
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

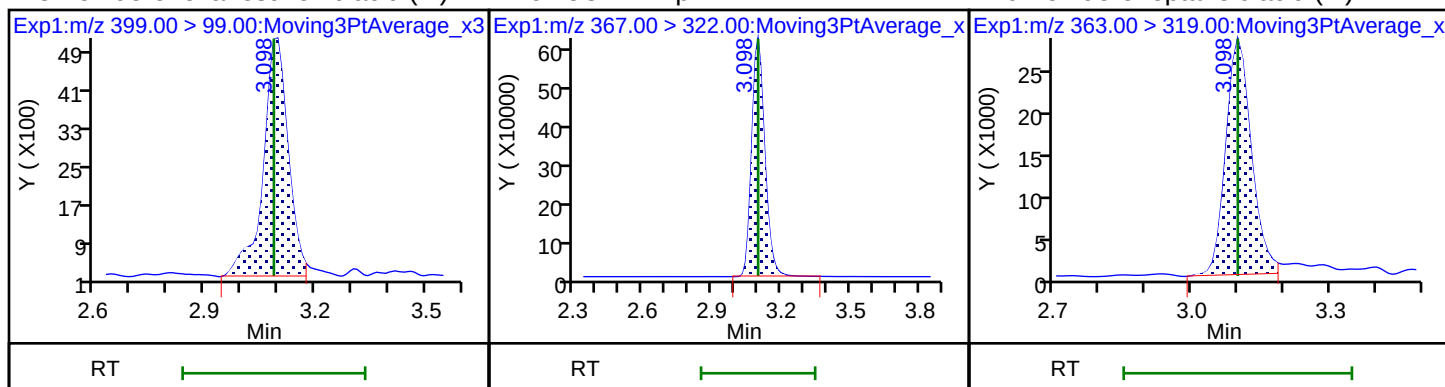
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

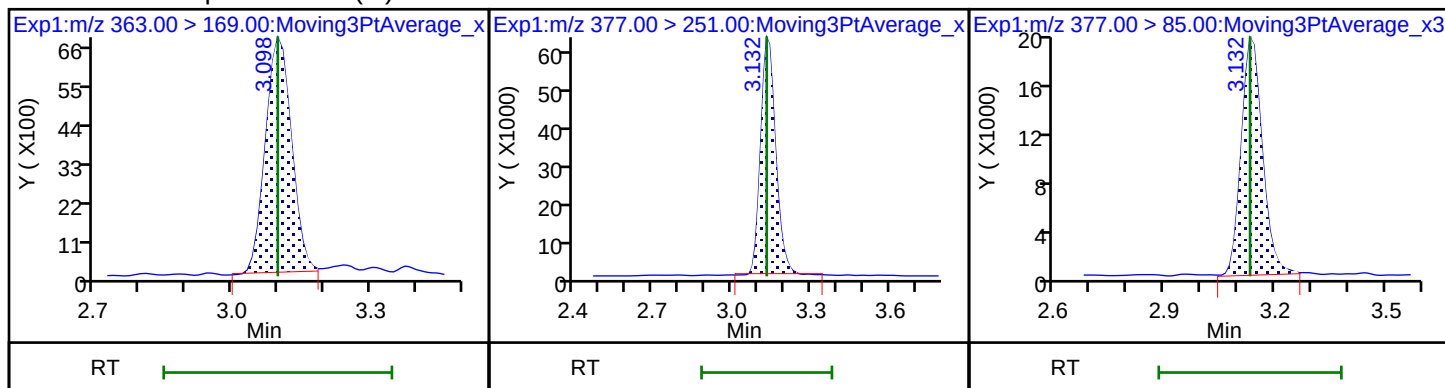
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

77 DONA

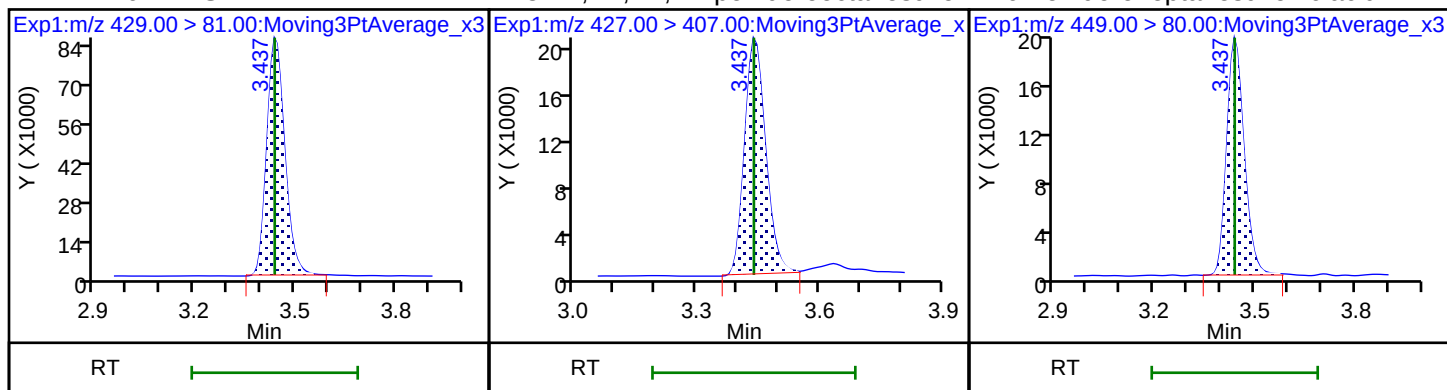
77 DONA



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

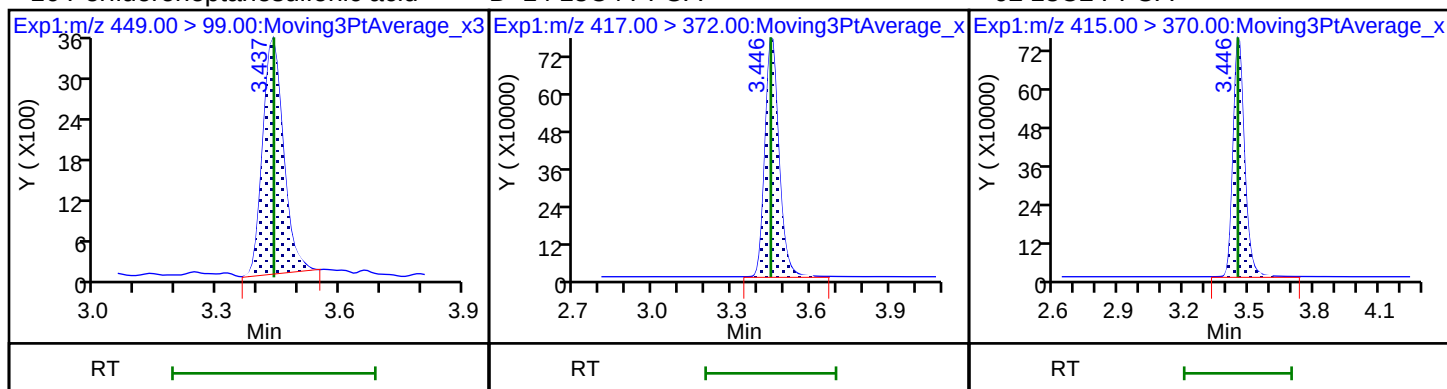
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

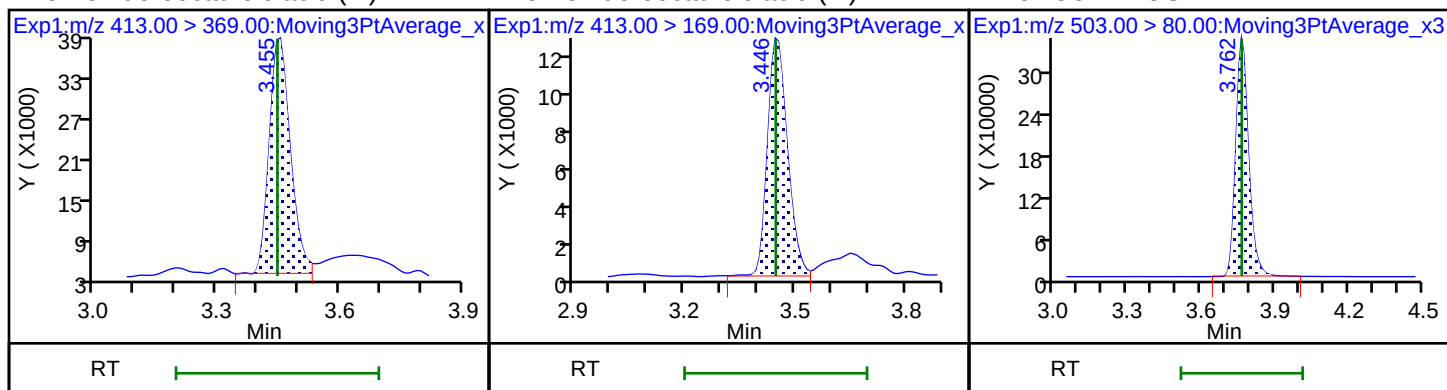
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

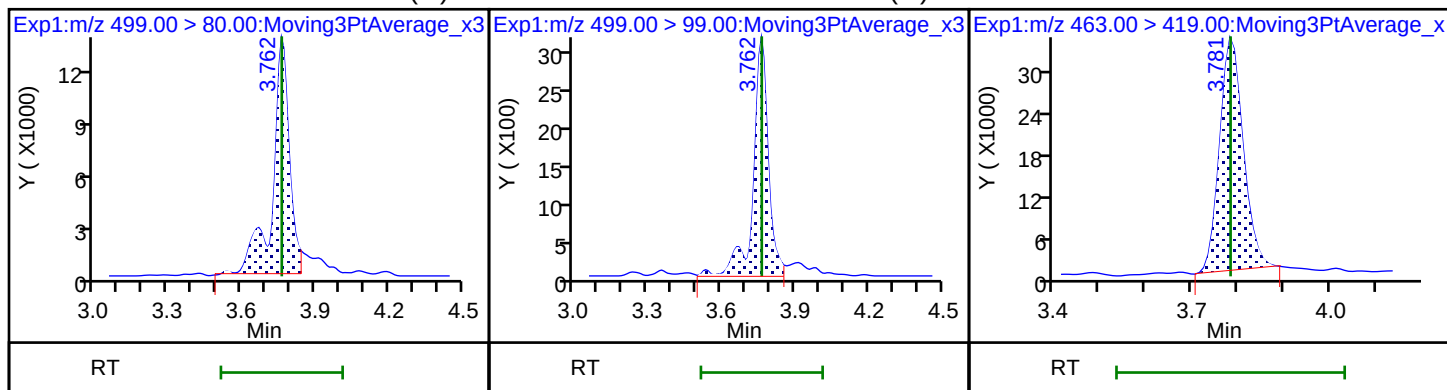
D 18 13C4 PFOS

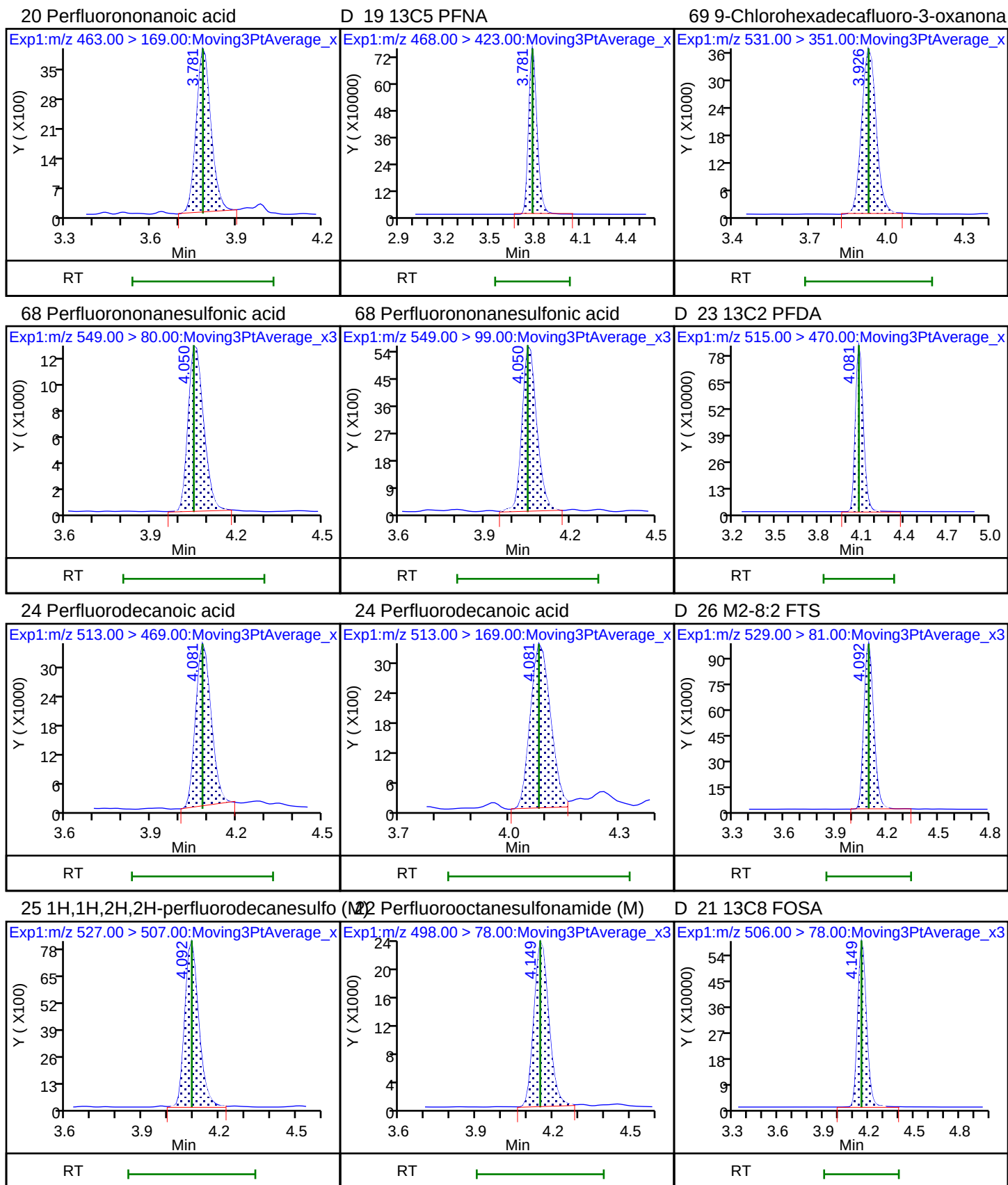


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

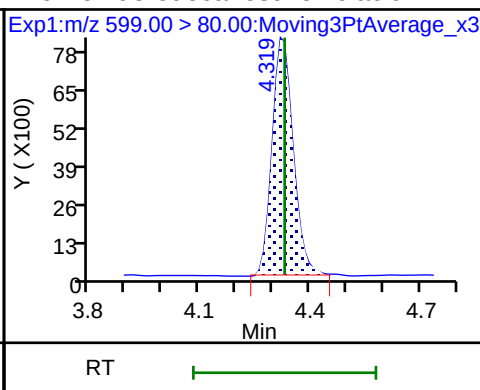
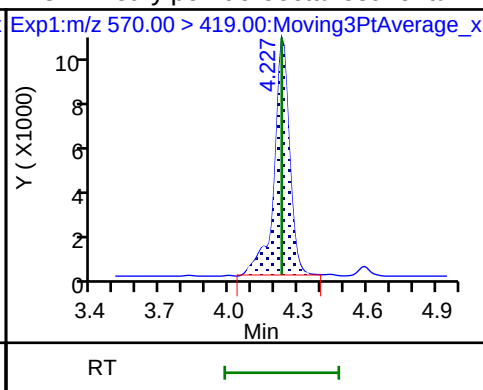
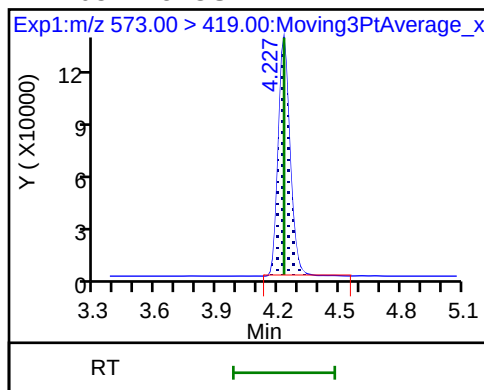




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

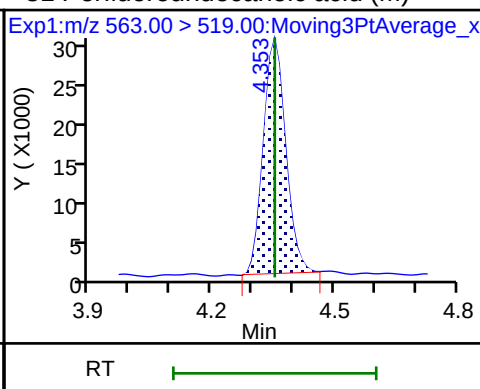
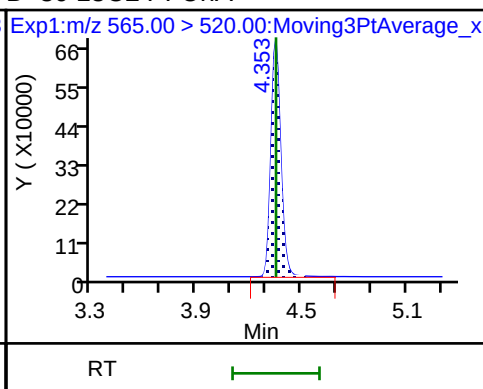
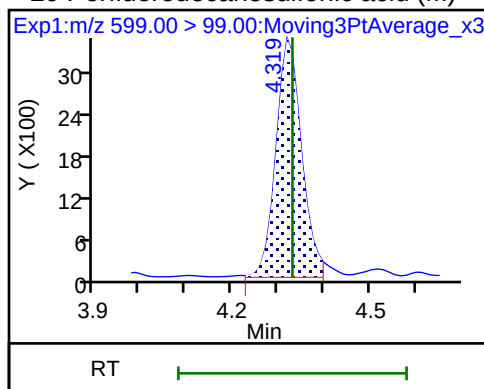
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

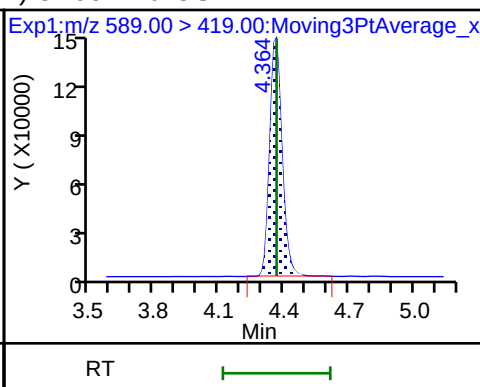
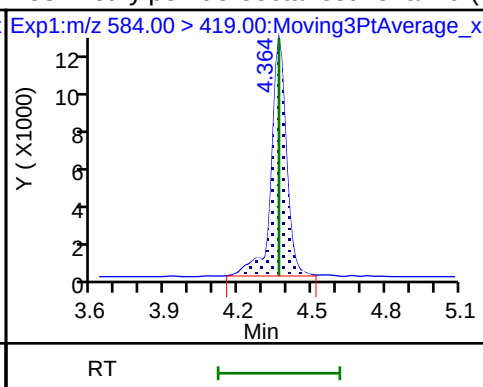
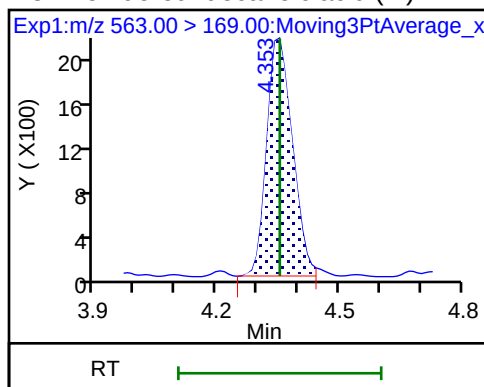
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

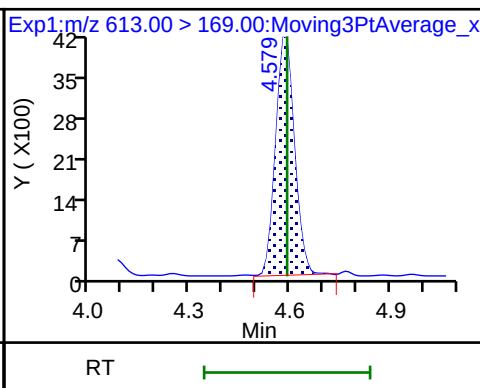
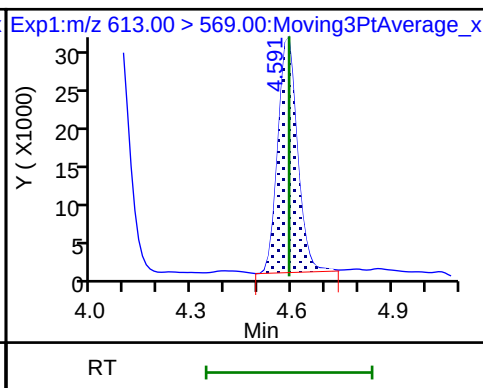
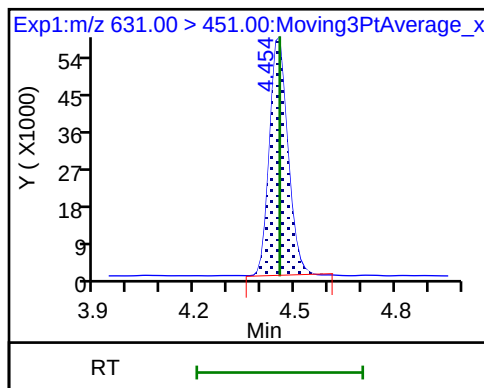
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

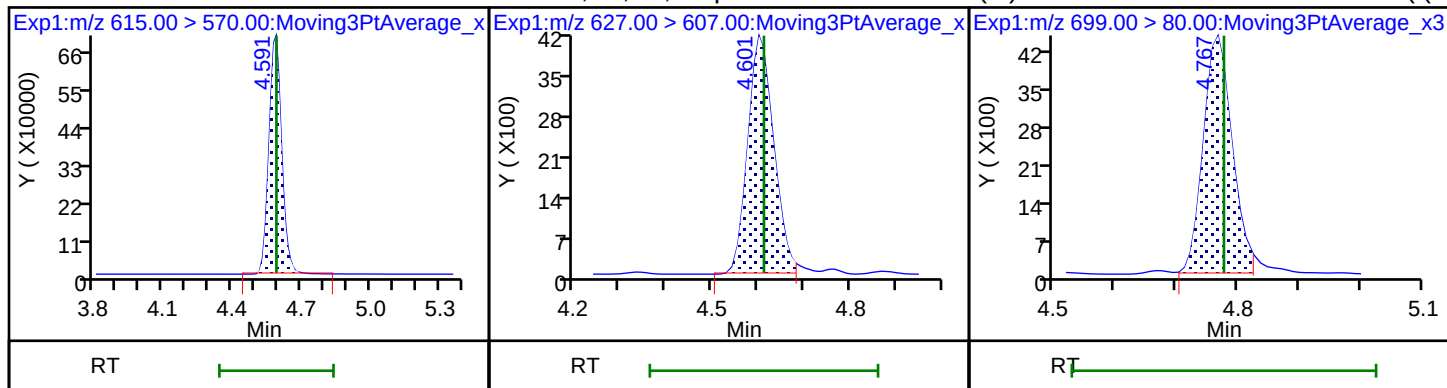
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



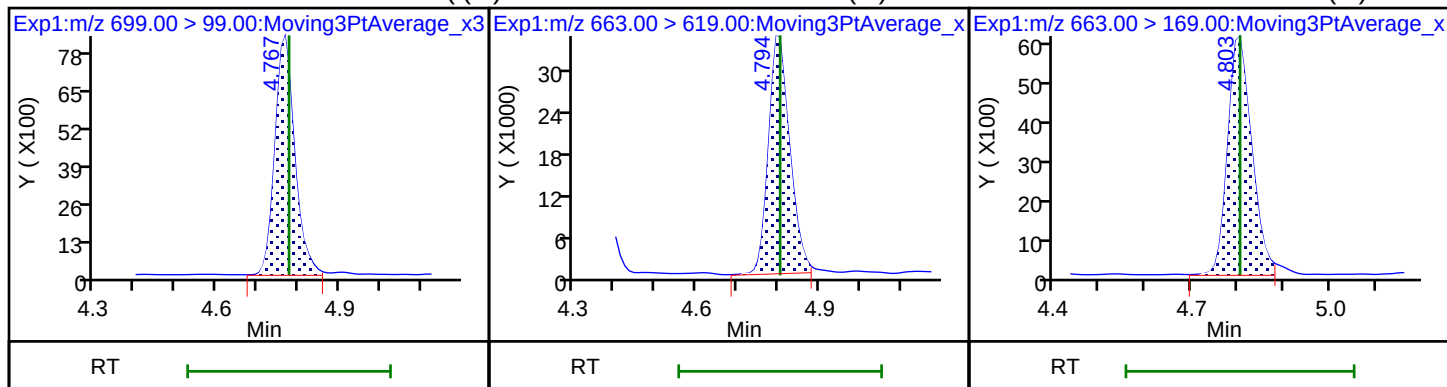
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

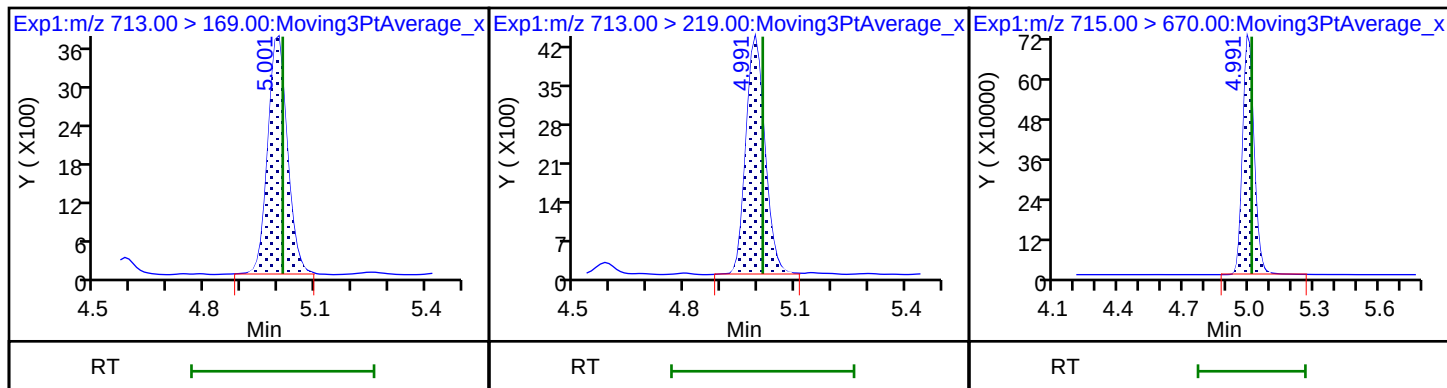
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

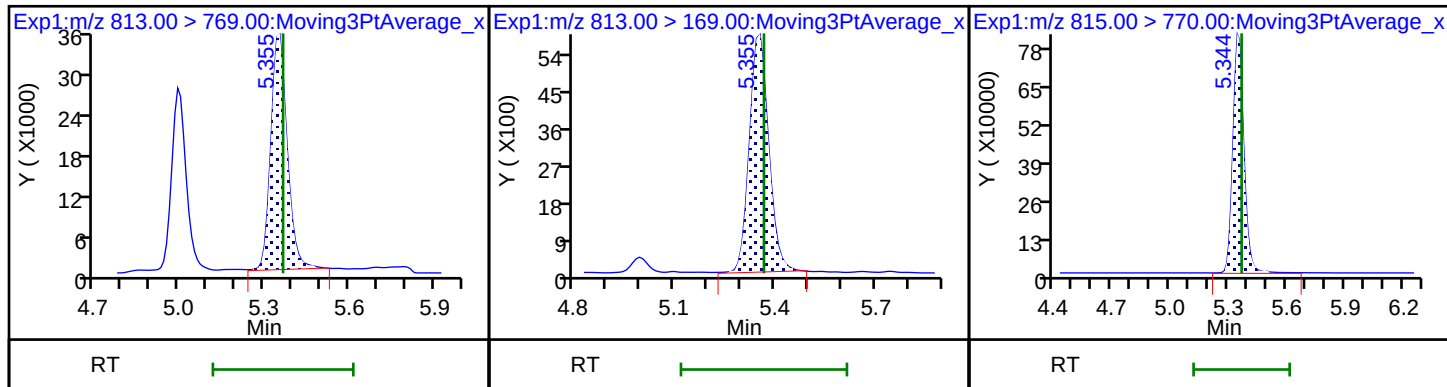
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

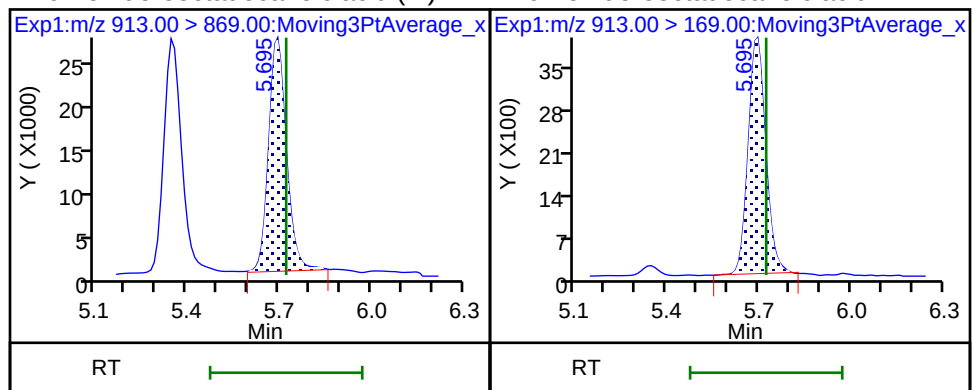
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

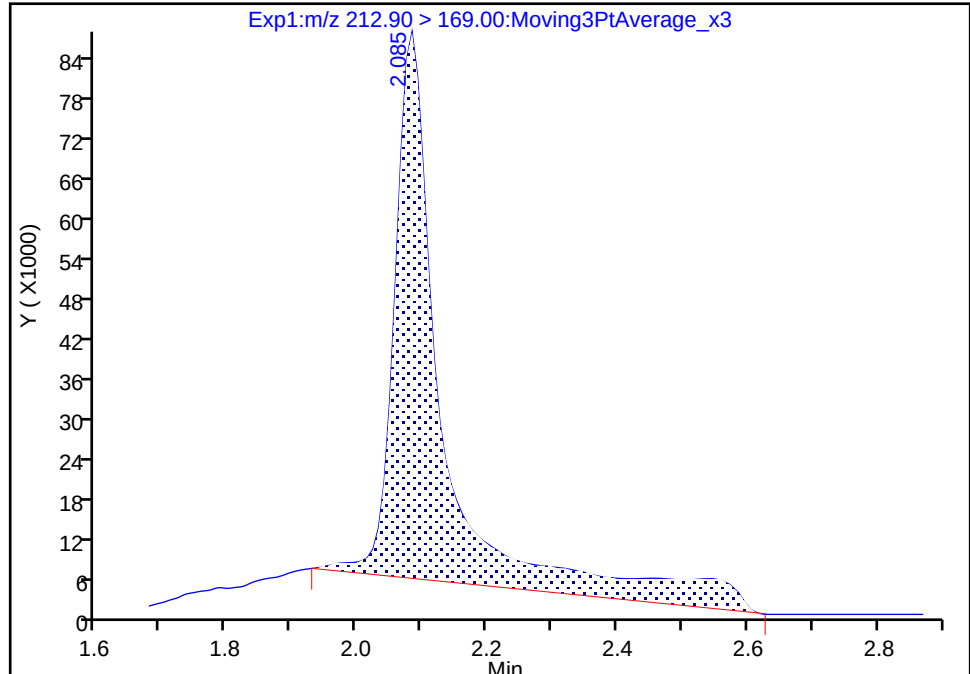
EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

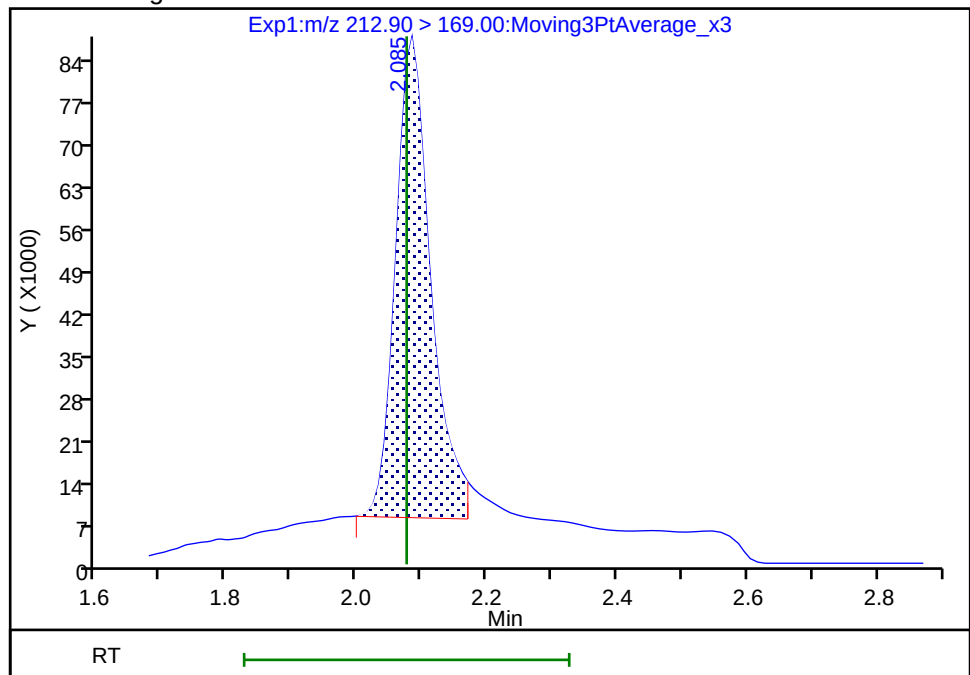
RT: 2.08
Area: 432596
Amount: 0.194295
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 298978
Amount: 0.134282
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:40:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

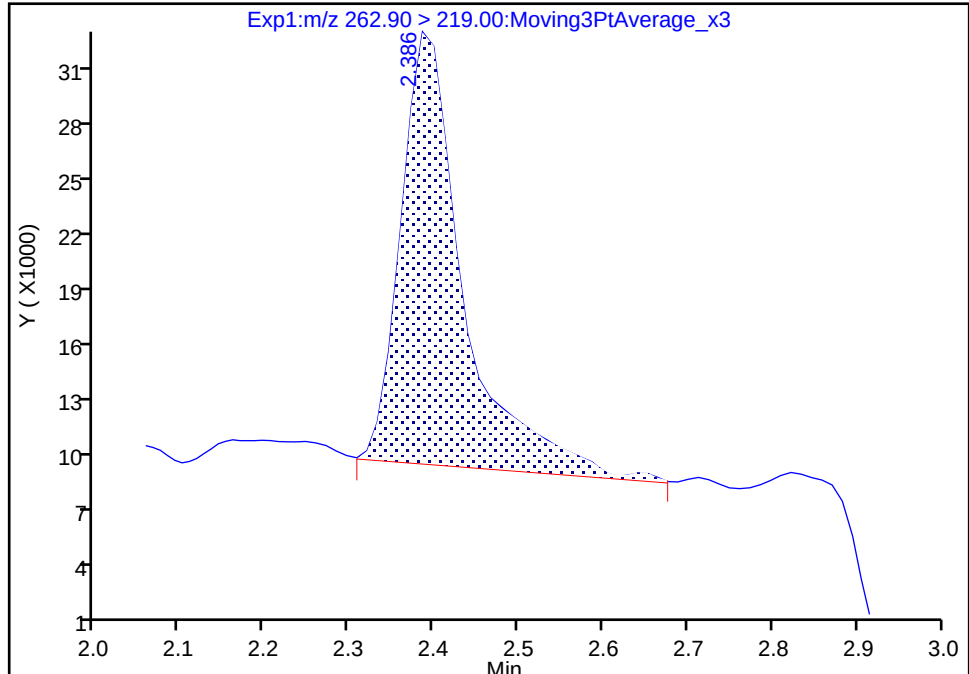
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

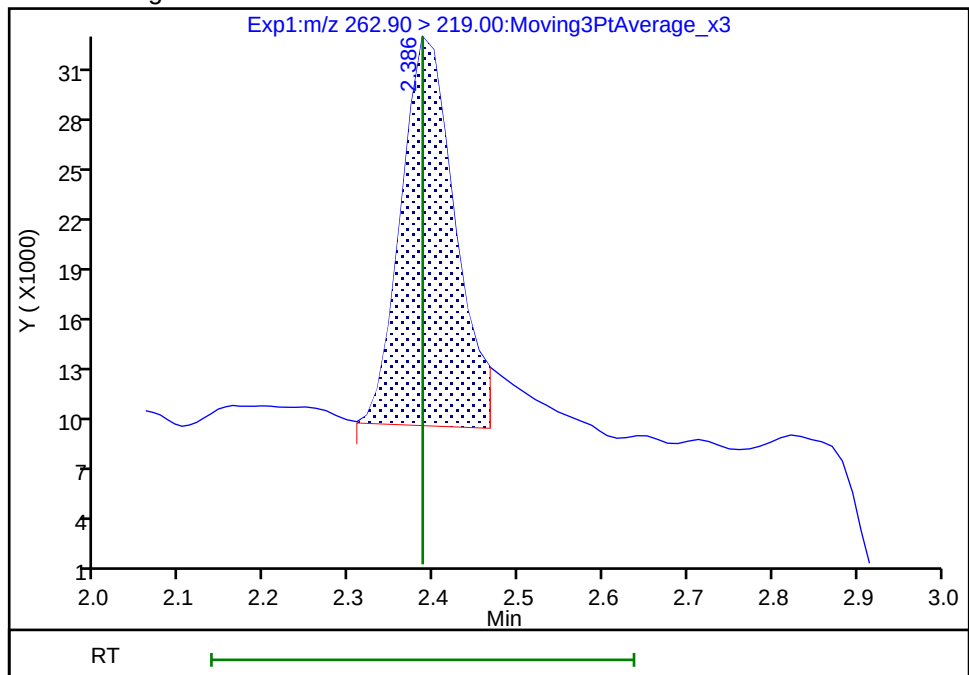
RT: 2.39
Area: 118585
Amount: 0.063086
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 101949
Amount: 0.054236
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

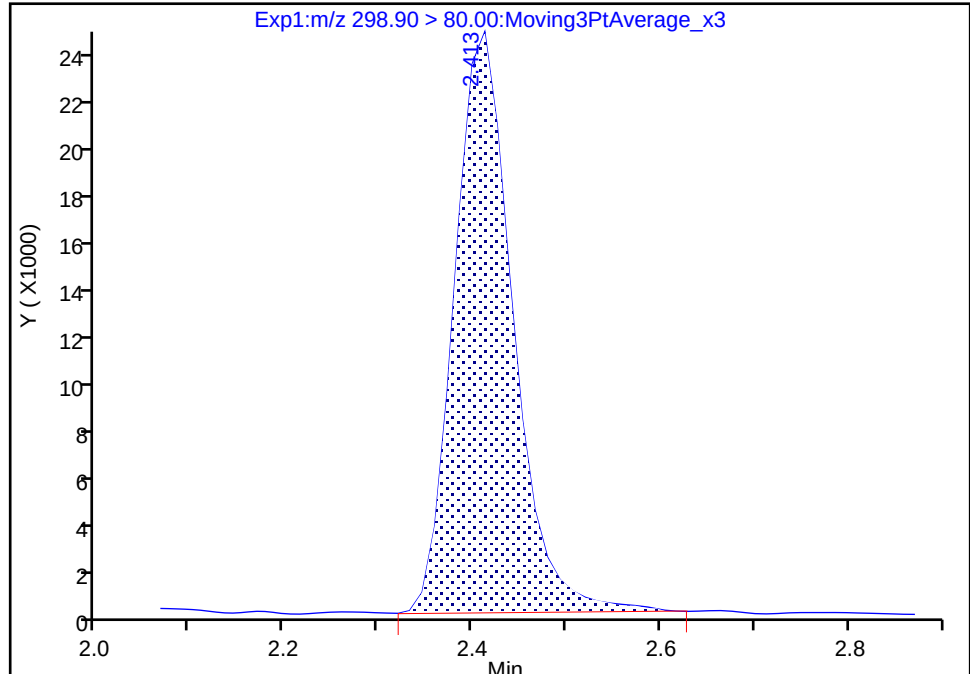
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

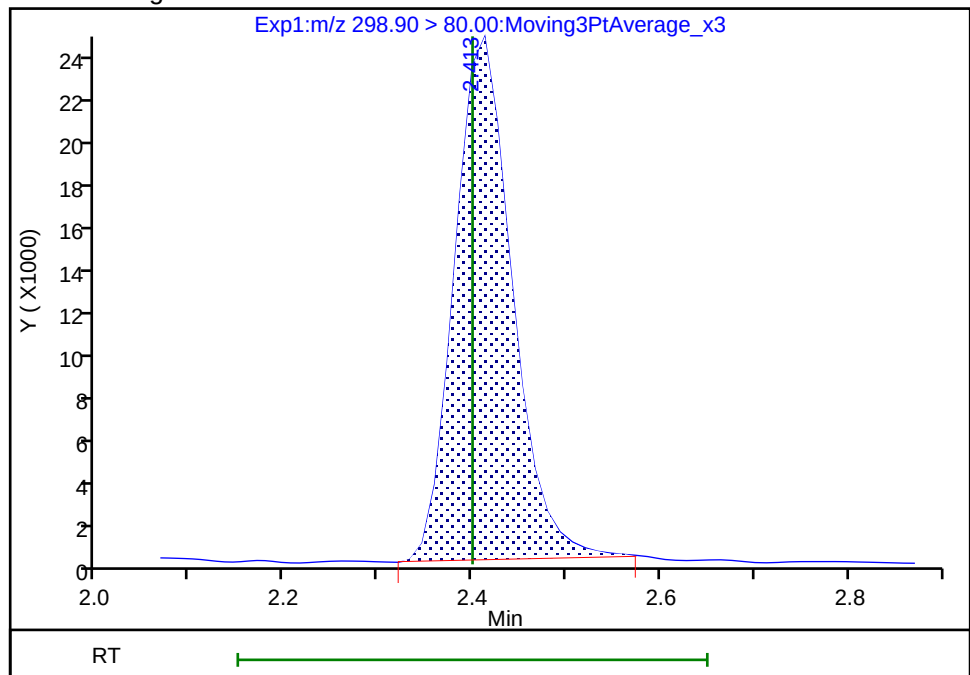
RT: 2.41
Area: 104277
Amount: 0.045384
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 101985
Amount: 0.044386
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

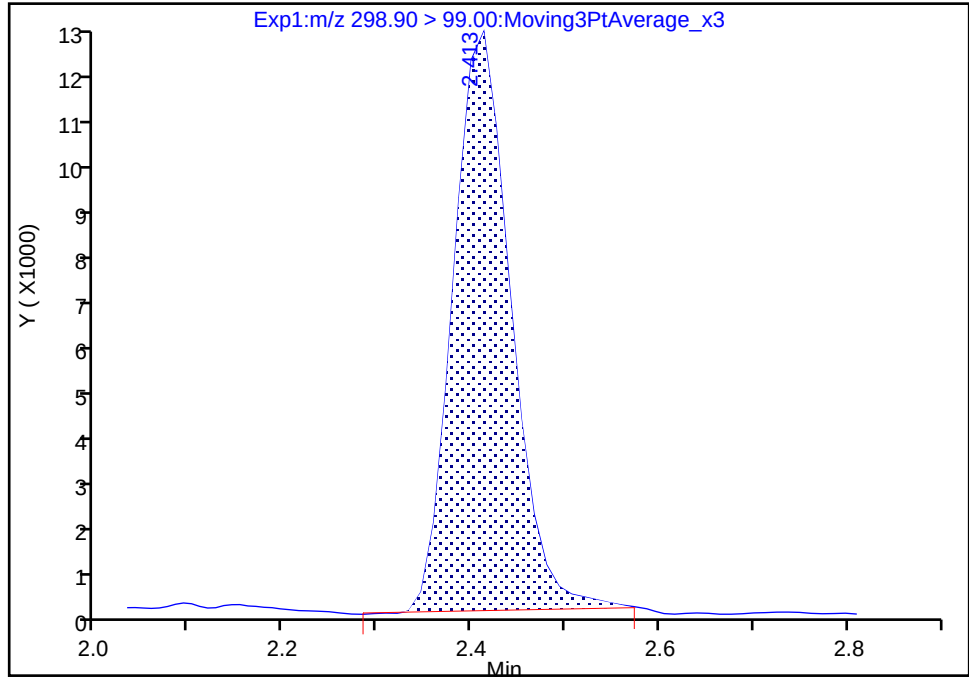
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

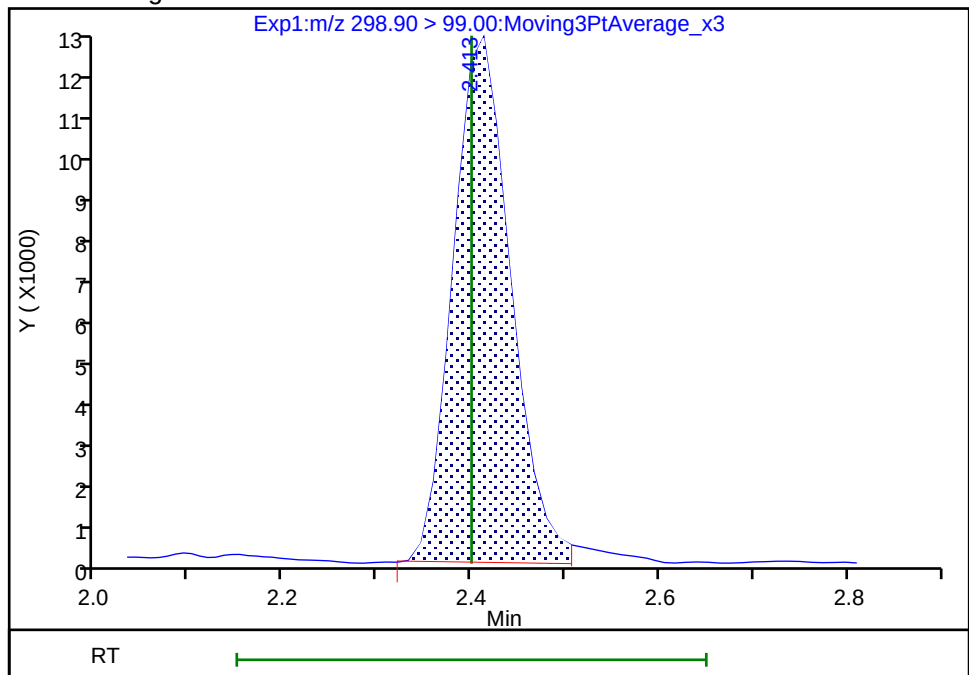
RT: 2.41
Area: 51574
Amount: 0.045384
Amount Units: ng/ml

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 51576
Amount: 0.044386
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 08:41:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 636 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

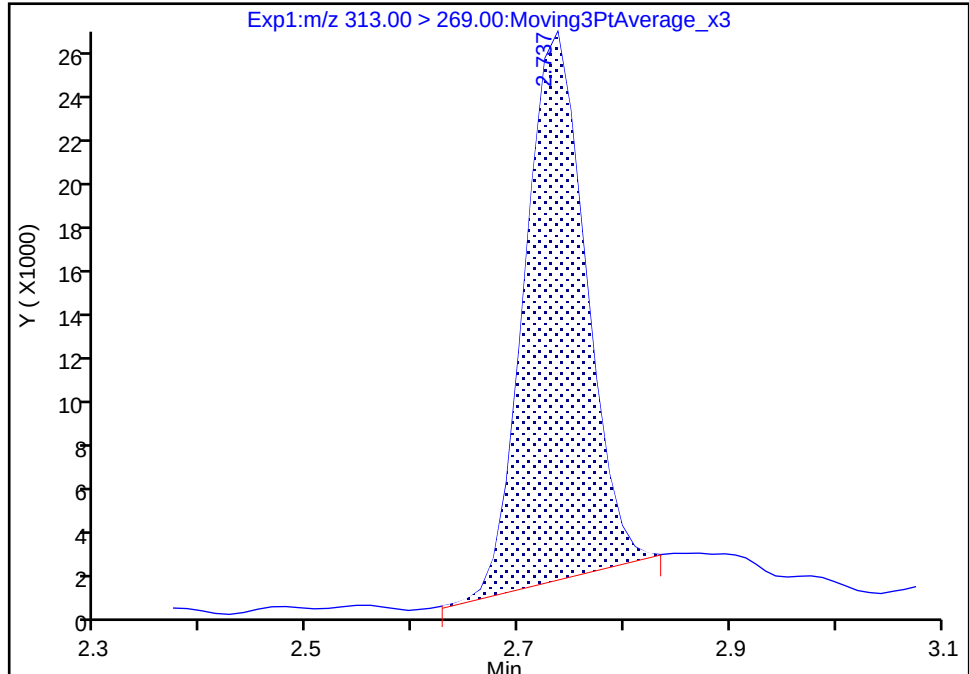
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

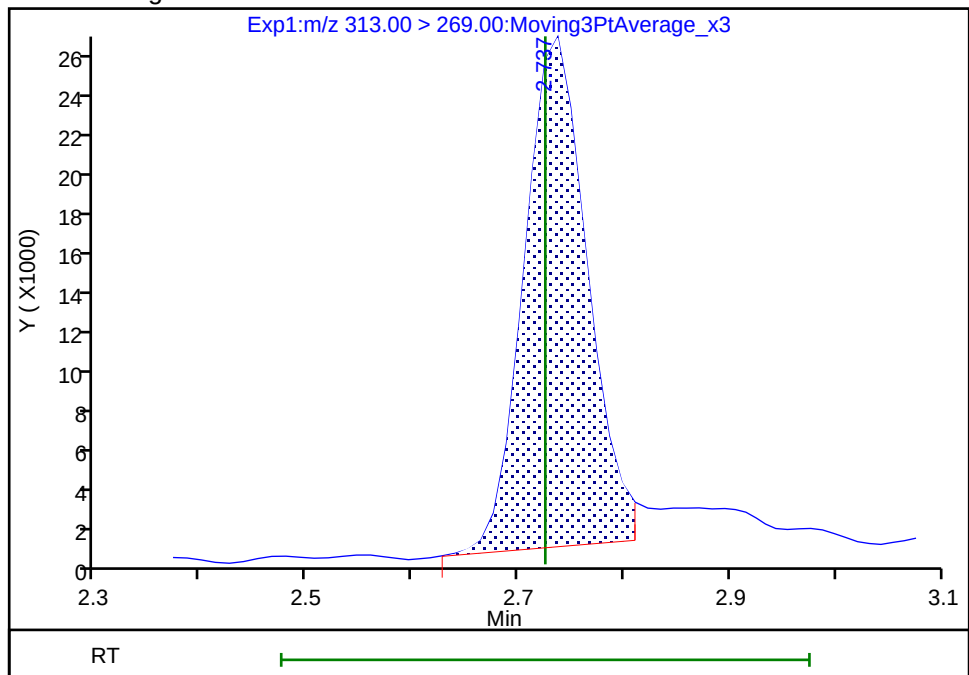
RT: 2.74
Area: 95912
Amount: 0.047197
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 101587
Amount: 0.049989
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

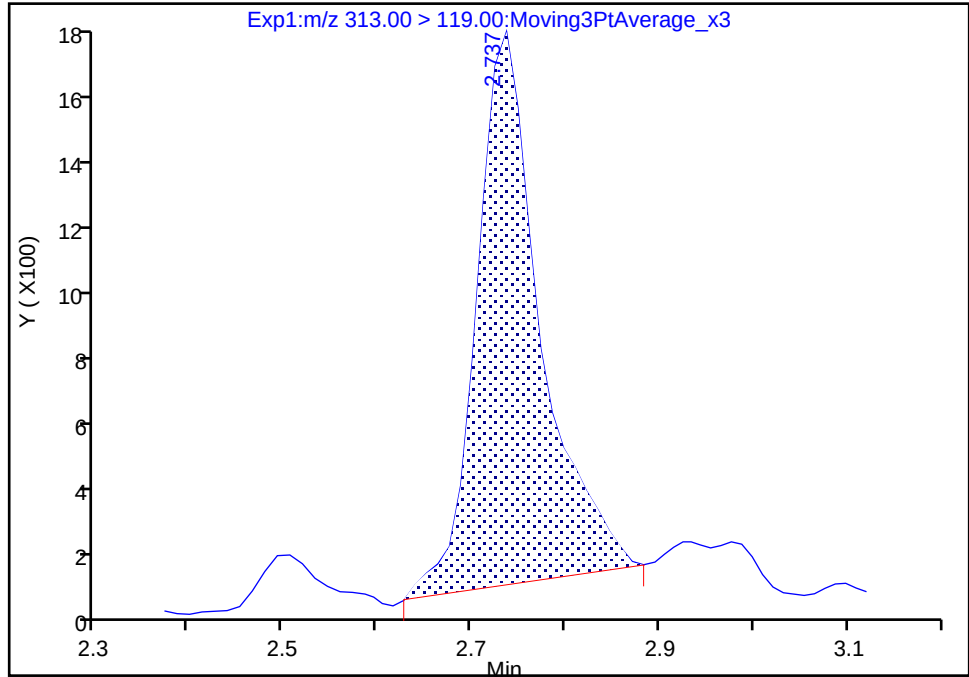
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

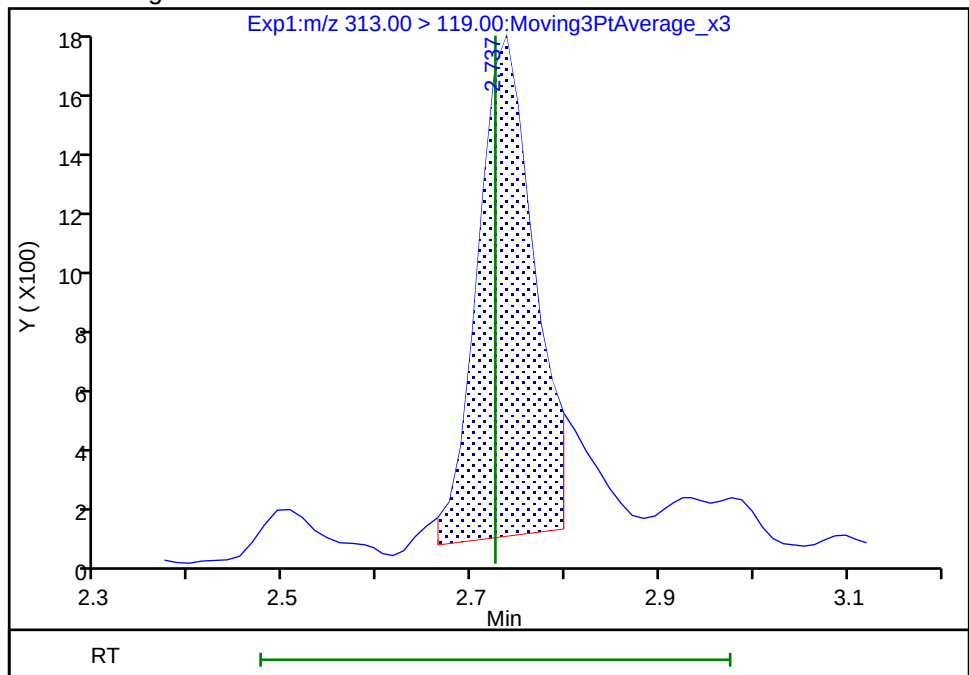
RT: 2.74
Area: 7764
Amount: 0.047197
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 6816
Amount: 0.049989
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 638 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

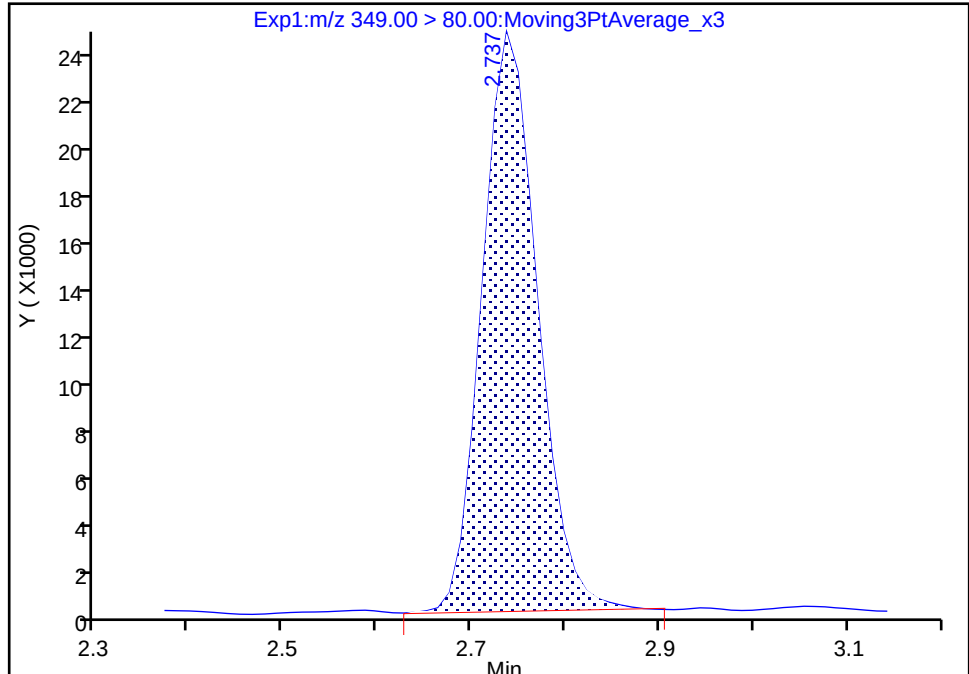
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

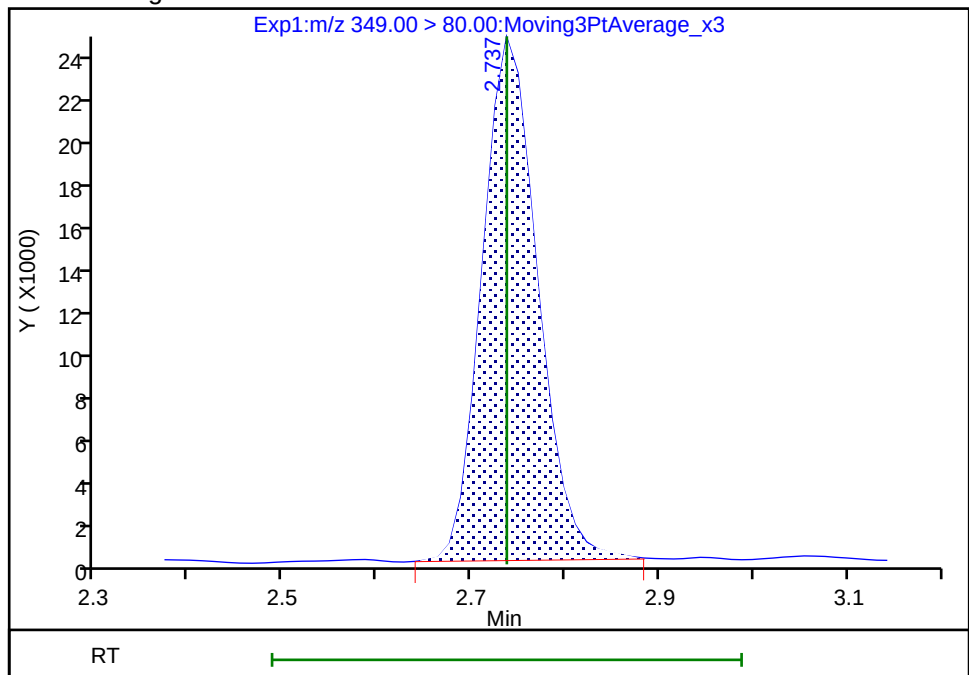
RT: 2.74
Area: 98071
Amount: 0.047922
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 97513
Amount: 0.047649
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

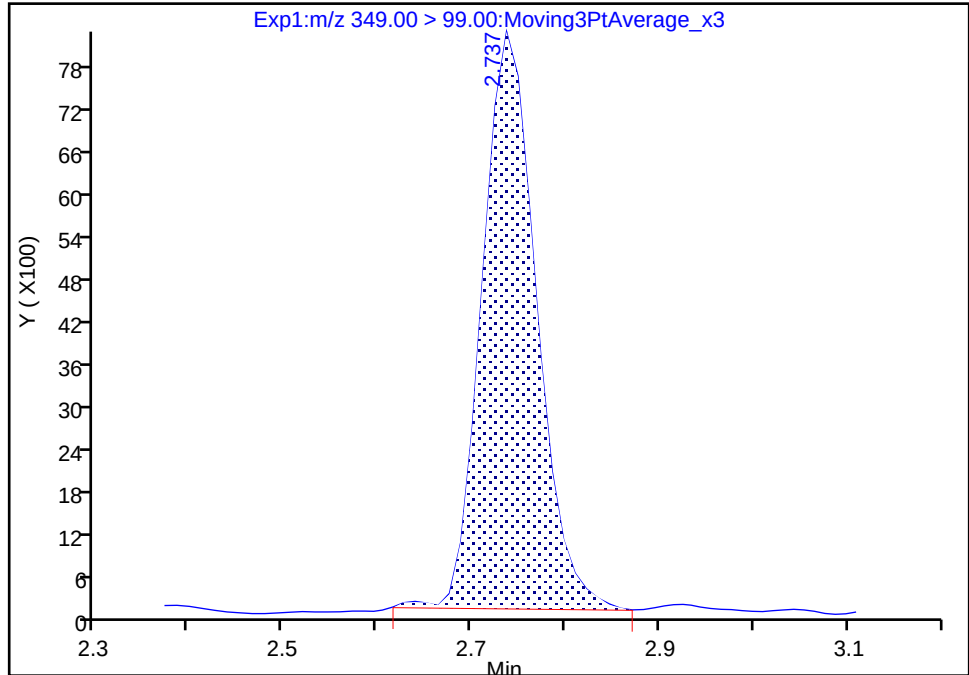
EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

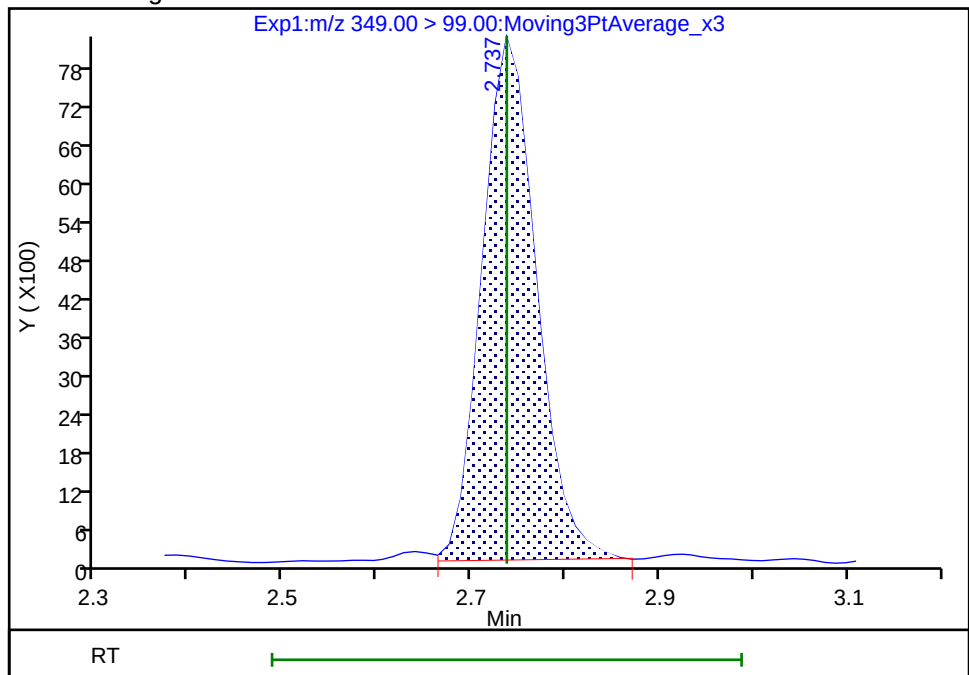
RT: 2.74
Area: 32494
Amount: 0.047922
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 32642
Amount: 0.047649
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:41:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 640 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

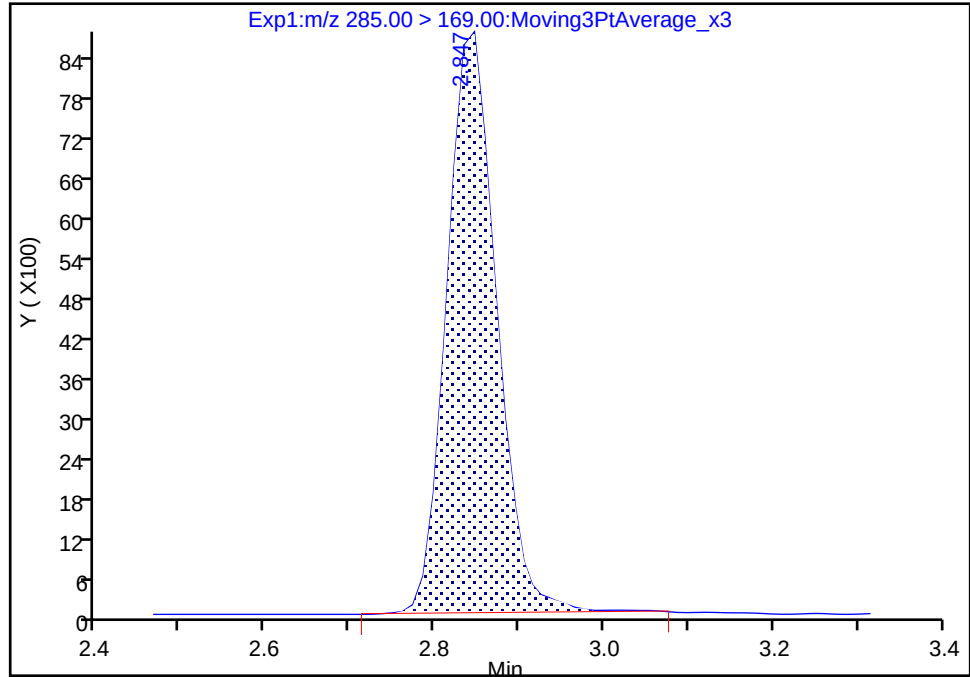
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

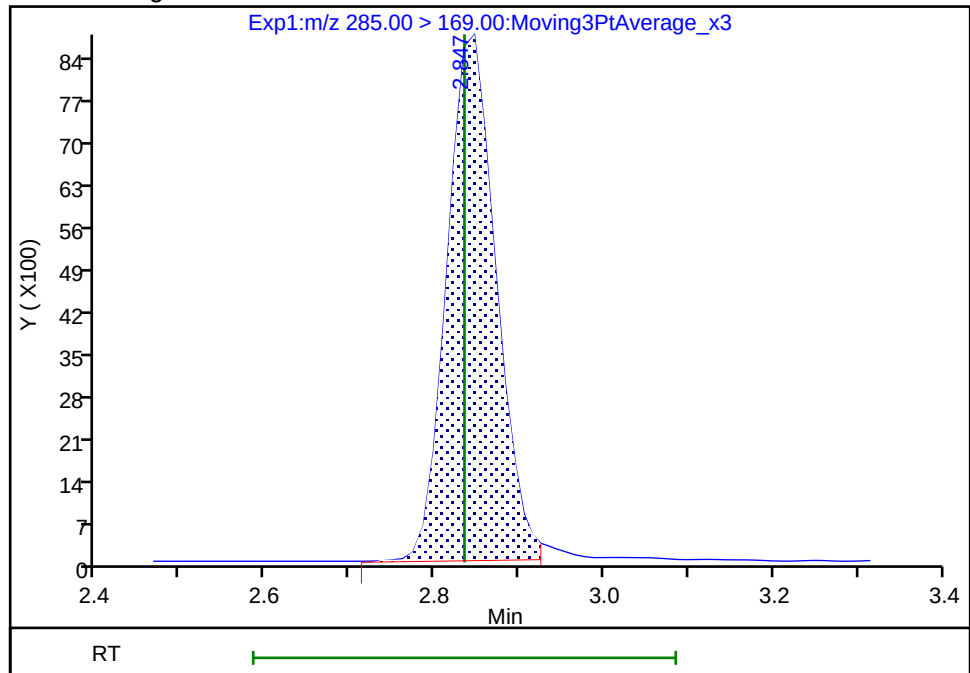
RT: 2.85
Area: 35993
Amount: 0.105416
Amount Units: ng/ml

Processing Integration Results



RT: 2.85
Area: 35244
Amount: 0.103222
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

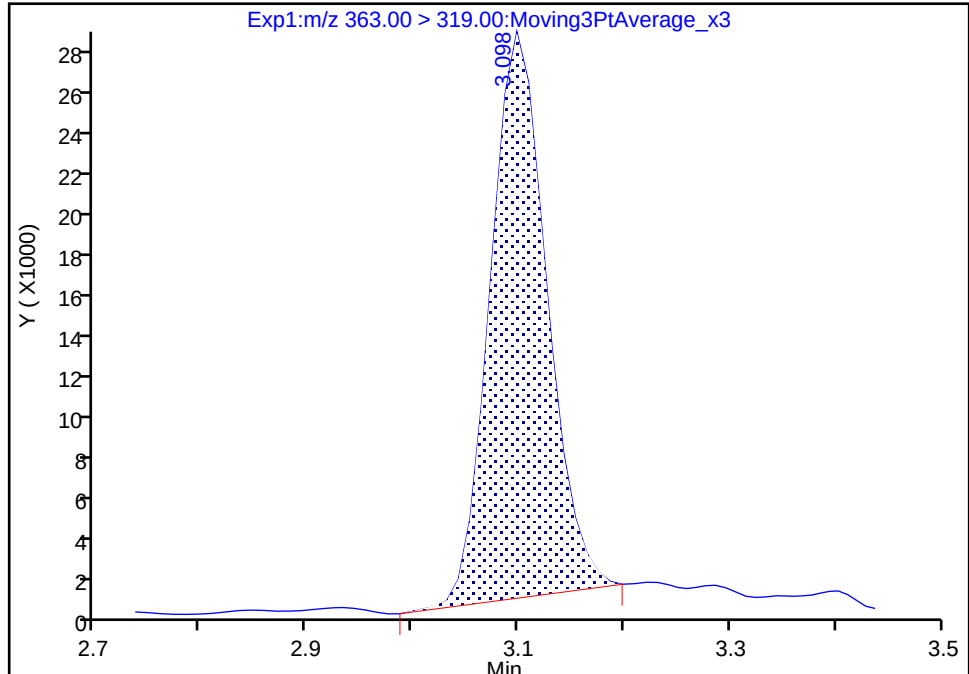
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

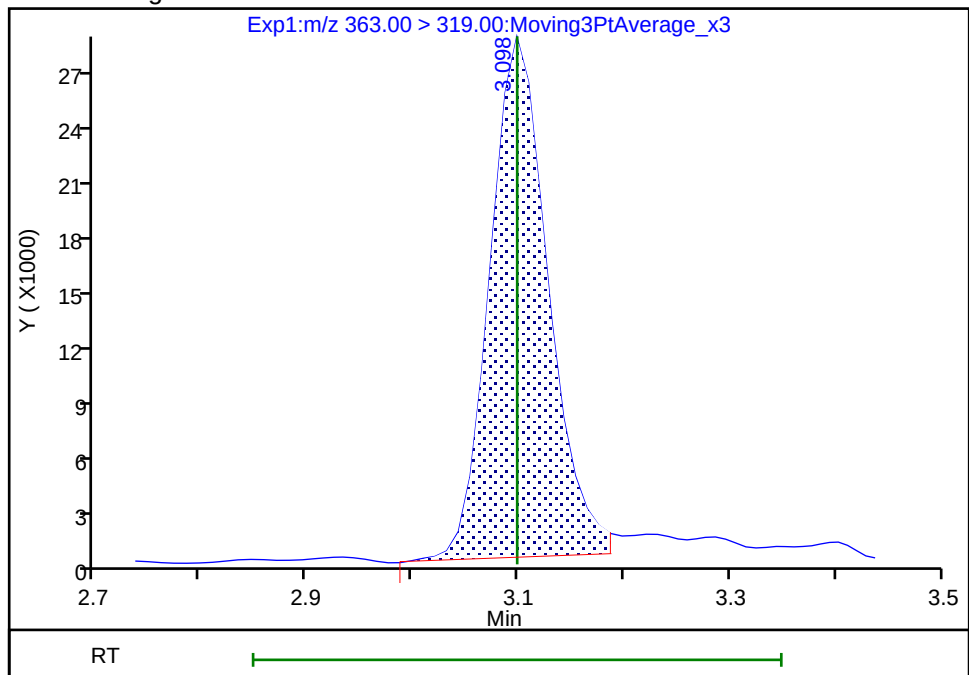
RT: 3.10
Area: 100744
Amount: 0.046663
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 105847
Amount: 0.049026
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

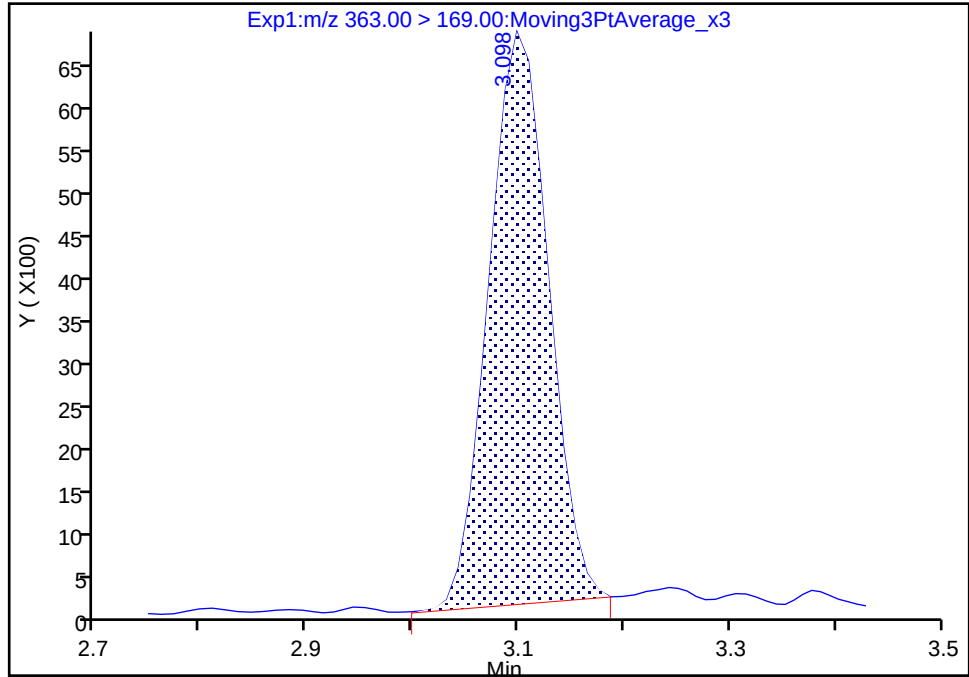
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

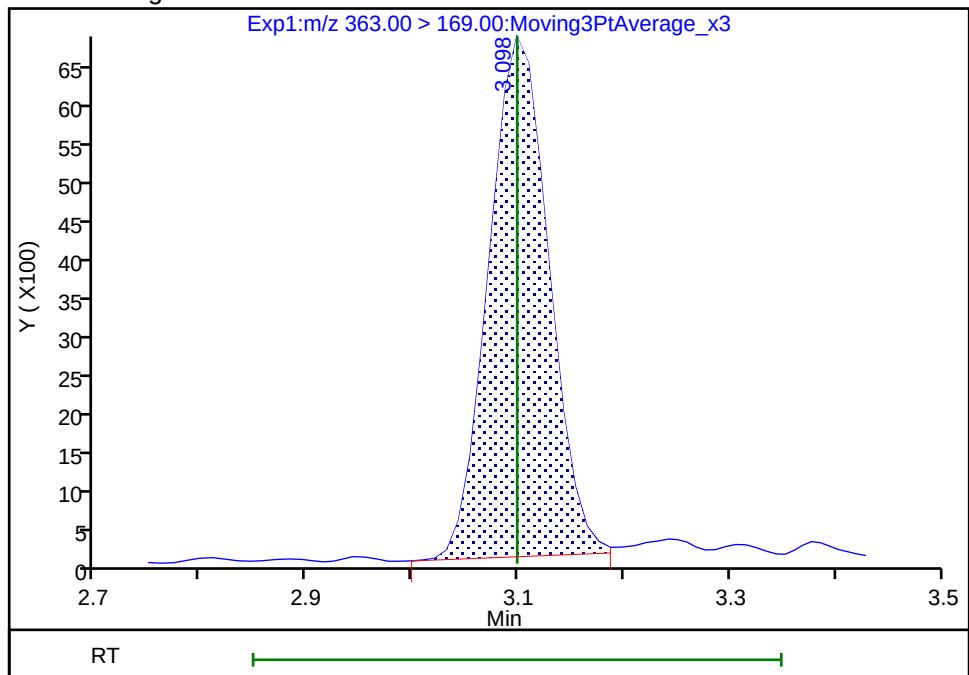
RT: 3.10
Area: 26039
Amount: 0.046663
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 26457
Amount: 0.049026
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

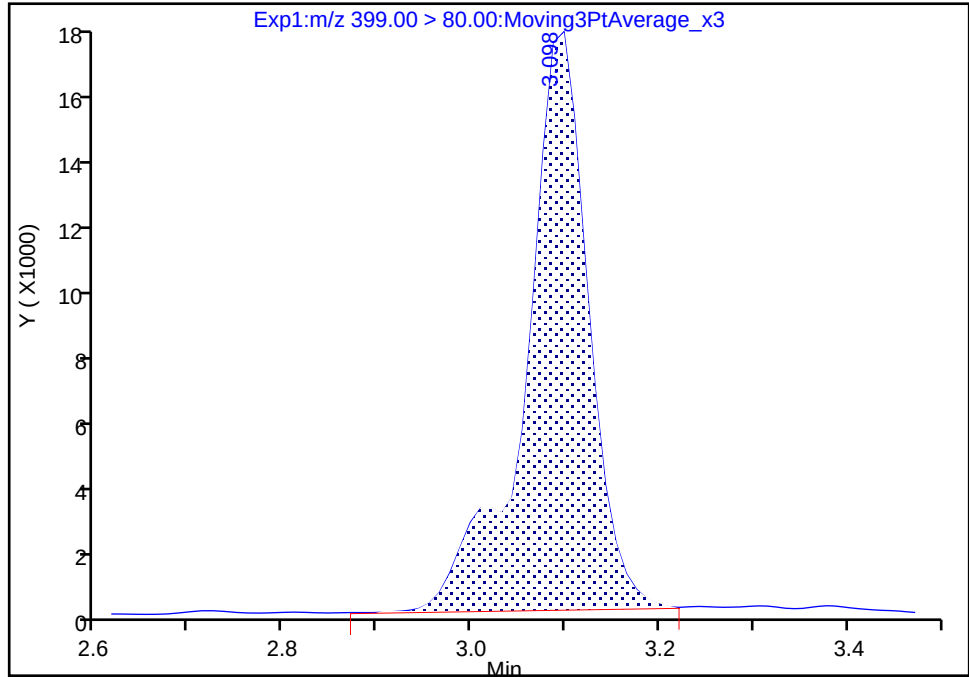
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

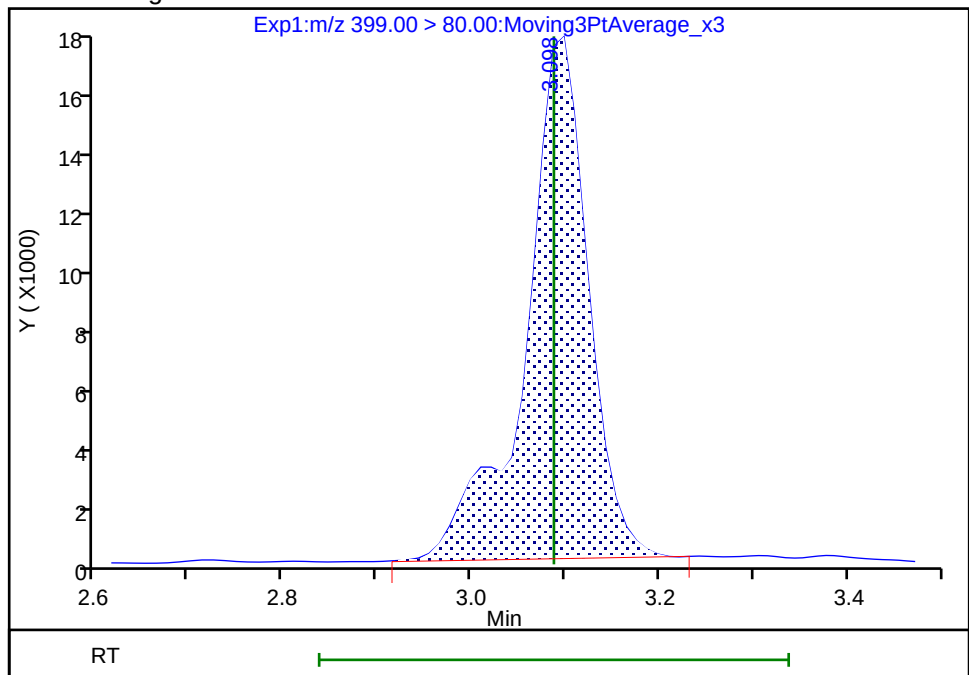
RT: 3.10
Area: 80922
Amount: 0.046786
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 80629
Amount: 0.046617
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

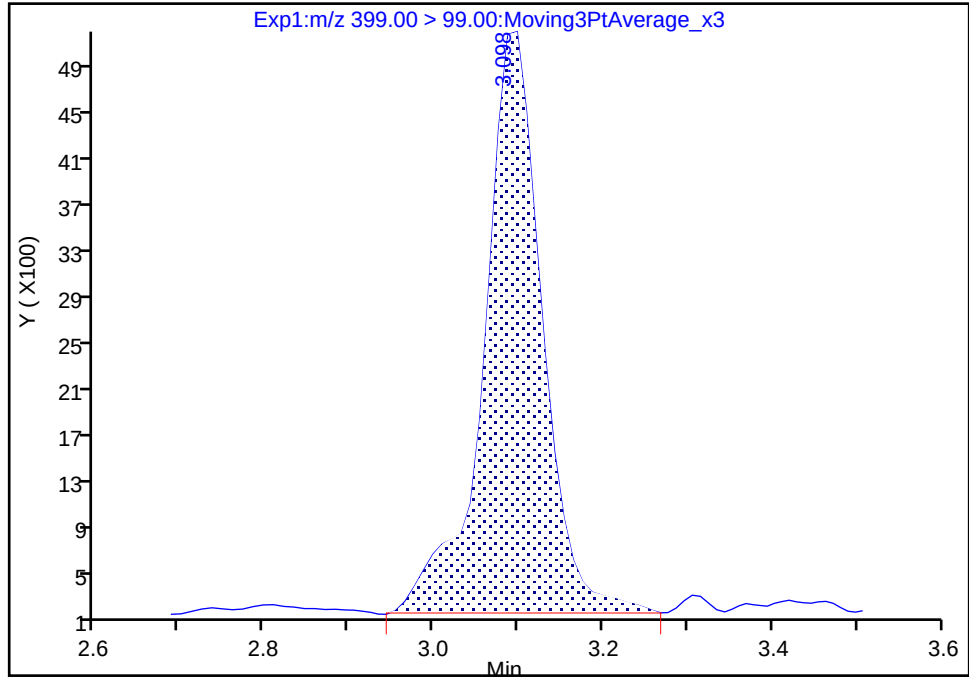
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

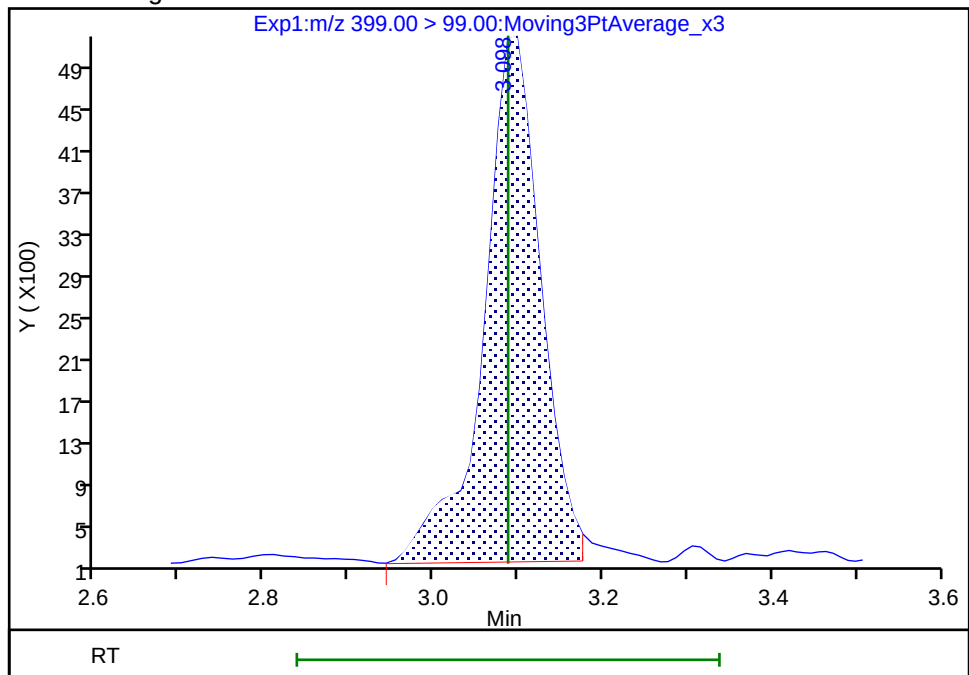
RT: 3.10
Area: 24547
Amount: 0.046786
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 23941
Amount: 0.046617
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 645 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

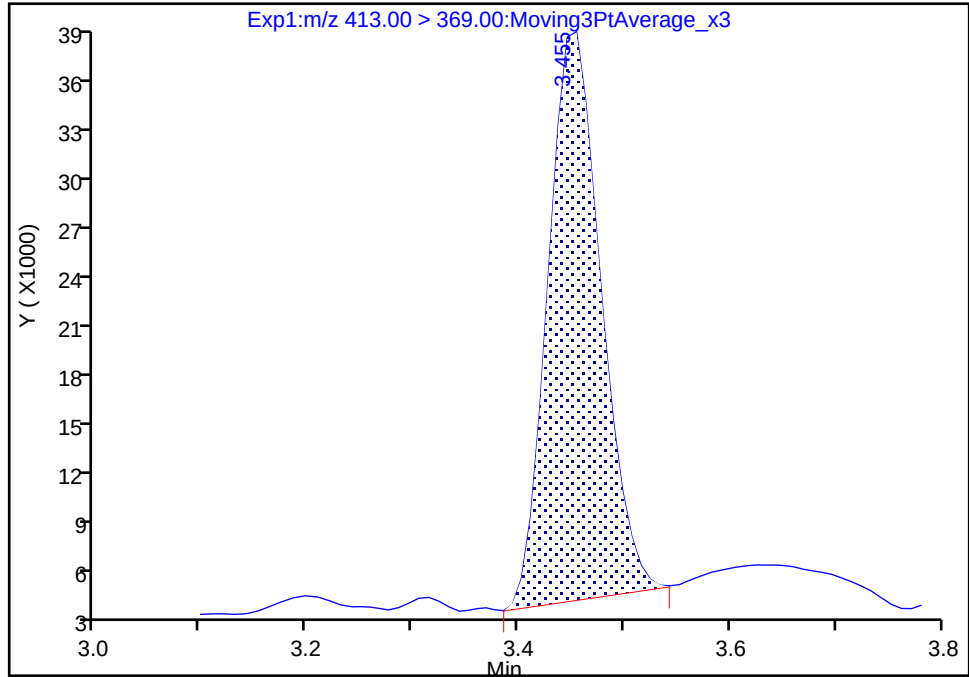
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

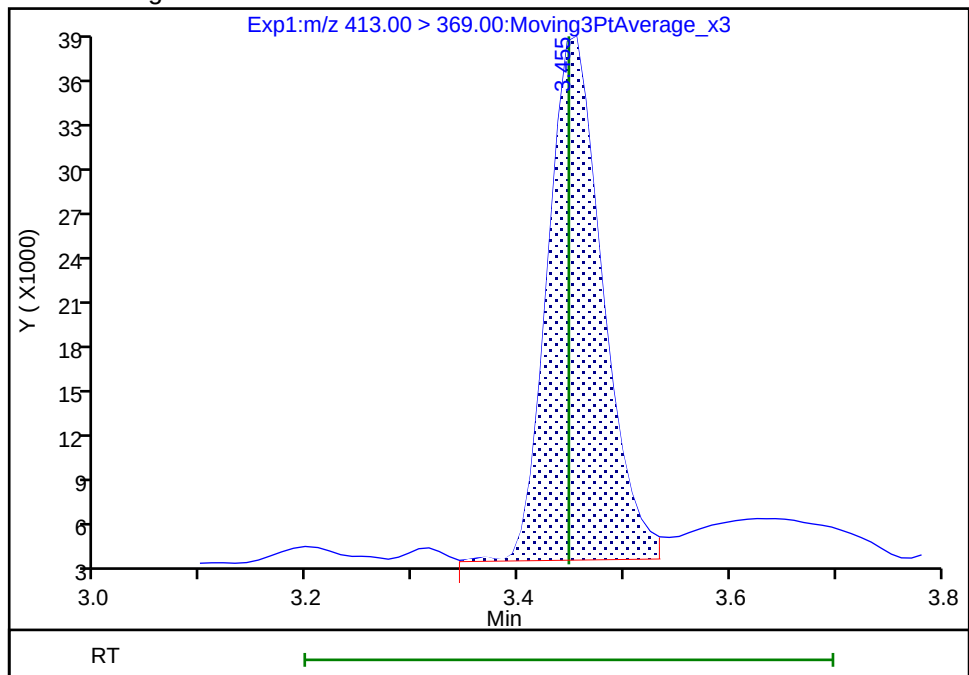
RT: 3.45
Area: 119687
Amount: 0.049228
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 125864
Amount: 0.051768
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

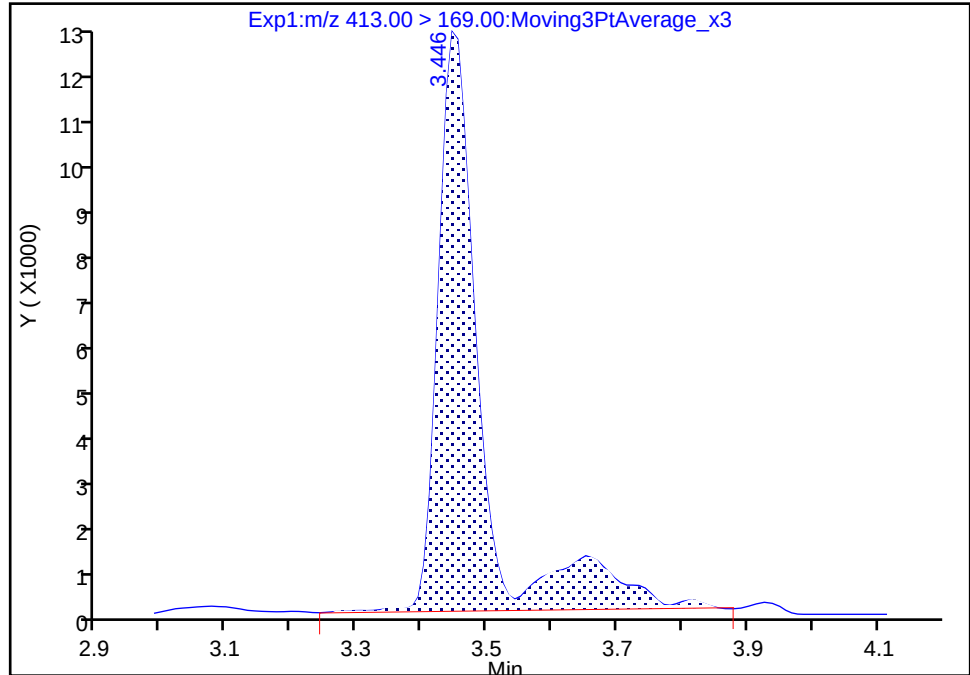
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

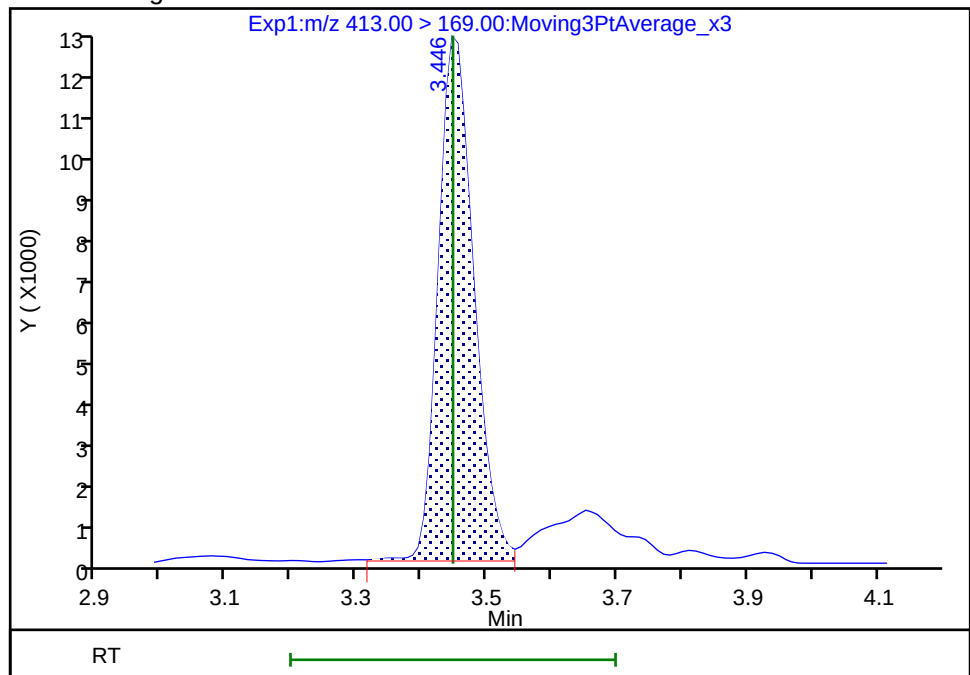
RT: 3.45
Area: 56246
Amount: 0.049228
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 46166
Amount: 0.051768
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:43:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

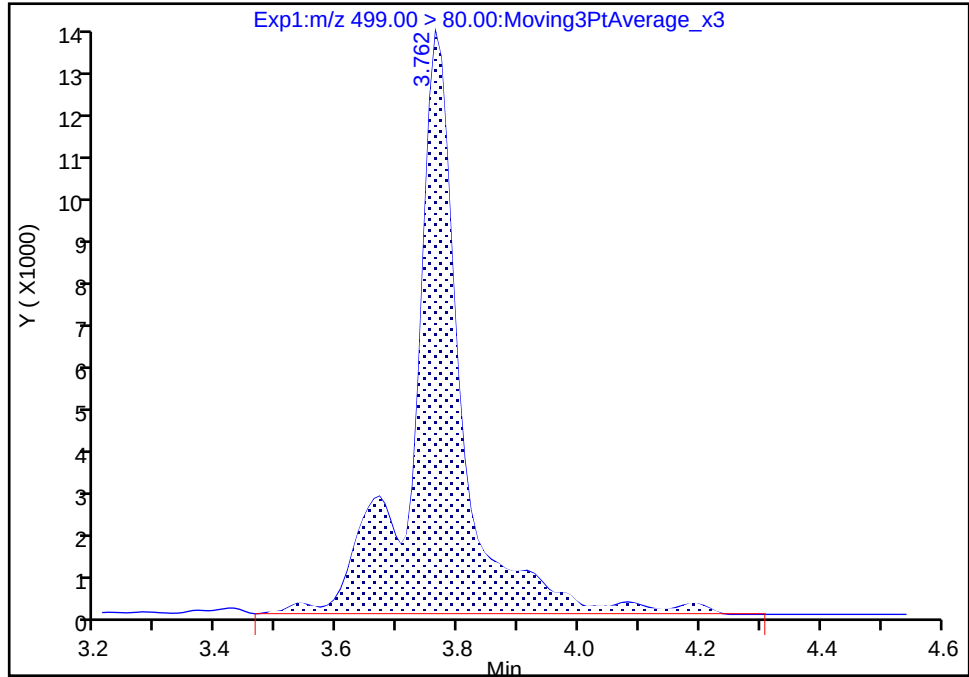
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

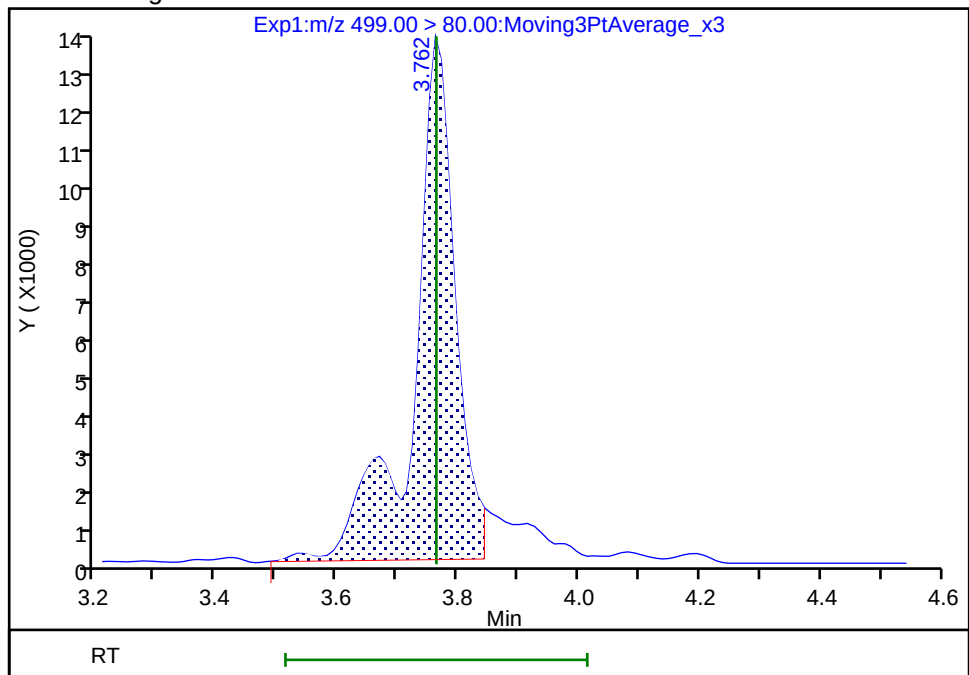
RT: 3.76
Area: 76421
Amount: 0.060073
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 64037
Amount: 0.050338
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:44:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

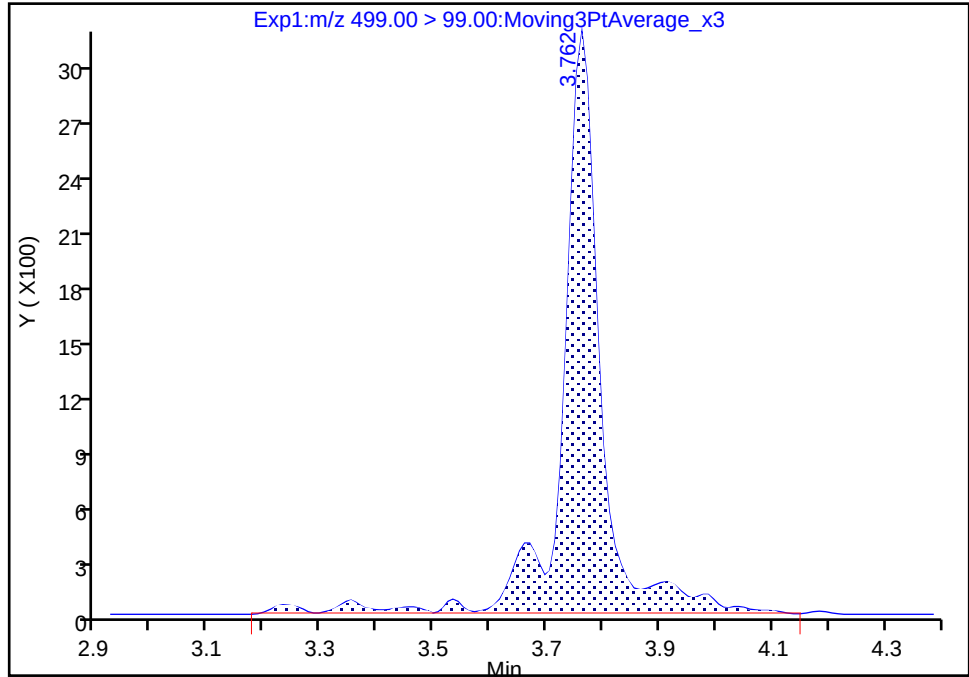
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

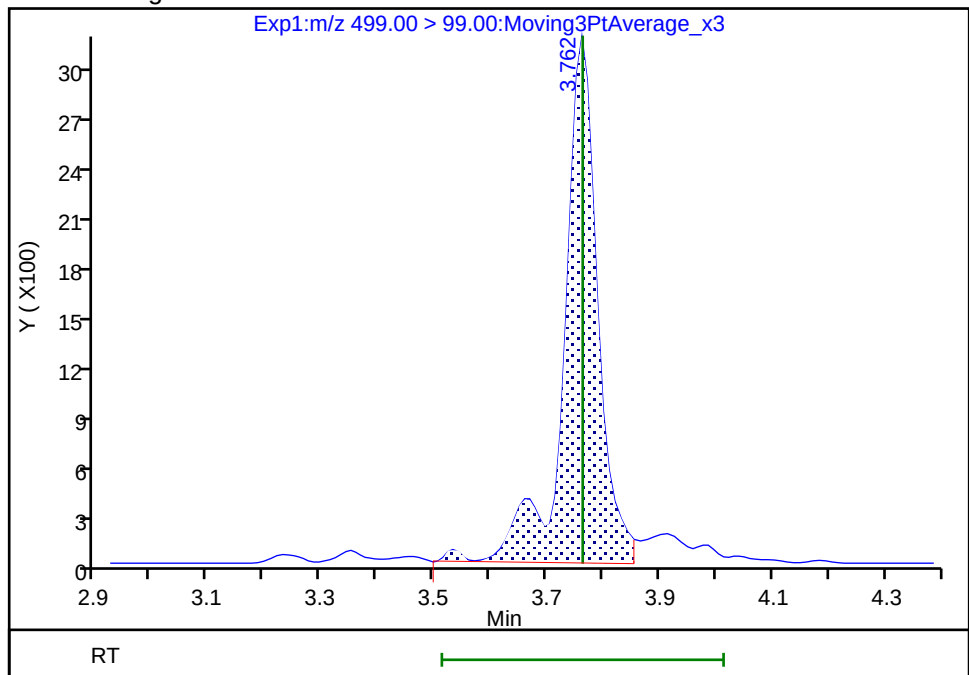
RT: 3.76
Area: 15278
Amount: 0.060073
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 13245
Amount: 0.050338
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:44:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 649 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

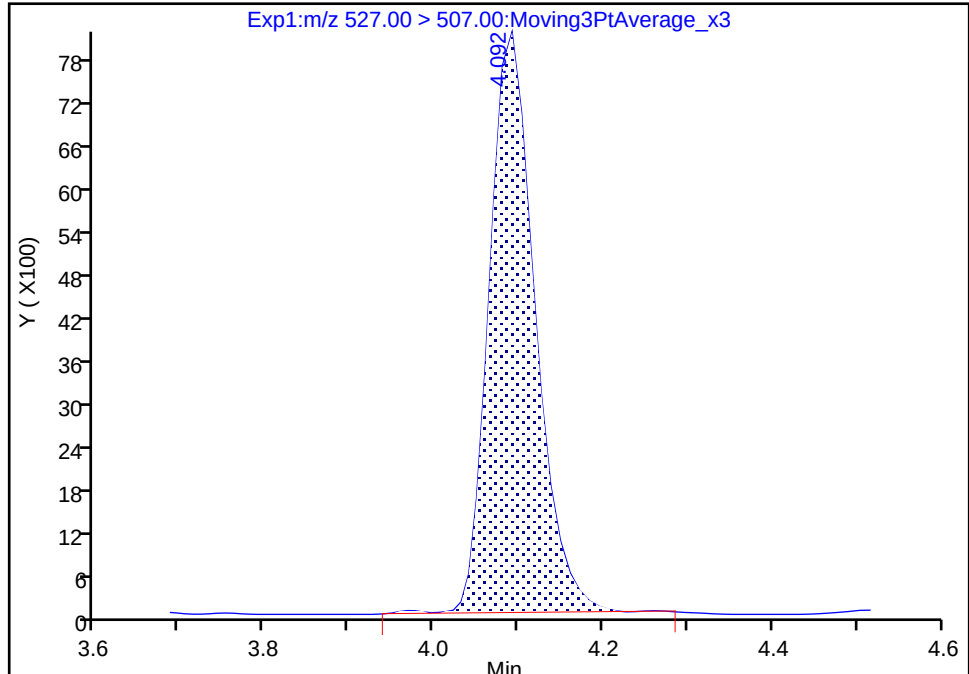
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

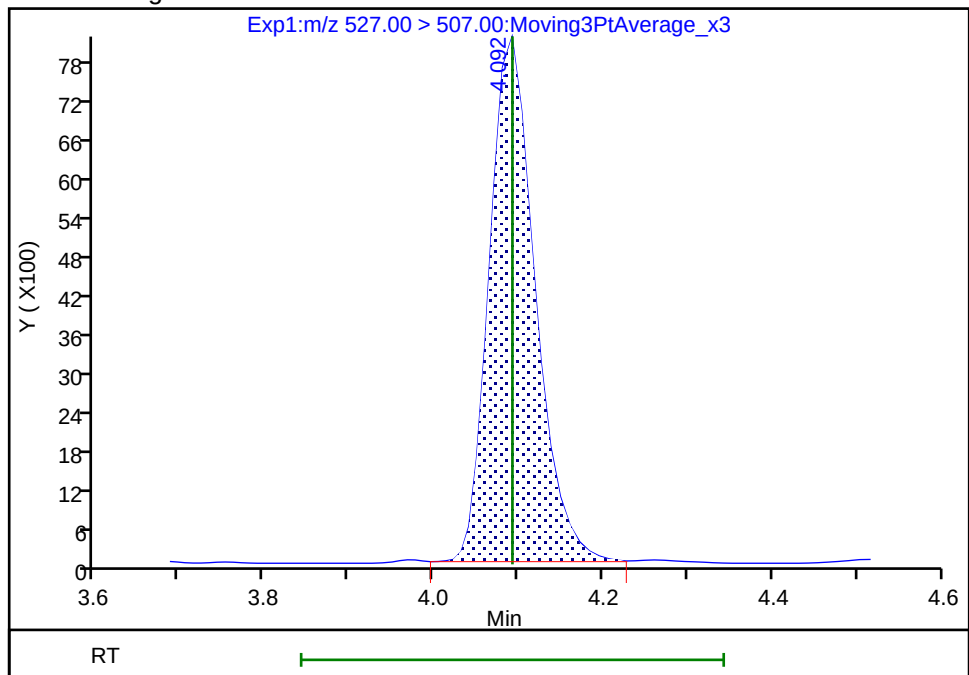
RT: 4.09
Area: 30700
Amount: 0.058314
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 30573
Amount: 0.058073
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:45:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

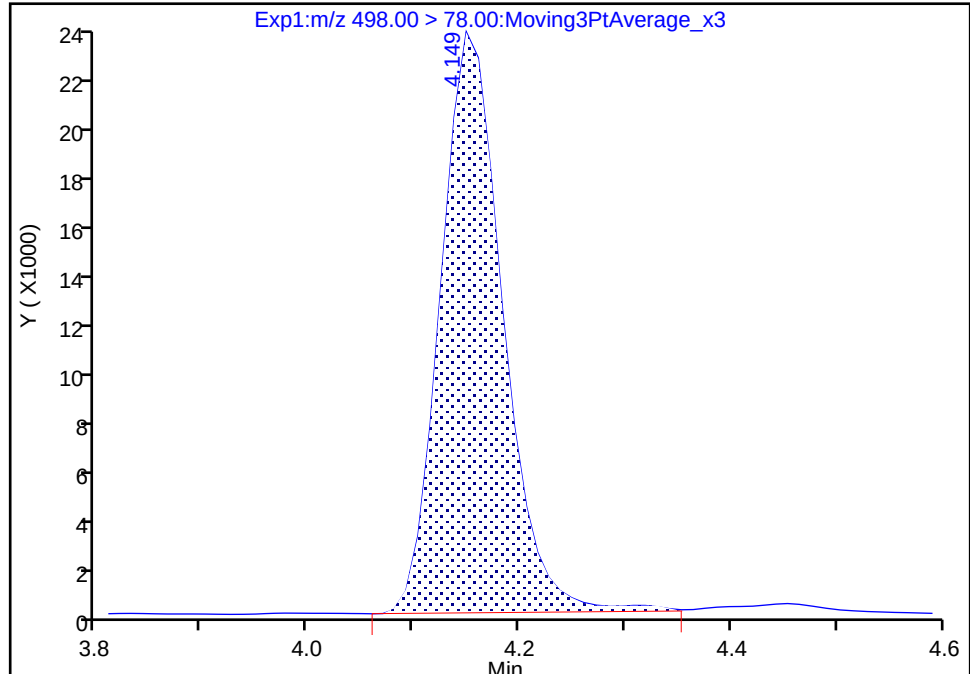
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

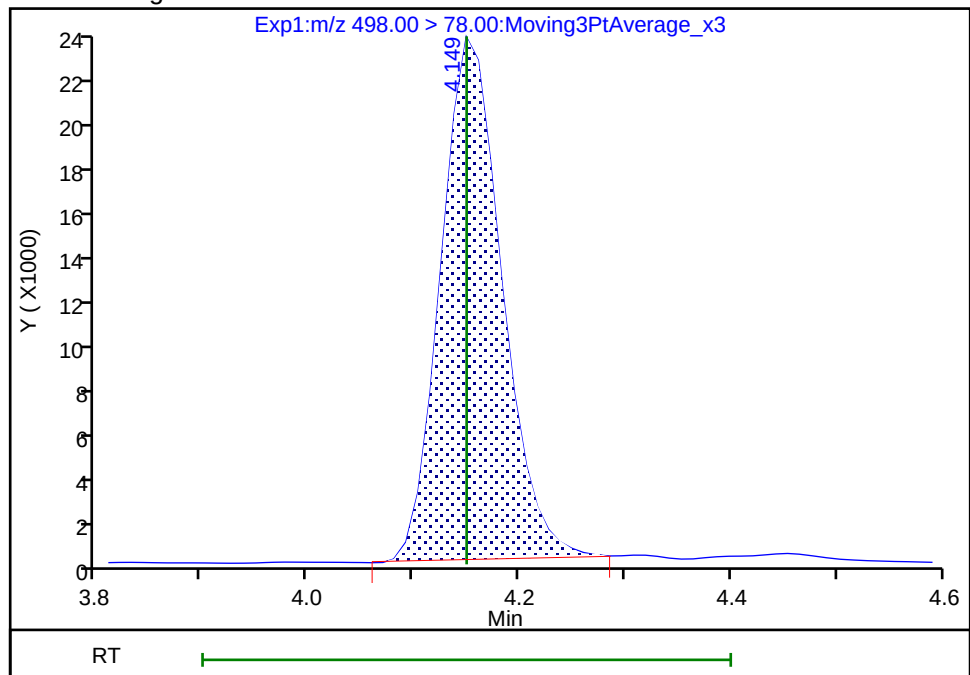
RT: 4.15
Area: 97255
Amount: 0.049680
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 95466
Amount: 0.048766
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:45:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

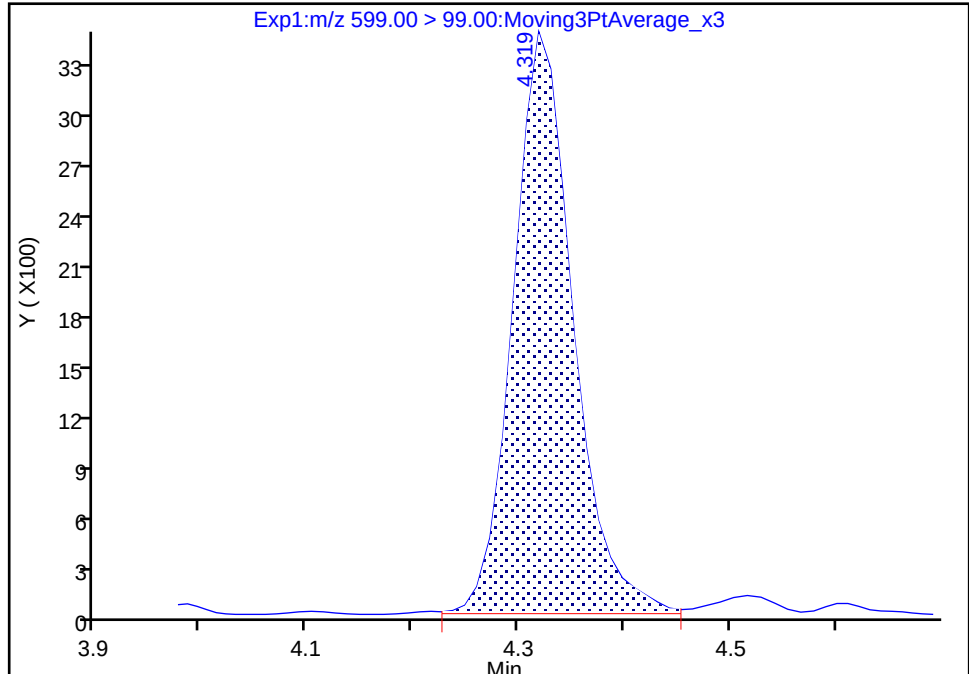
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

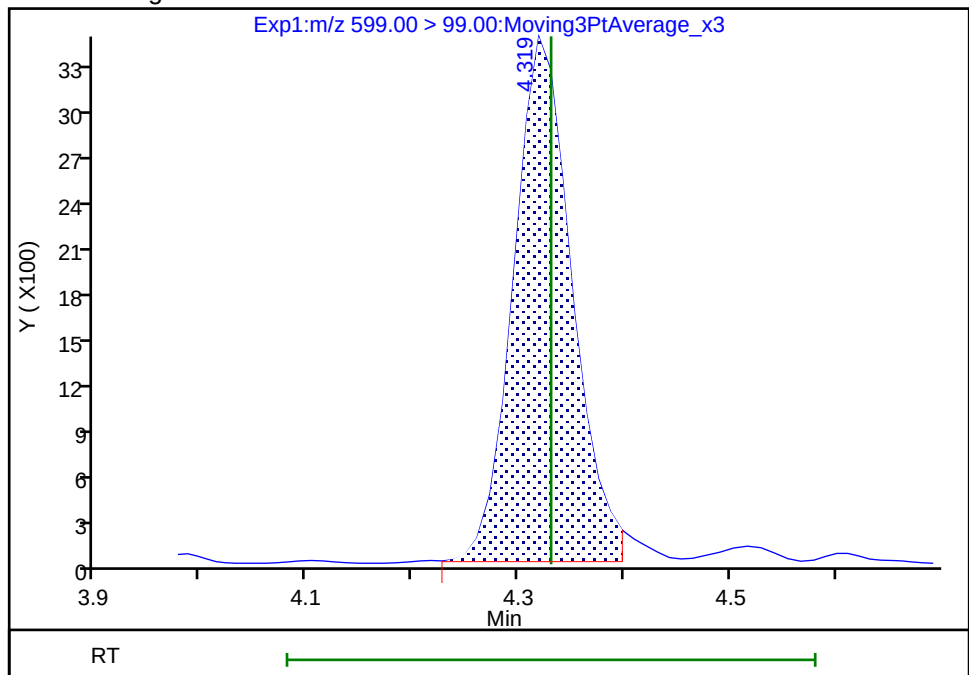
RT: 4.32
Area: 13458
Amount: 0.043187
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 13153
Amount: 0.043187
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:45:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

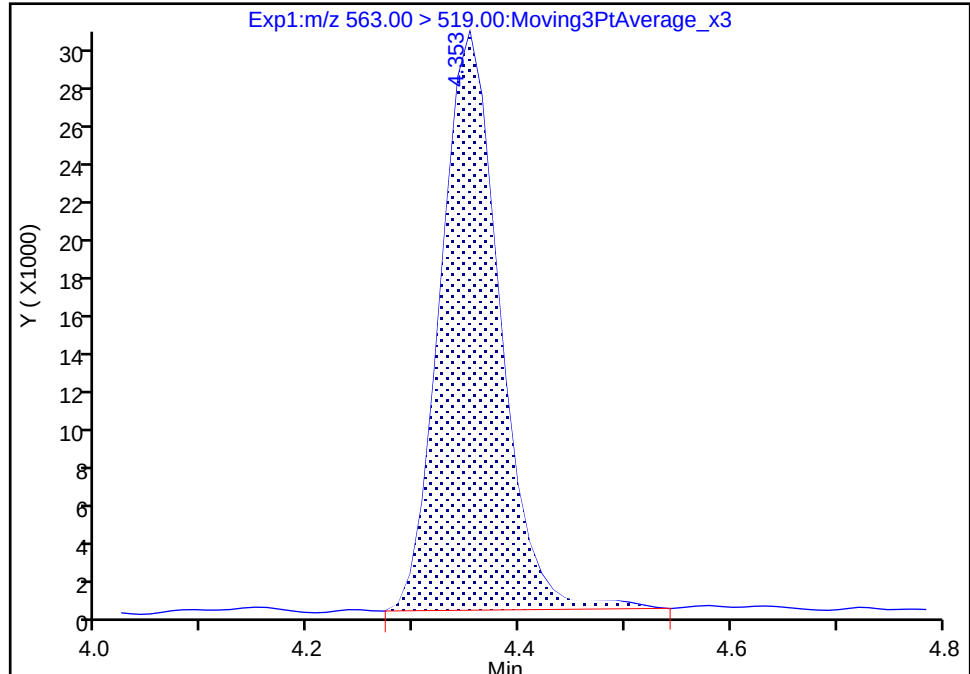
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

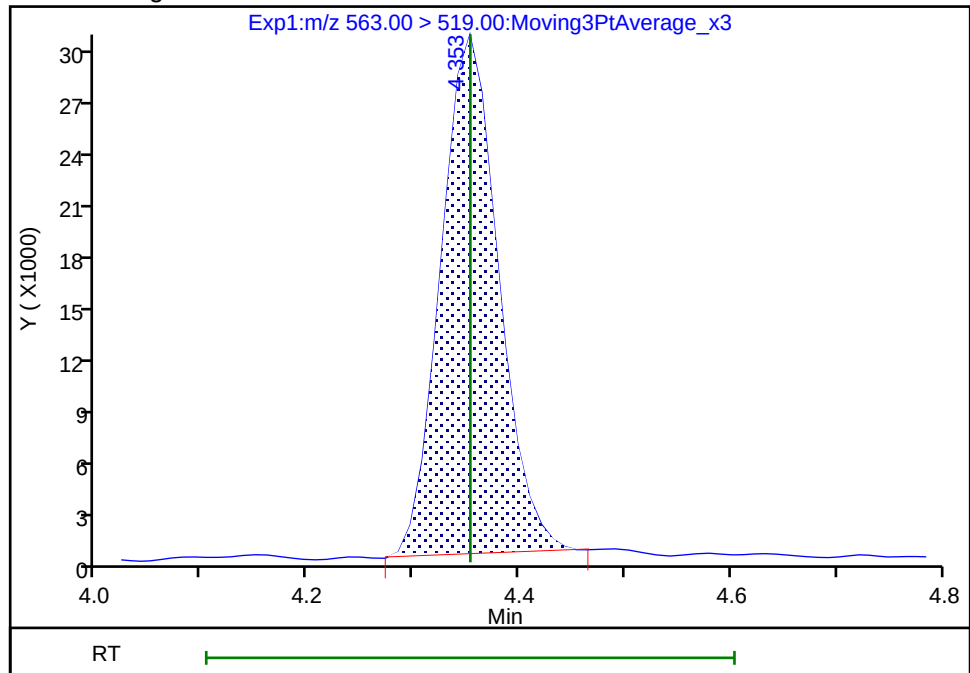
RT: 4.35
Area: 117075
Amount: 0.054305
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 113467
Amount: 0.052631
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:45:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

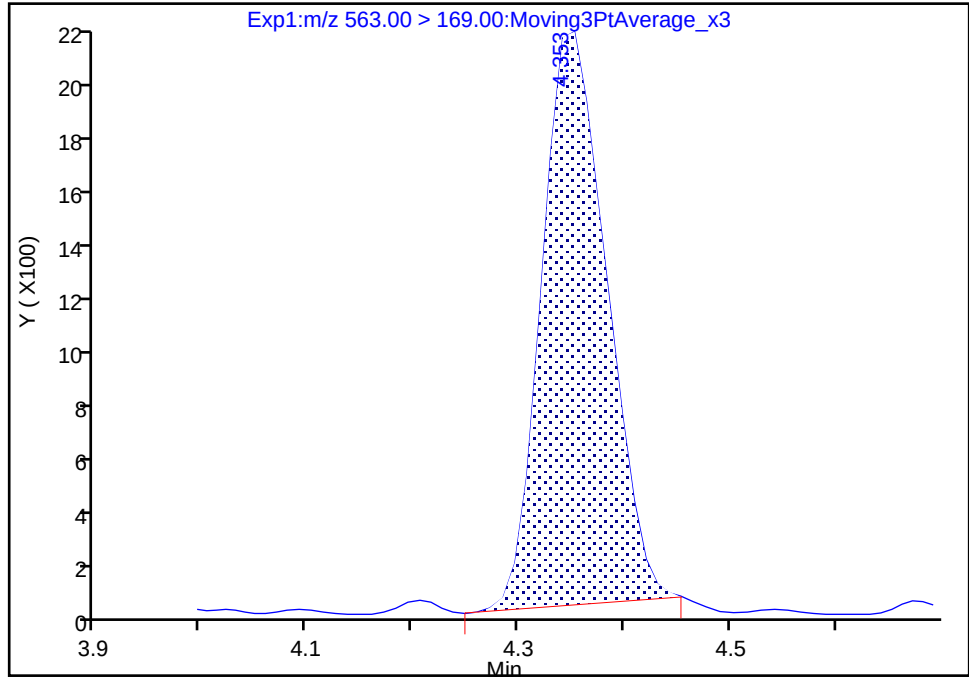
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

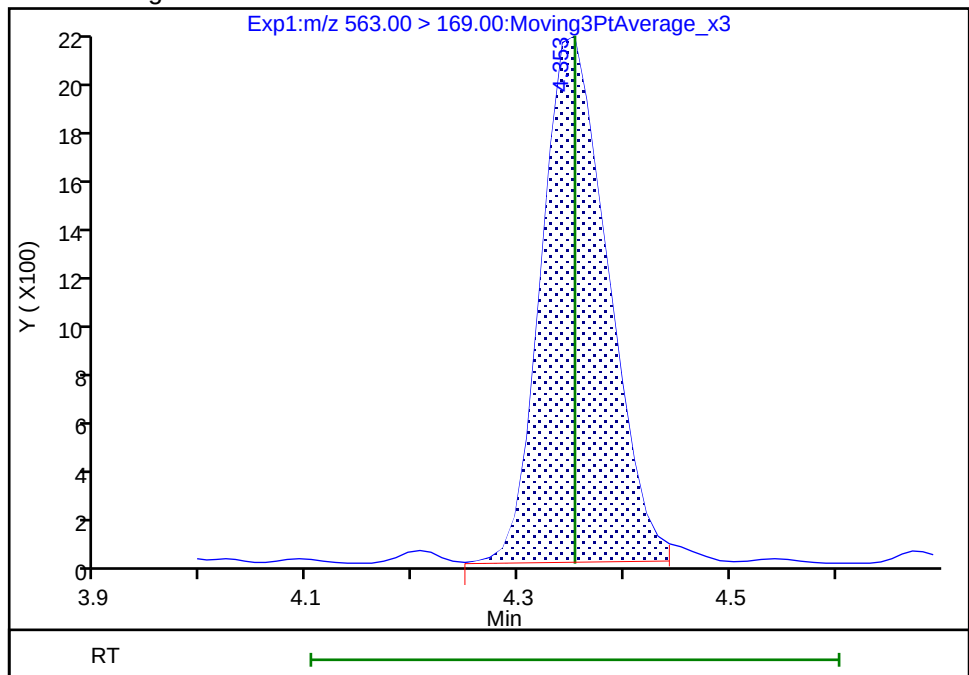
RT: 4.35
Area: 8899
Amount: 0.054305
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 9211
Amount: 0.052631
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:45:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

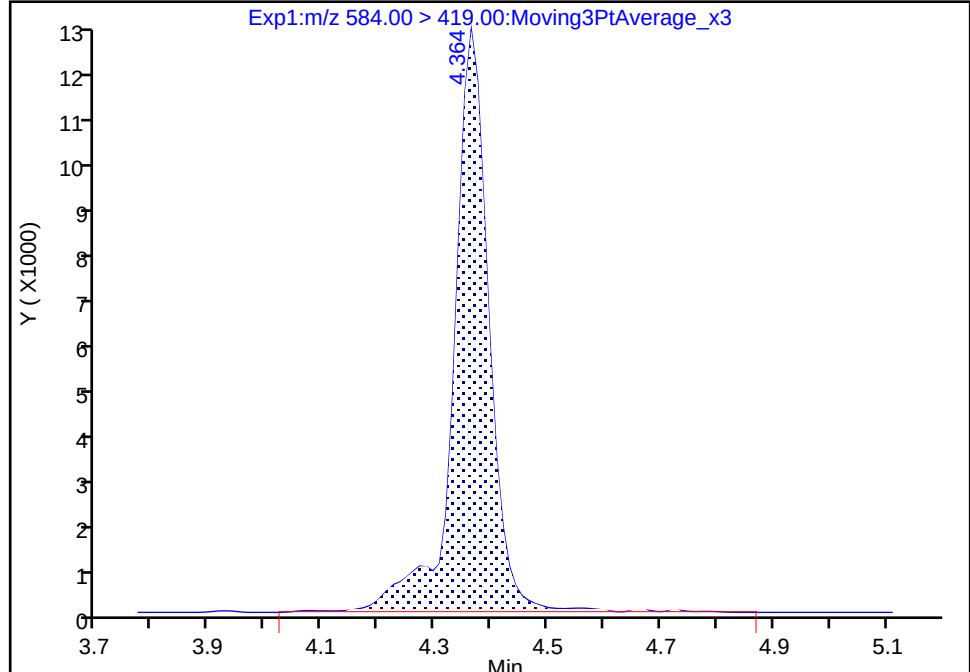
Detector: EXP1

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

Signal: 1

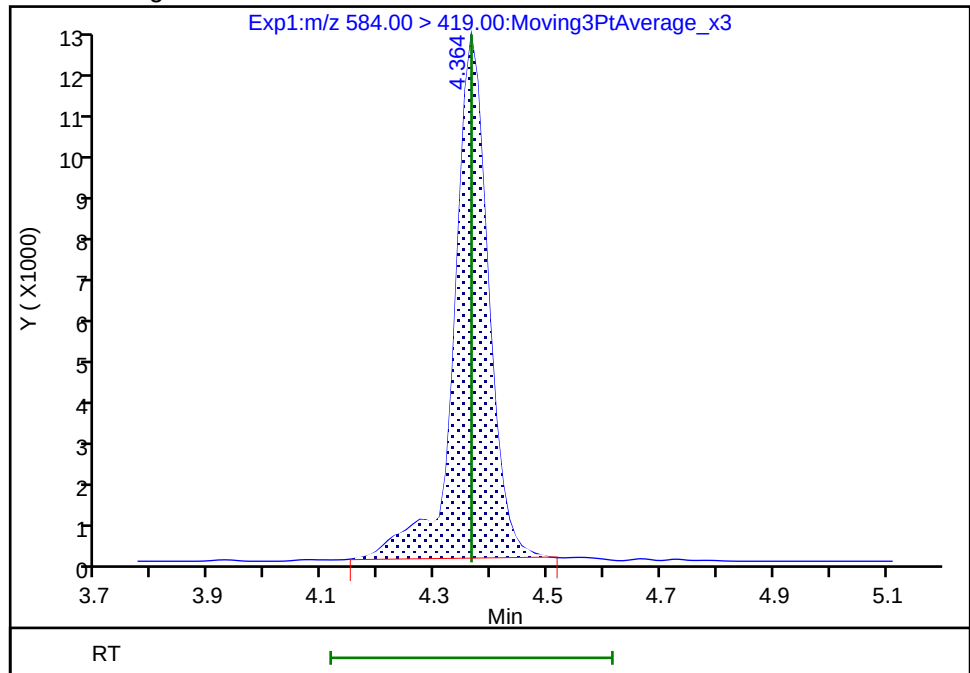
RT: 4.36
Area: 55438
Amount: 0.137215
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 52946
Amount: 0.131047
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

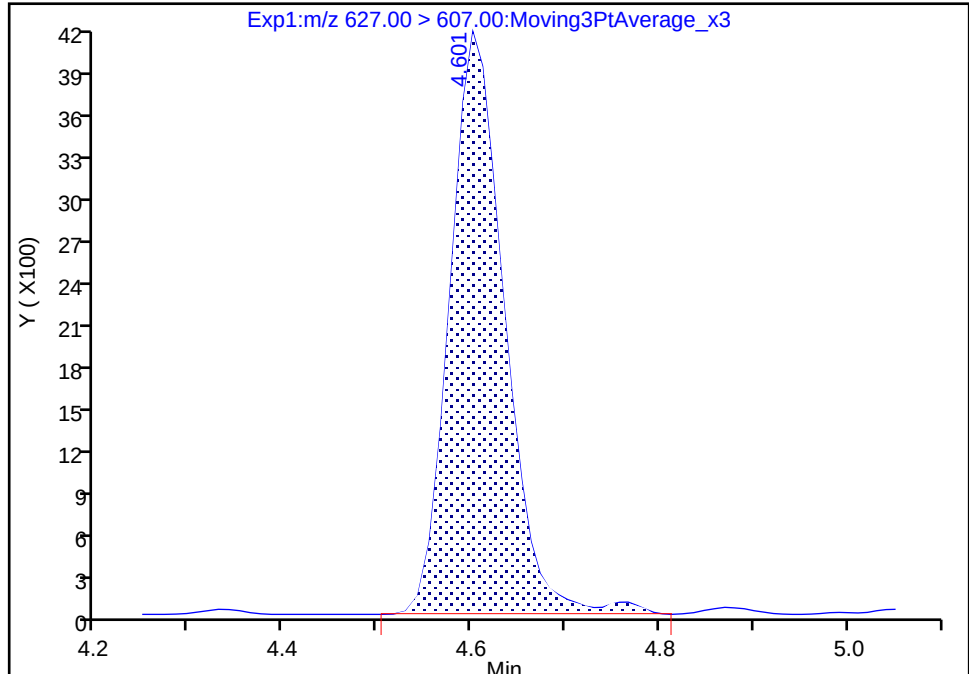
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

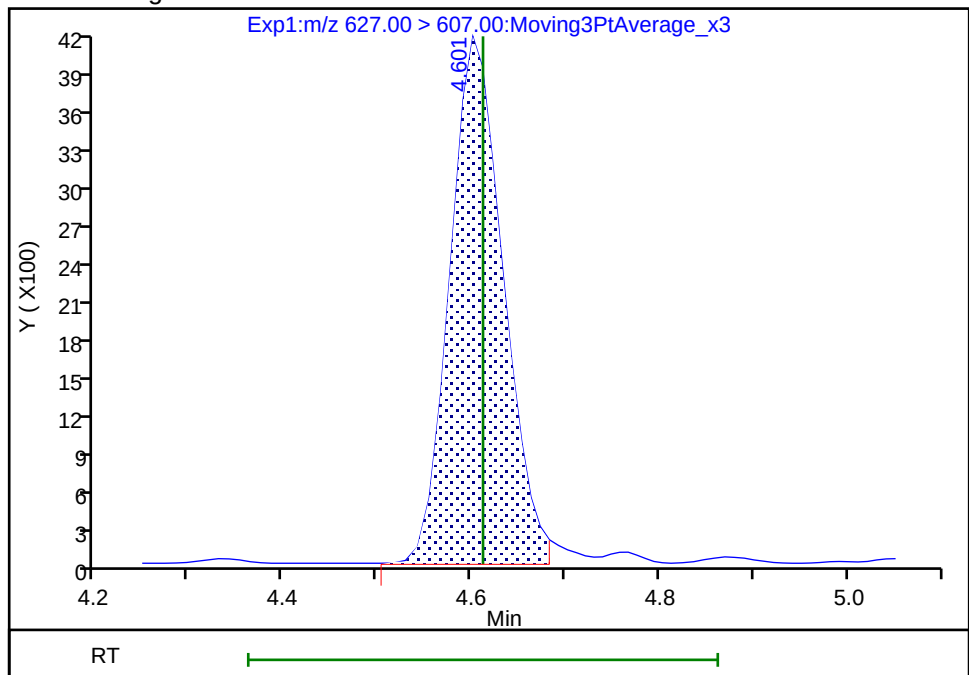
RT: 4.60
Area: 16759
Amount: 0.052975
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 16230
Amount: 0.051303
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

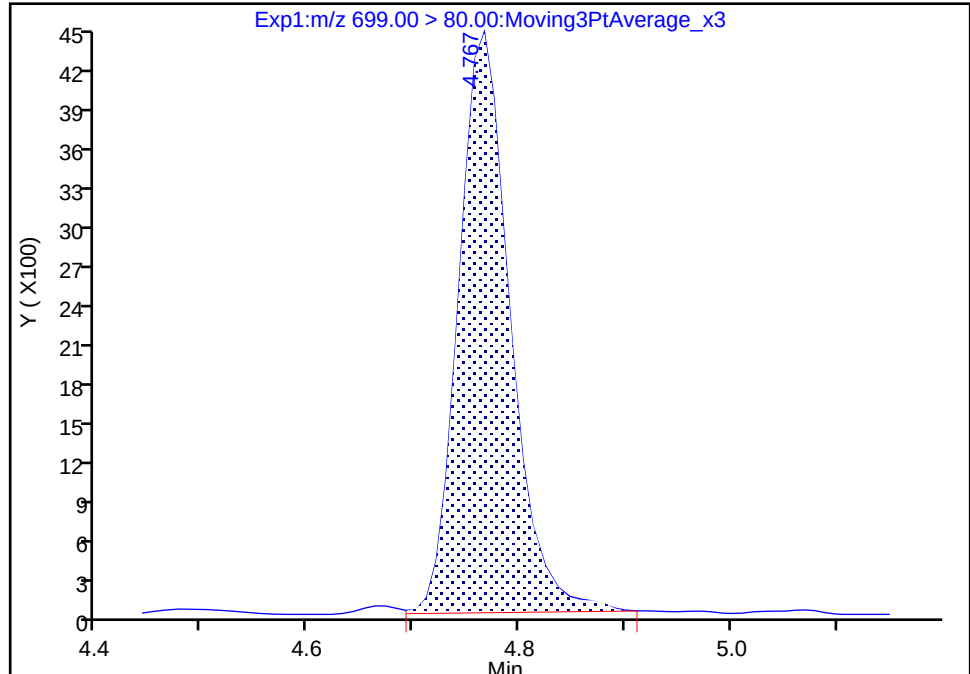
Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

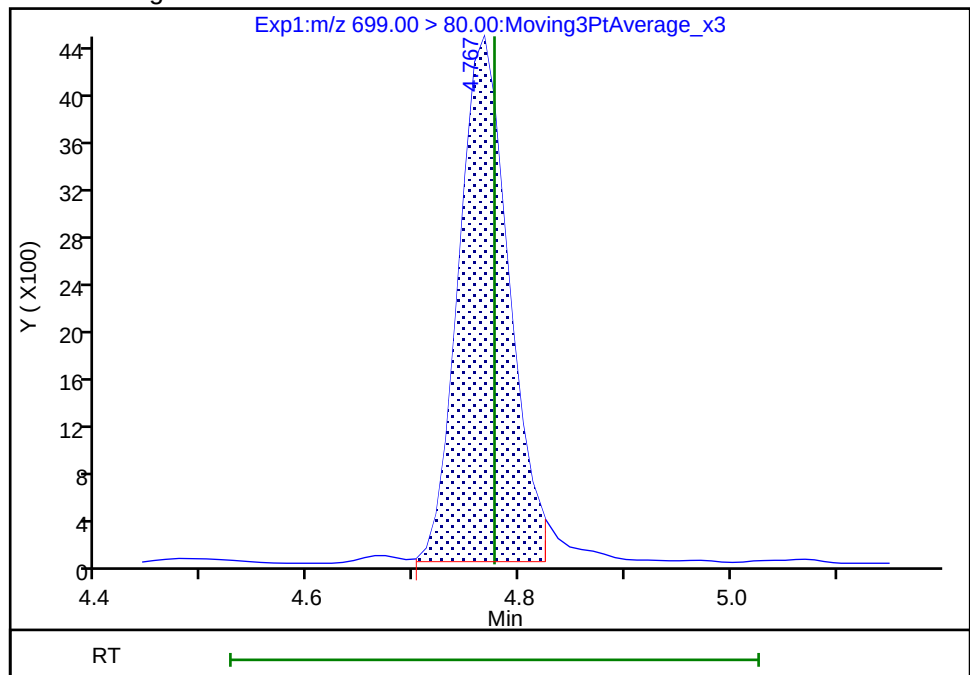
RT: 4.77
Area: 15195
Amount: 0.047370
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 14674
Amount: 0.045746
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d

Injection Date: 30-Dec-2022 13:17:39

Instrument ID: LC812

Lims ID: CCVLIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

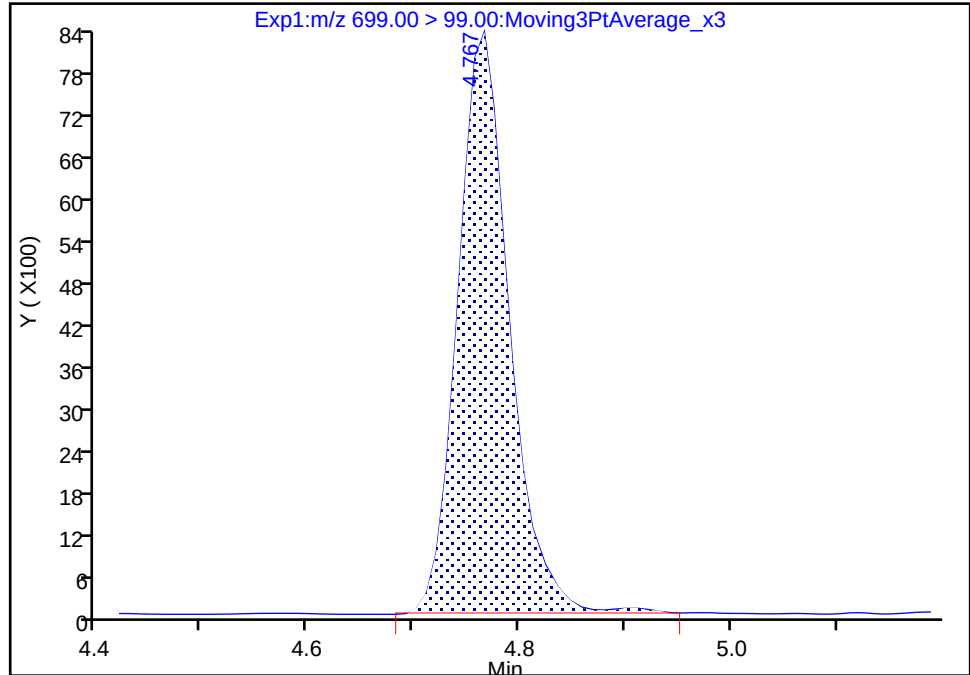
EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

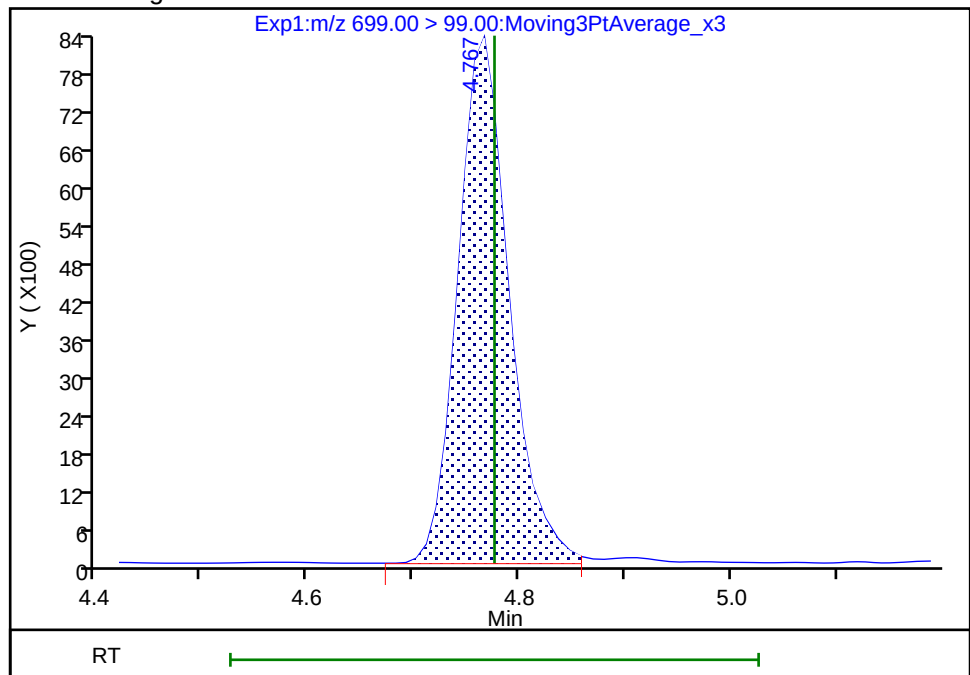
RT: 4.77
Area: 28234
Amount: 0.047370
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 27951
Amount: 0.045746
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 658 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

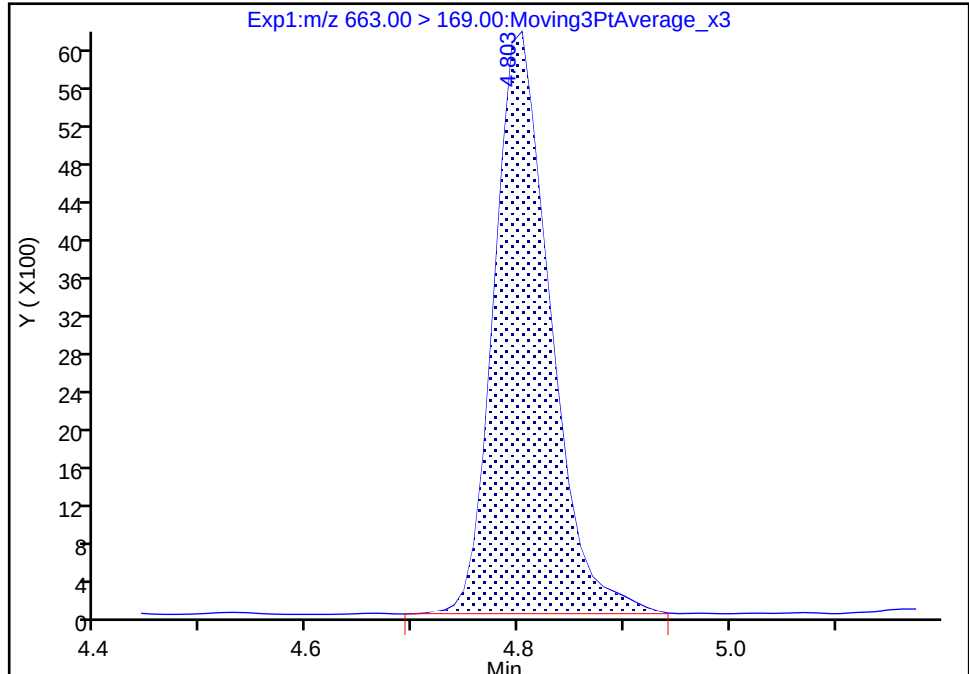
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

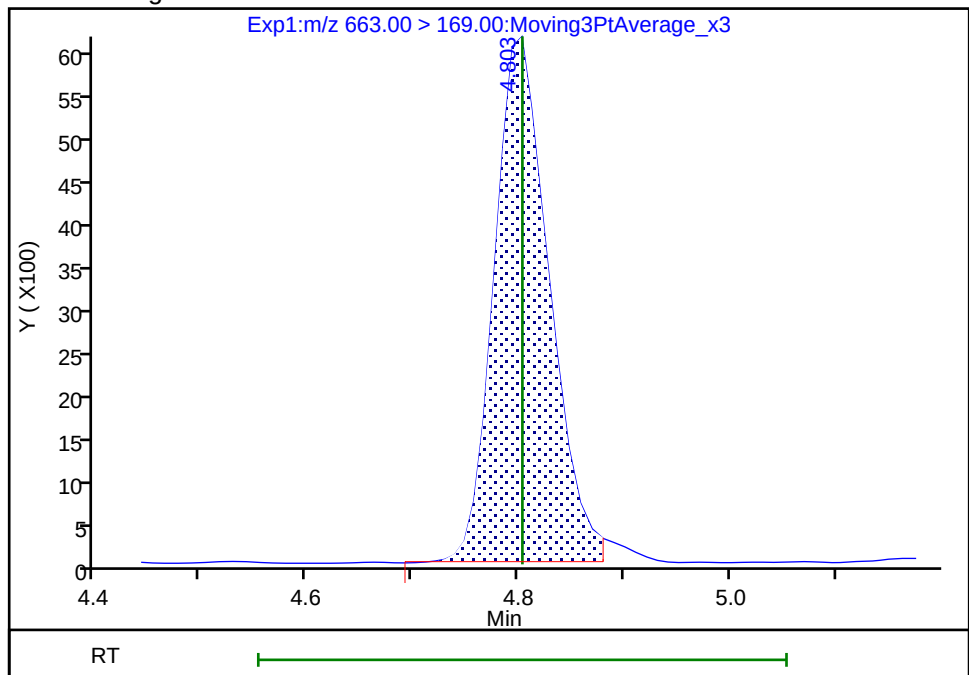
RT: 4.80
Area: 22474
Amount: 0.057131
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 22021
Amount: 0.056511
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

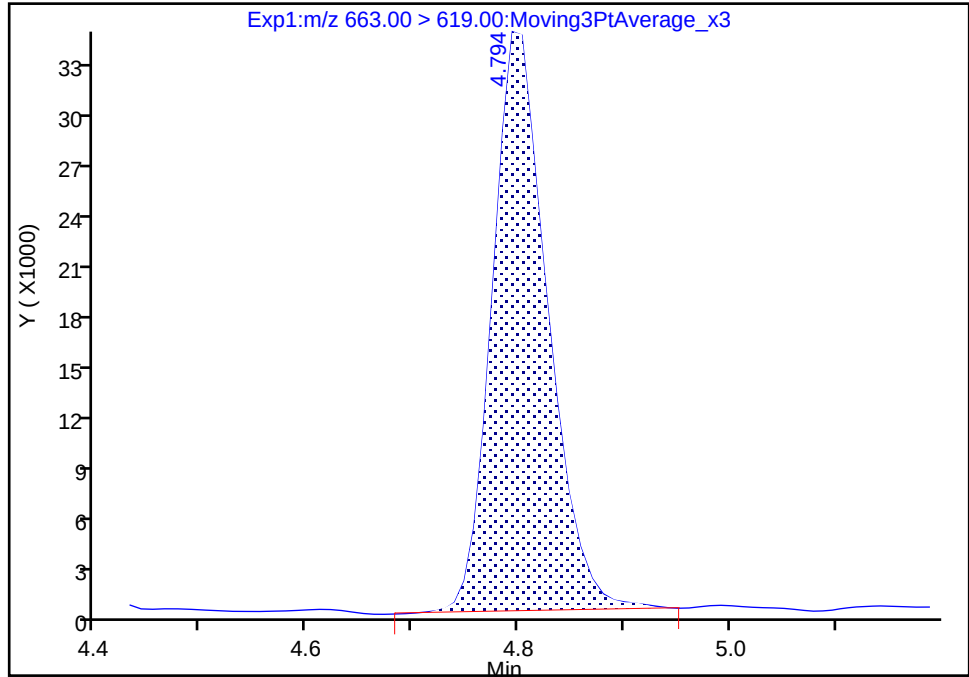
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

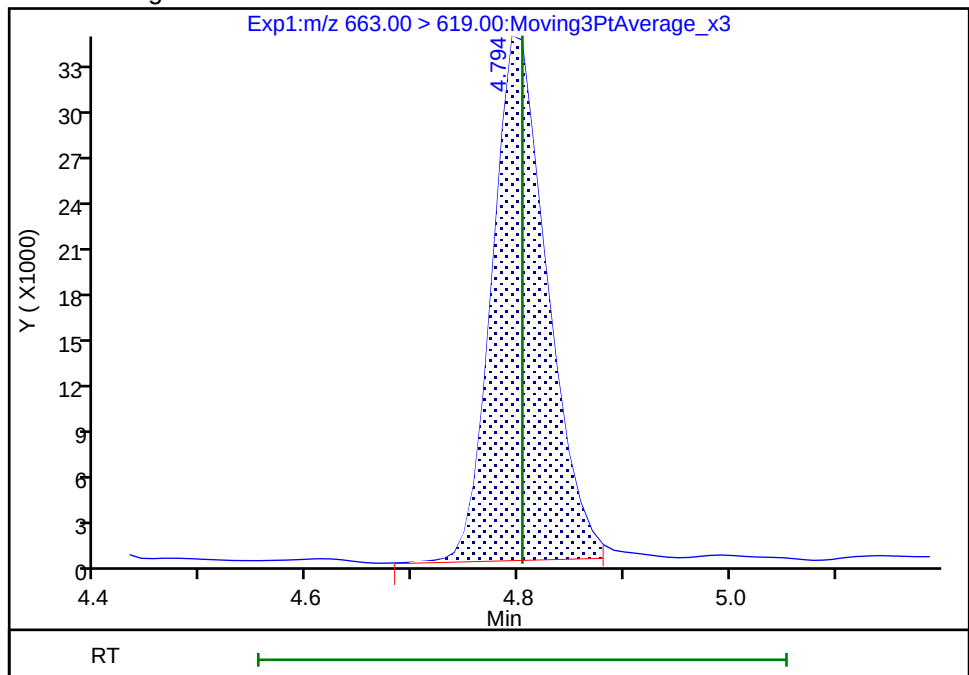
RT: 4.79
Area: 125442
Amount: 0.057131
Amount Units: ng/ml

Processing Integration Results



RT: 4.79
Area: 124081
Amount: 0.056511
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 660 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

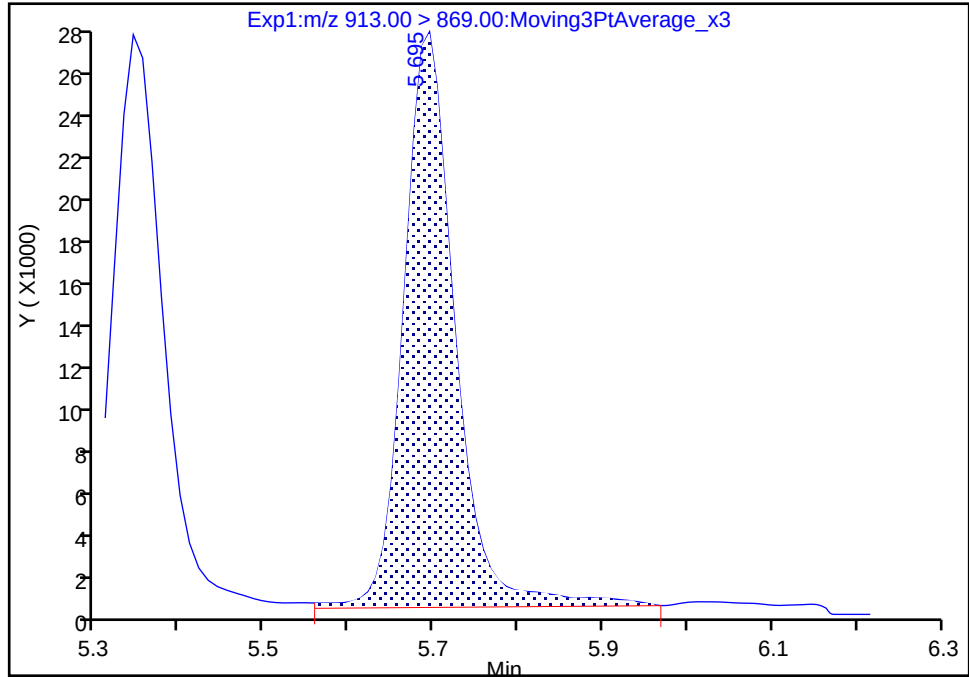
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A05.d
Injection Date: 30-Dec-2022 13:17:39 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

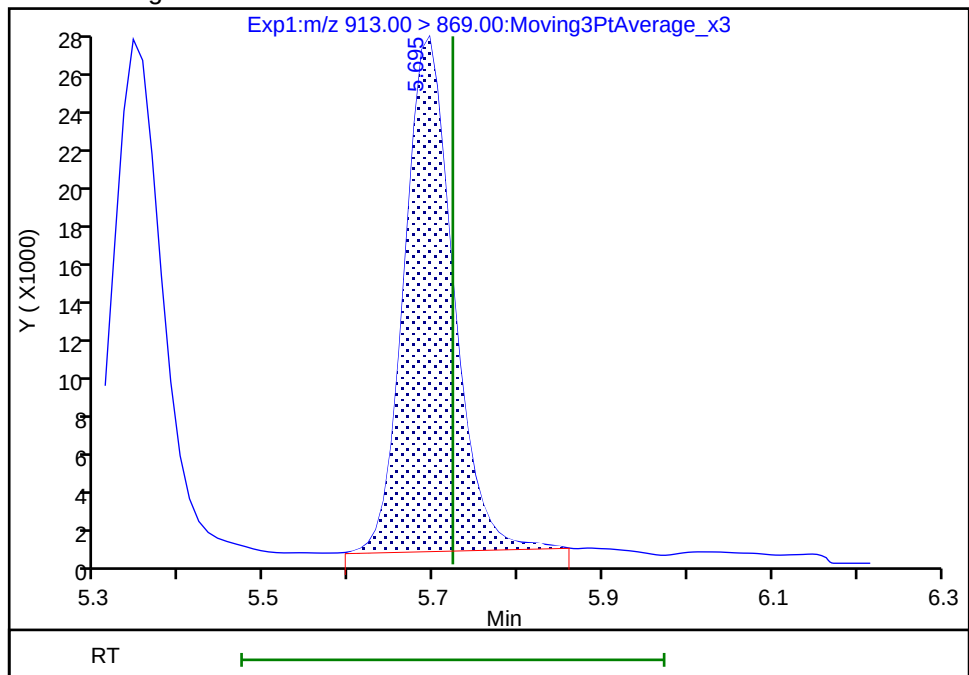
RT: 5.69
Area: 116888
Amount: 0.054553
Amount Units: ng/ml

Processing Integration Results



RT: 5.69
Area: 109014
Amount: 0.050878
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:46:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187177/20 Calibration Date: 12/30/2022 15:20

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9270		0.899	1.00	-10.1	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9736		0.893	1.00	-10.7	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.058		0.817	0.884	-7.6	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.785		0.844	0.934	-9.6	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9813		0.901	1.00	-9.9	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.119		0.786	0.938	-16.2	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9589		0.908	1.00	-9.2	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9395		0.863	1.00	-13.7	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.024		0.826	0.910	-9.3	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.215		0.892	0.942	-5.3	
6:2 FTS	L1ID		2.050		0.908	0.948	-4.2	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.343		0.915	0.952	-3.9	
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9827		0.919	1.00	-8.1	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.065		0.813	0.928	-12.4	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9417		0.908	1.00	-9.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.700		0.901	0.932	-3.3	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8678		0.908	0.960	-5.5	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9926		0.915	1.00	-8.5	
8:2 FTS	AveID	1.617	1.594		0.944	0.958	-1.5	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9505		0.910	1.00	-9.0	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8525		0.979	1.00	-2.1	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6724		0.894	0.964	-7.2	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9385		0.931	1.00	-6.9	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8386		0.937	1.00	-6.3	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.098		0.897	0.942	-4.7	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.016		0.959	1.00	-4.1	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.000		0.992	0.964	2.9	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2823		0.891	0.968	-7.9	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187177/20 Calibration Date: 12/30/2022 15:20
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221230A20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	0.9901		0.977	1.00	-2.3	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1238		0.904	1.00	-9.6	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9230		0.987	1.00	-1.3	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8209		0.997	1.00	-0.3	
13C4 PFBA	Ave	1.122	1.052		1.17	1.25	-6.2	
13C5 PFPeA	Ave	0.8543	0.8299		1.21	1.25	-2.9	
13C3 PFBS	Ave	0.9281	0.8983		1.13	1.16	-3.2	
M2-4:2 FTS	Ave	0.0820	0.0843		1.20	1.17	2.8	
13C2 PFHxA	Ave	0.8951	0.8747		1.22	1.25	-2.3	
13C3 HFPO-DA	Ave	0.1580	0.1567		1.24	1.25	-0.8	
13C4 PFHpA	Ave	0.9206	0.9392		1.28	1.25	2.0	50.0
18O2 PFHxS	Ave	0.6761	0.7073		1.24	1.18	4.6	50.0
M2-6:2 FTS	Ave	0.1134	0.1323		1.39	1.19	16.7	
13C4 PFOA	Ave	1.035	1.083		1.31	1.25	4.7	50.0
13C4 PFOS	Ave	0.4588	0.4497		1.17	1.20	-2.0	50.0
13C5 PFNA	Ave	1.006	1.041		1.29	1.25	3.5	50.0
13C2 PFDA	Ave	1.025	1.103		1.35	1.25	7.6	
M2-8:2 FTS	Ave	0.1387	0.1548		1.34	1.20	11.6	
13C8 FOSA	Ave	0.8403	0.8452		1.26	1.25	0.6	
d3-NMeFOSAA	Ave	0.2087	0.2083		1.25	1.25	-0.2	
13C2 PFUnA	Ave	0.9385	1.008		1.34	1.25	7.4	
d5-NEtFOSAA	Ave	0.2055	0.2070		1.26	1.25	0.7	
13C2 PFDoA	Ave	0.9562	0.9898		1.29	1.25	3.5	
13C2 PFTeDA	Ave	0.8270	0.9904		1.50	1.25	19.8	
13C2 PFHxDA	Ave	1.022	1.175		1.44	1.25	14.9	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-Dec-2022 15:20:15 ALS Bottle#: 17 Worklist Smp#: 20
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053865-020 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:51:33 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 08:48:52

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	2.094	2.076	0.018	0.611	3005483	1.17		93.8	10989	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.000	2228790	0.8989		89.9	167	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.389	2.387	0.002	0.697	2371464	1.21		97.1	3190	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.402	2.387	0.015	1.006	1847172	0.8934		89.3	48.4	
D 47 13C3 PFBS										
301.90 > 80.00	2.415	2.400	0.015	0.705	2387208	1.13		96.8	133193	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.415	2.400	0.015	1.000	1920033	0.8172	Target=2.09	92.4	1757	
298.90 > 99.00	2.415	2.400	0.015	1.000	905715		2.12(1.04-3.13)		501	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.692	2.689	0.003	1.000	501494	0.8443		90.4	2765	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.692	2.689	0.003	0.786	225107	1.20		103	197	
D 7 13C2 PFHxA										
315.00 > 270.00	2.728	2.725	0.003	0.796	2499514	1.22		97.7	3686	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.728	2.725	0.003	1.000	1962304	0.9006	Target=14.25	90.1	350	
313.00 > 119.00	2.728	2.725	0.003	1.000	141528		13.87(7.12-21.37)		265	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.728	2.737	-0.009	0.886	1696862	0.7859	Target=3.04	83.8	1304	
349.00 > 99.00	2.728	2.737	-0.009	0.886	600086		2.83(1.52-4.56)		978	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.838	2.835	0.003	1.000	343417	0.9081		90.8	2746	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.838	2.835	0.003	0.828	447691	1.24		99.2	2618	
D 11 18O2 PFHxS										
403.00 > 84.00	3.080	3.088	-0.008	0.899	1911794	1.24		105	2260	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.080	3.088	-0.008	1.000	1506839	0.8258	Target=3.66	90.7	1803	
399.00 > 99.00	3.080	3.088	-0.008	1.000	446353		3.38(1.83-5.49)		573	
D 9 13C4 PFHpA										
367.00 > 322.00	3.080	3.099	-0.019	0.899	2683663	1.28		102	6363	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.080	3.099	-0.019	1.000	2016959	0.8629	Target=3.97	86.3	329	
363.00 > 169.00	3.080	3.099	-0.019	1.000	538767		3.74(1.98-5.95)		1196	
77 DONA										
377.00 > 251.00	3.125	3.132	-0.007	0.836	5049906	0.8921	Target=3.16	94.7	4077	
377.00 > 85.00	3.125	3.132	-0.007	0.836	1574129		3.21(1.58-4.73)		1637	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.417	3.439	-0.022	0.997	359054	1.39		117	815	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.417	3.439	-0.022	1.000	587683	0.9082		95.8	337	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.417	3.439	-0.022	0.914	1313891	0.9152	Target=5.14	96.1	2478	
449.00 > 99.00	3.417	3.439	-0.022	0.914	258695		5.08(2.57-7.72)		1032	
D 14 13C4 PFOA										
417.00 > 372.00	3.425	3.448	-0.023	1.000	3095600	1.31		105	5197	
* 62 13C2 PFOA										
415.00 > 370.00	3.425	3.448	-0.023		2857411	1.25			2556	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.425	3.448	-0.023	1.000	2433753	0.9193	Target=2.79	91.9	167	
413.00 > 169.00	3.425	3.448	-0.023	1.000	843820		2.88(1.40-4.19)		1282	
D 18 13C4 PFOS										
503.00 > 80.00	3.739	3.764	-0.025	1.091	1228341	1.17		98.0	2132	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.739	3.764	-0.025	1.000	1016256	0.8130	Target=5.11	87.6	692	M
499.00 > 99.00	3.739	3.764	-0.025	1.000	234463		4.33(2.55-7.66)		514	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.758	3.783	-0.025	1.000	2240176	0.9078	Target=8.55	90.8	405	
463.00 > 169.00	3.758	3.783	-0.025	1.000	269150		8.32(4.28-12.83)		1638	
D 19 13C5 PFNA										
468.00 > 423.00	3.758	3.783	-0.025	1.097	2973527	1.29		103	6138	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.896	3.928	-0.032	1.042	2586330	0.9015		96.7	4015	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.027	4.050	-0.023	1.077	856339	0.9076	Target=2.53	94.5	2496	
549.00 > 99.00	4.027	4.050	-0.023	1.077	343543		2.49(1.27-3.80)		1320	
D 23 13C2 PFDA										
515.00 > 470.00	4.054	4.081	-0.027	1.184	3152621	1.35		108	3871	

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	4.054	4.081	-0.027	1.000	2503438	0.9153	Target=10.26	91.5	581	
513.00 > 169.00	4.054	4.081	-0.027	1.000	238072		10.52(5.13-15.38)		553	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.064	4.093	-0.029	1.187	423751	1.34		112	1046	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.064	4.093	-0.029	1.000	540219	0.9441		98.5	2259	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.119	4.150	-0.031	1.000	1836340	0.9098		91.0	1947	
D 21 13C8 FOSA										
506.00 > 78.00	4.119	4.150	-0.031	1.203	2415042	1.26		101	2727	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.199	4.228	-0.029	1.226	595154	1.25		99.8	548	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.199	4.228	-0.029	1.000	405899	0.9794		97.9	700	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.290	4.331	-0.041	1.147	666325	0.8944	Target=2.51	92.8	1936	
599.00 > 99.00	4.290	4.331	-0.041	1.147	262796		2.54(1.25-3.76)		1819	
D 30 13C2 PFUnA										
565.00 > 520.00	4.324	4.353	-0.029	1.262	2880827	1.34		107	3641	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.324	4.353	-0.029	1.000	2162835	0.9312	Target=9.88	93.1	753	
563.00 > 169.00	4.324	4.353	-0.029	1.000	201612		10.73(4.94-14.82)		1045	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.335	4.365	-0.030	1.000	396719	0.9367		93.7	1177	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.335	4.365	-0.030	1.266	591373	1.26		101	1094	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.414	4.454	-0.040	1.181	3968331	0.8973		95.3	5572	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.561	4.591	-0.030	1.000	2297916	0.9586	Target=7.77	95.9	317	
613.00 > 169.00	4.561	4.591	-0.030	1.000	297790		7.72(3.89-11.66)		2298	
D 36 13C2 PFDaA										
615.00 > 570.00	4.561	4.591	-0.030	1.332	2828130	1.29		104	3116	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.574	4.612	-0.038	1.125	341212	0.99		103	1285	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.735	4.776	-0.041	1.266	280929	0.8913	Target=0.50	92.1	1752	
699.00 > 99.00	4.735	4.776	-0.041	1.266	546158		0.51(0.25-0.76)		3088	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.771	4.804	-0.033	1.046	2240203	0.9772	Target=5.21	97.7	180	M
663.00 > 169.00	4.771	4.804	-0.033	1.046	382243		5.86(2.60-7.81)		1249	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.965	5.012	-0.047	1.000	280317	0.9044	Target=0.89	90.4	1615	
713.00 > 219.00	4.955	5.012	-0.057	0.998	315854		0.89(0.44-1.33)		2472	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.965	5.012	-0.047	1.450	2830013	1.50		120	5446	

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	5.325	5.367	-0.042	1.002	2478236	0.9867	Target=5.65	98.7	178	
813.00 > 169.00	5.325	5.367	-0.042	1.002	396357		6.25(2.82-8.47)		2111	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.314	5.367	-0.053	1.551	3356128	1.44		115	3458	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.670	5.722	-0.052	1.067	2204042	1.00	Target=6.24	99.7	185	
913.00 > 169.00	5.661	5.722	-0.061	1.065	331410		6.65(3.12-9.36)		747	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

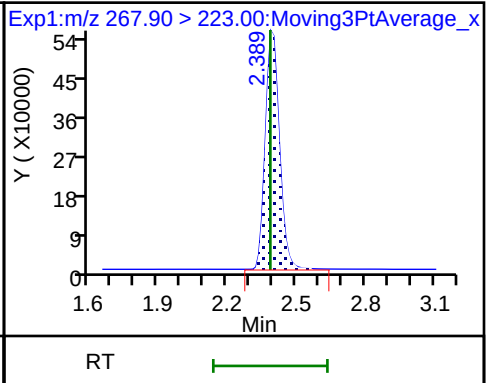
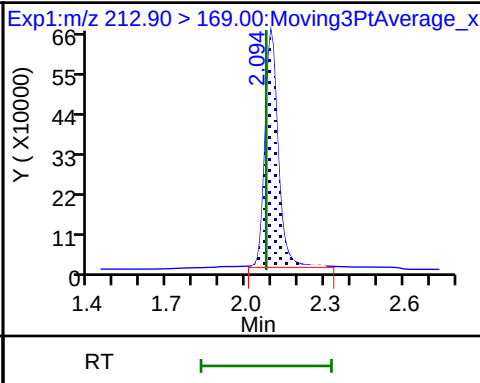
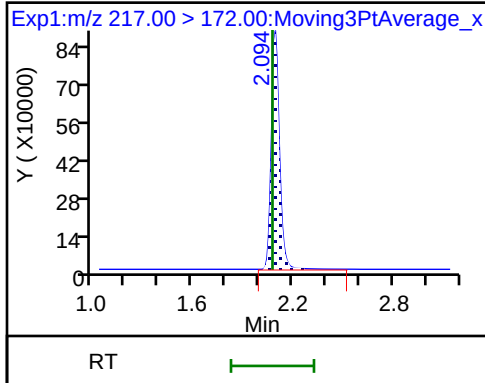
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

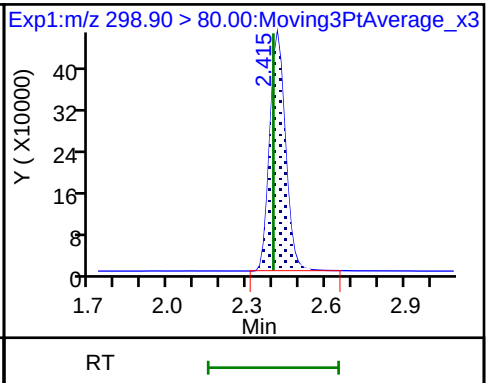
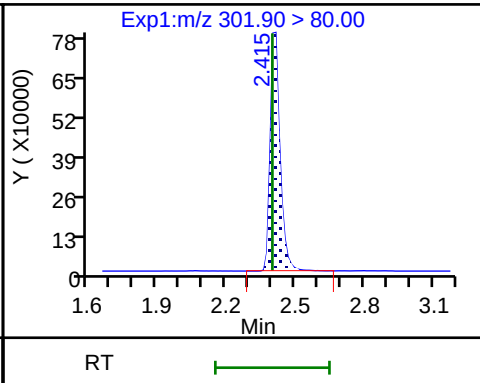
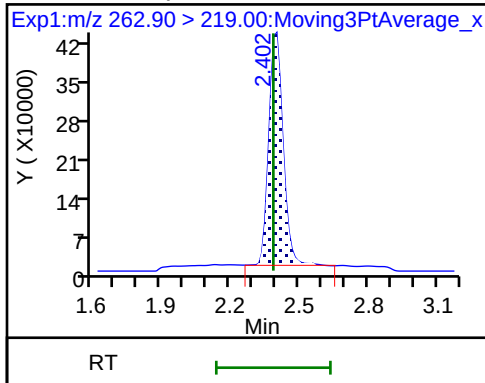
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

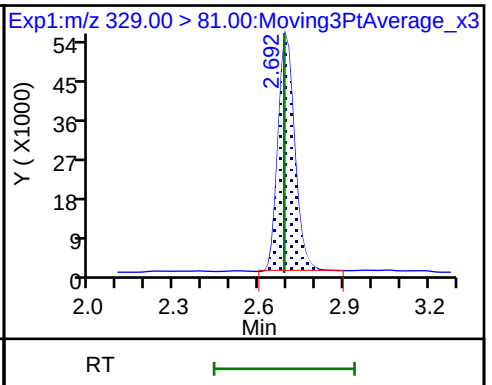
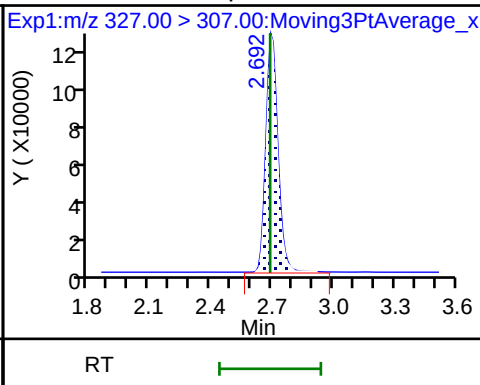
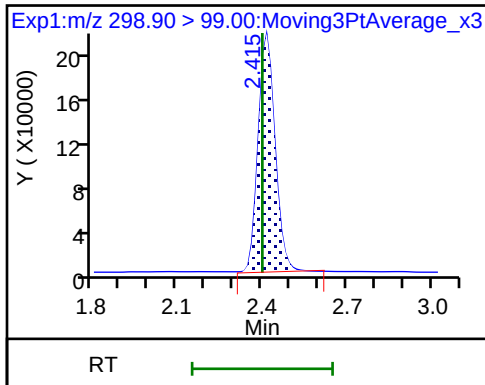
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

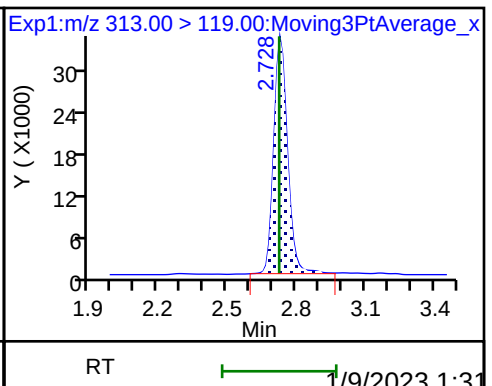
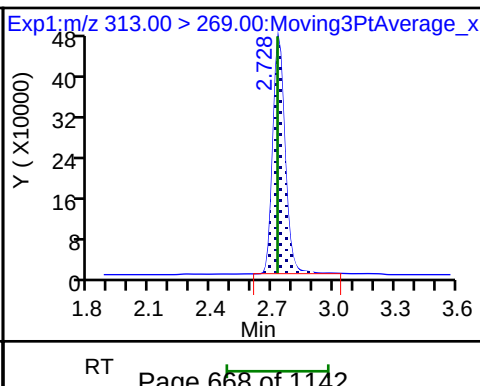
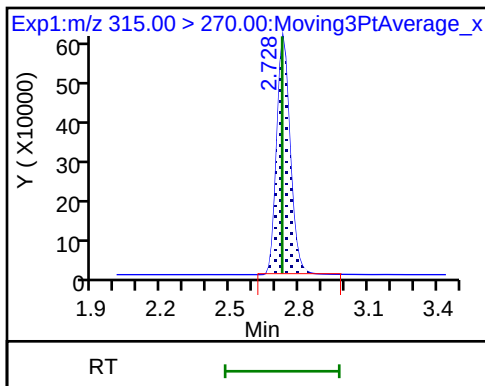
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

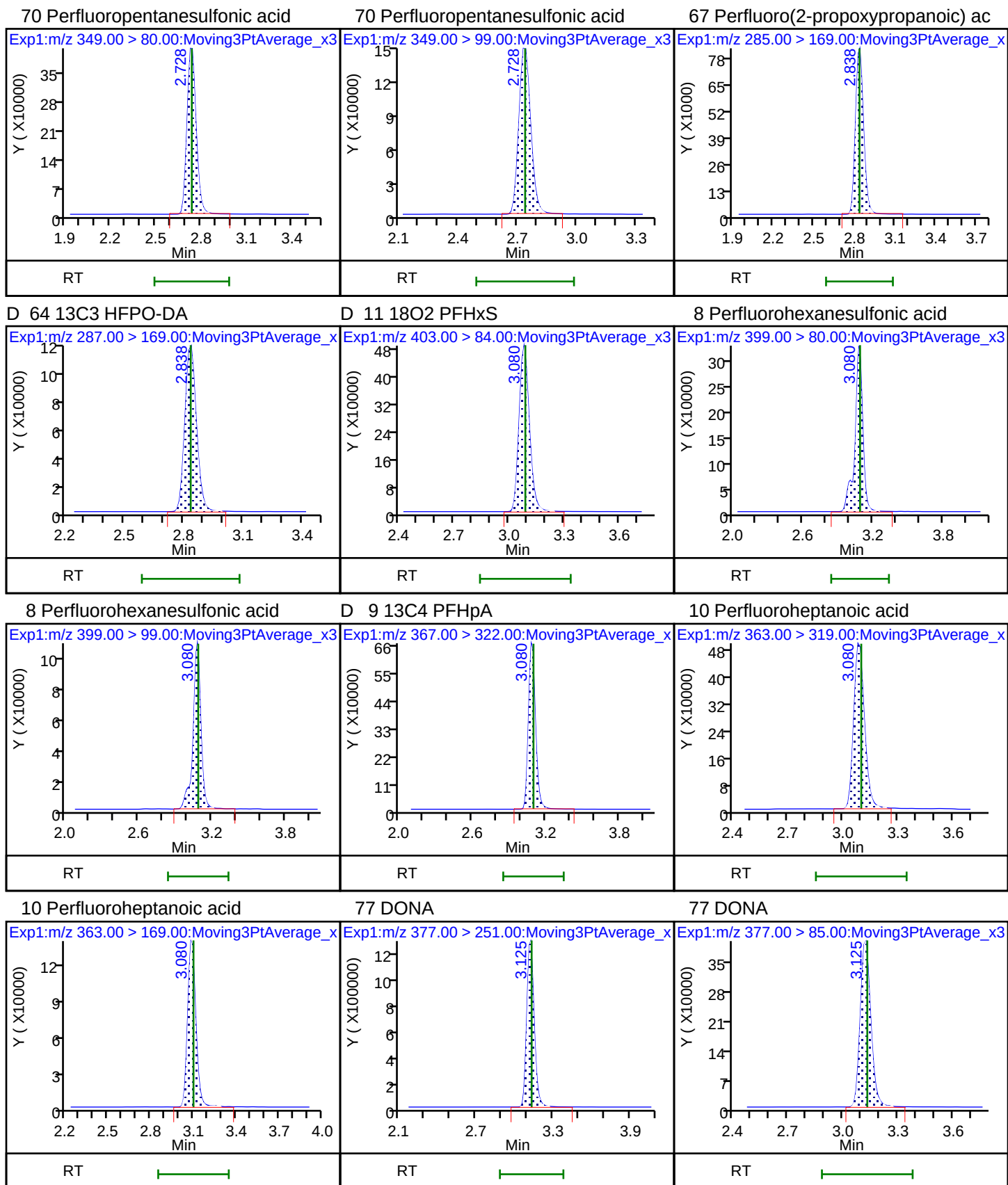


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

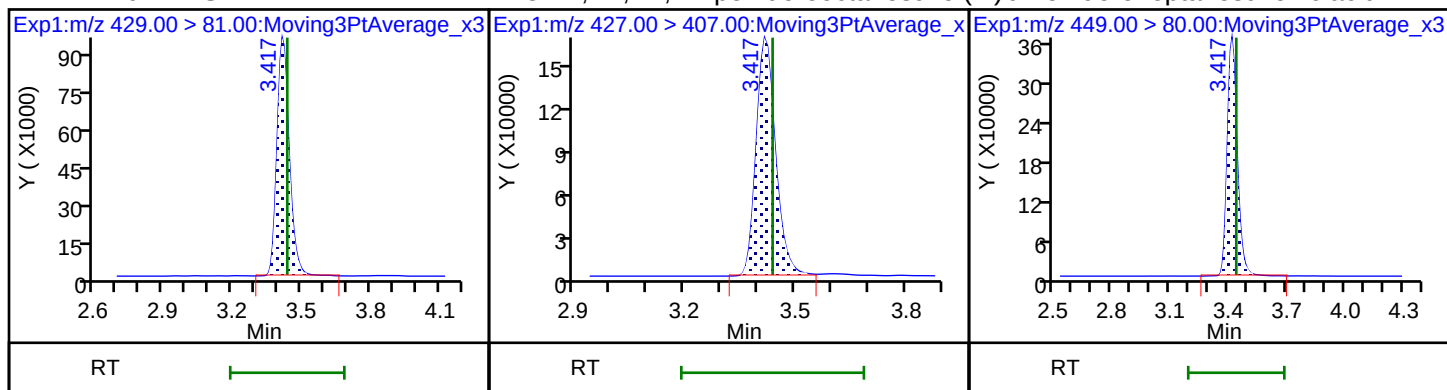
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

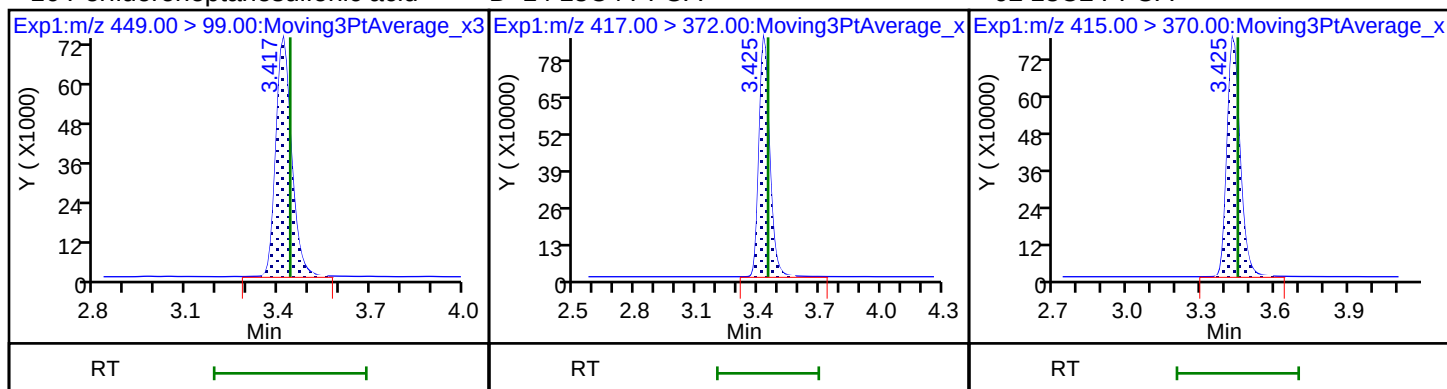
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

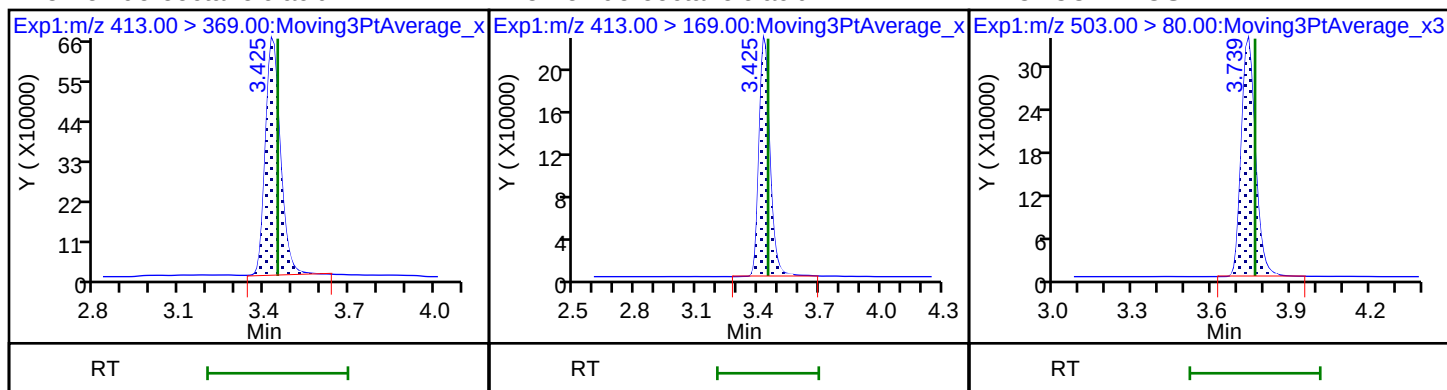
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

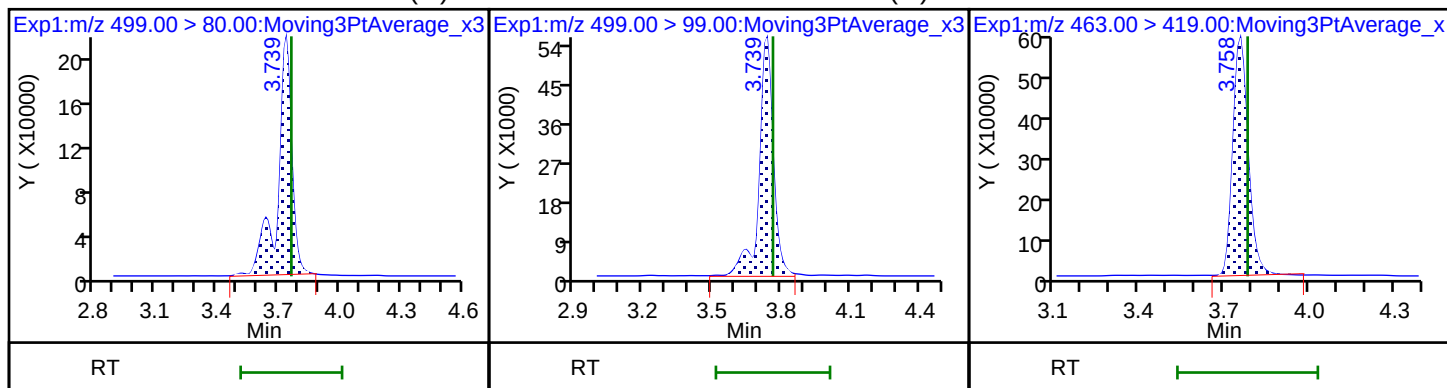
D 18 13C4 PFOS

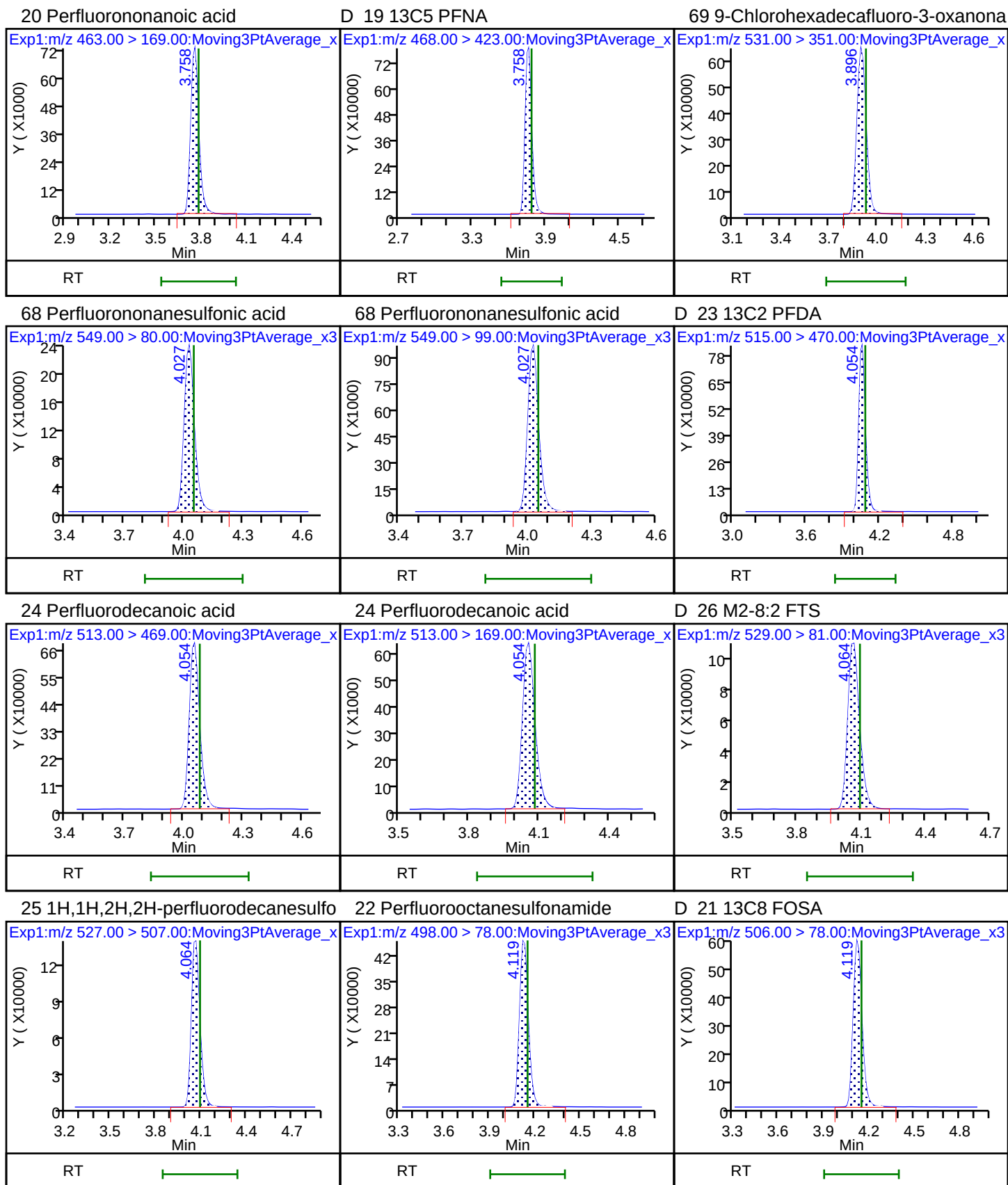


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

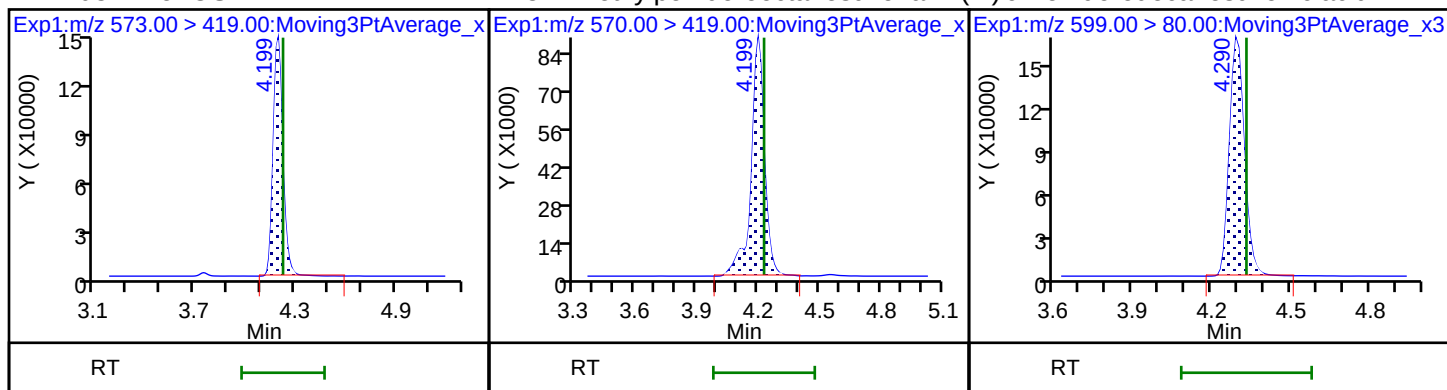
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

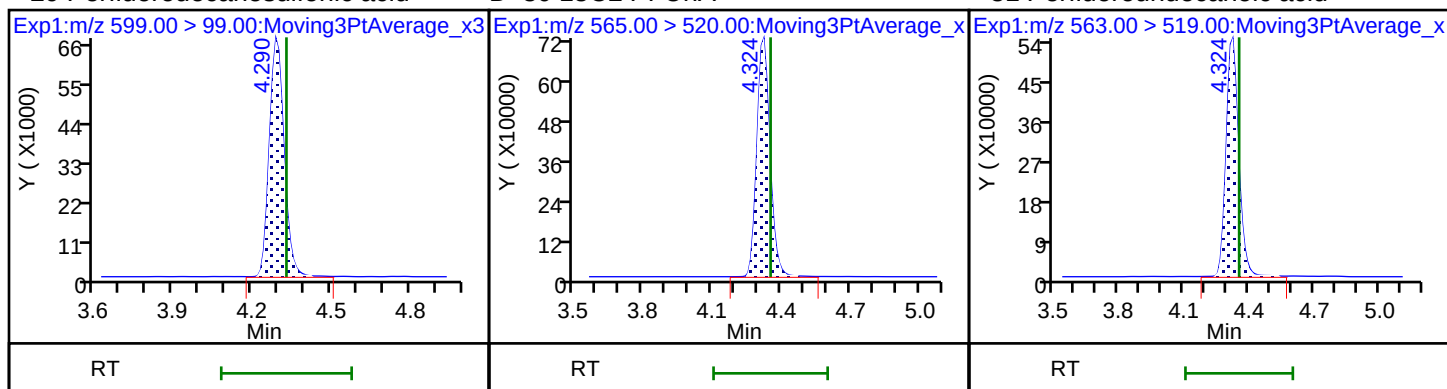
28 N-methylperfluorooctanesulfonami (M29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

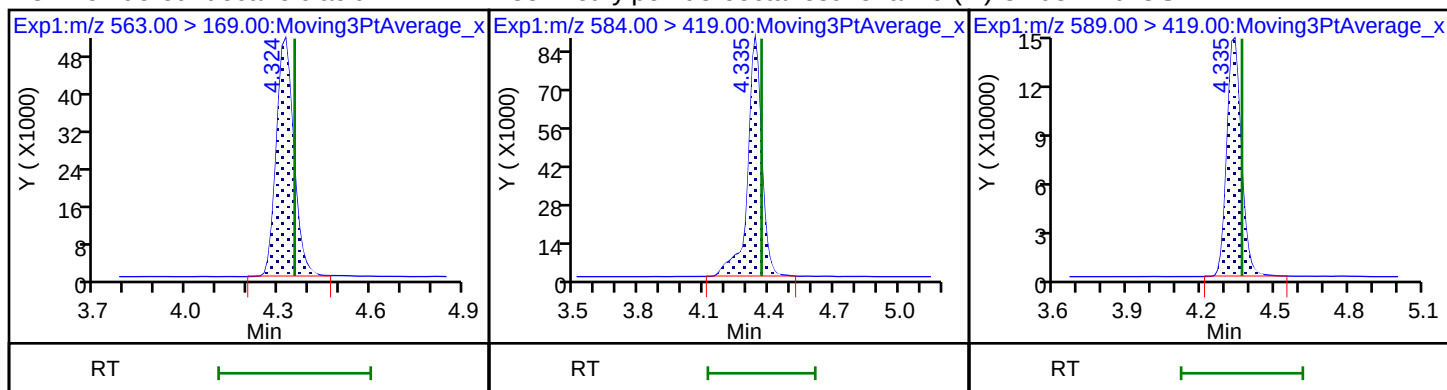
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

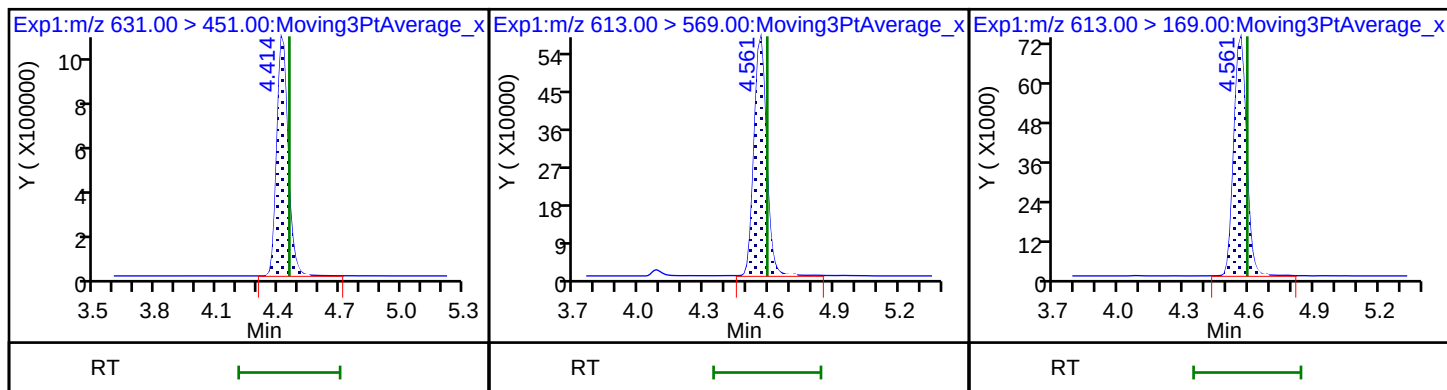
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

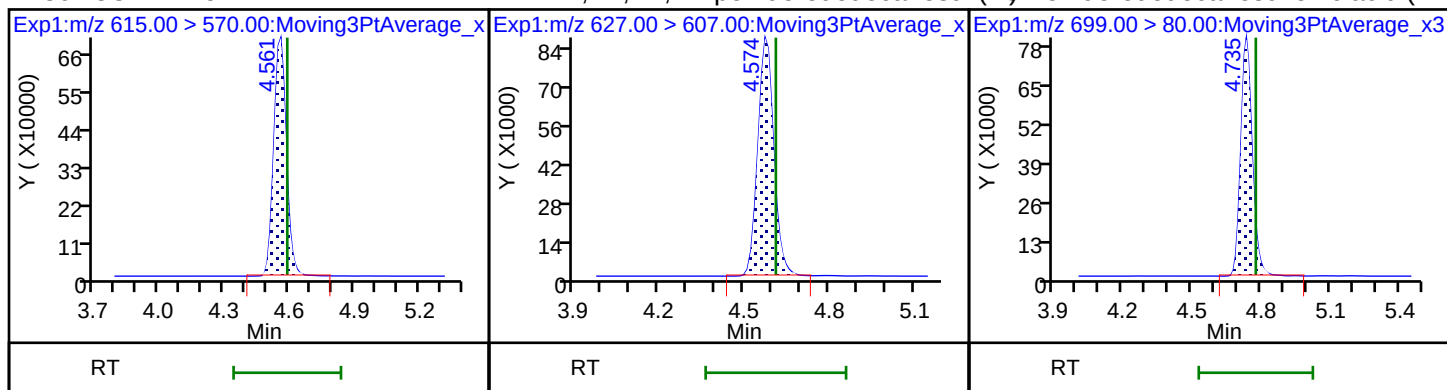
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

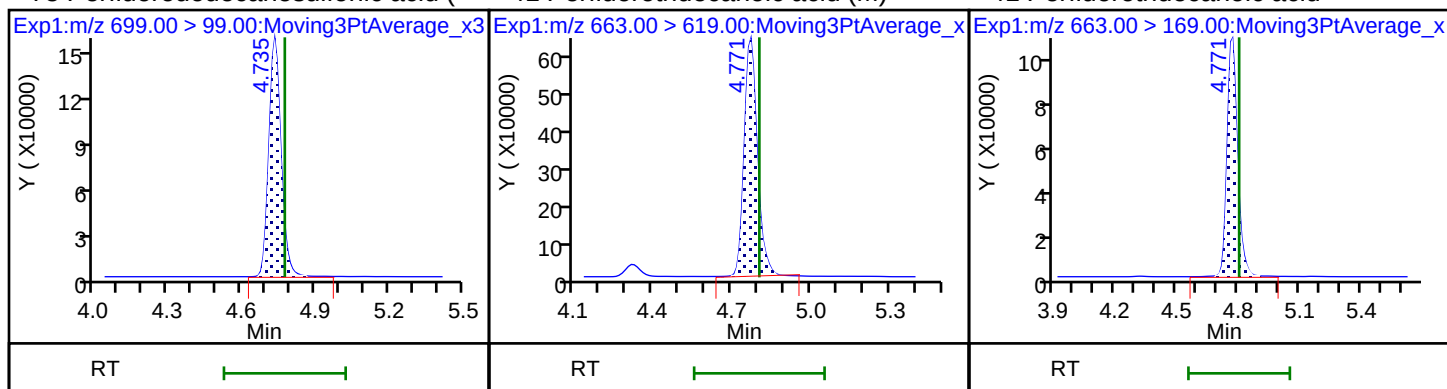
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

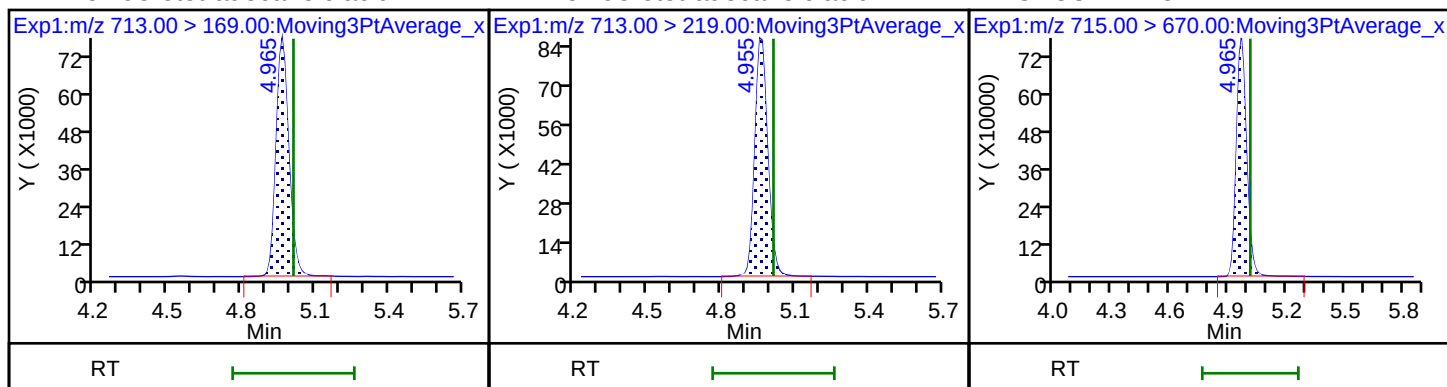
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

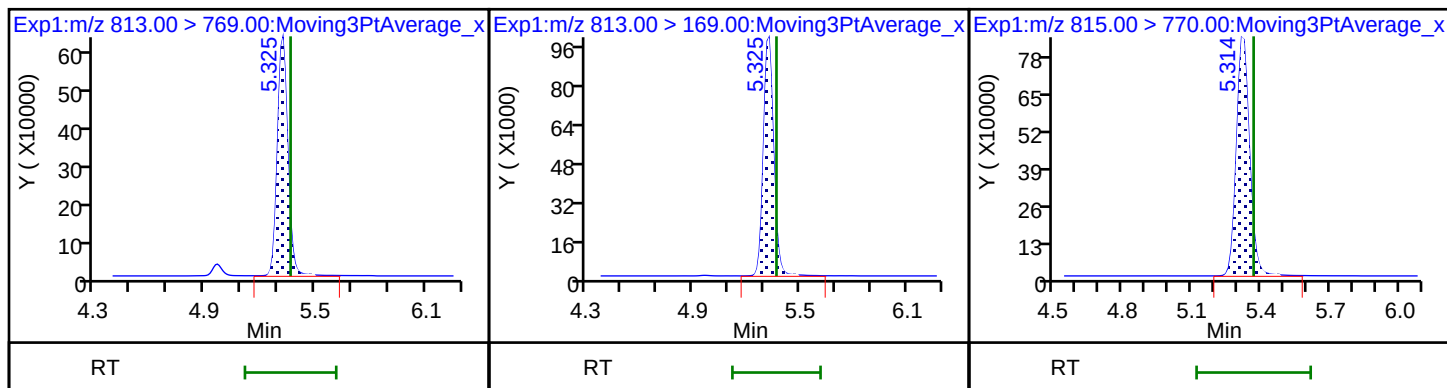
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

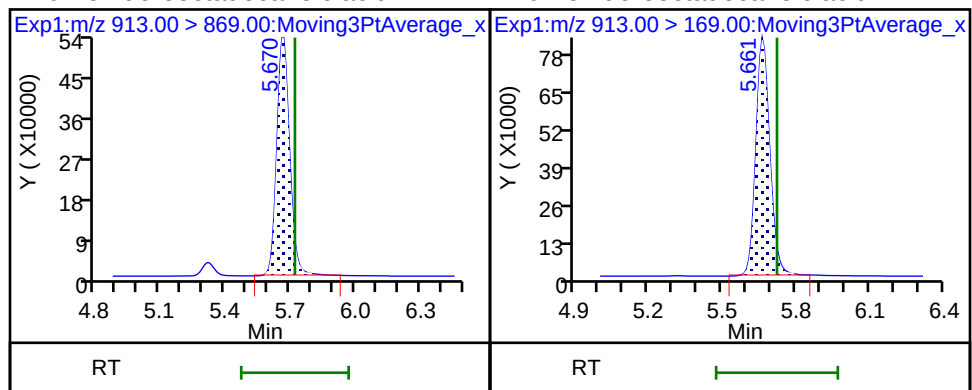
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17 Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

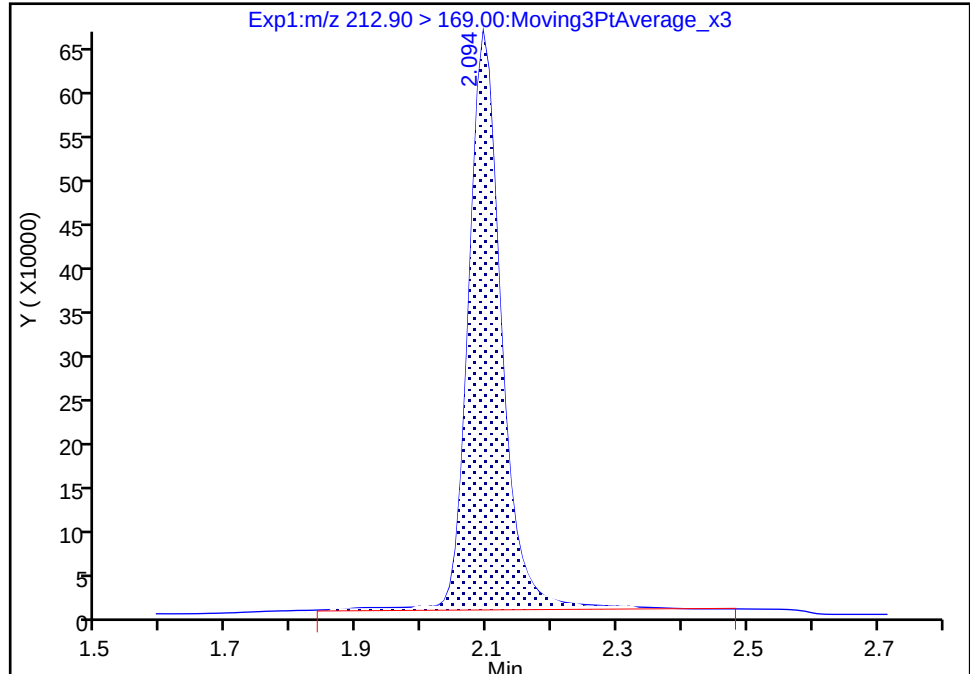
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

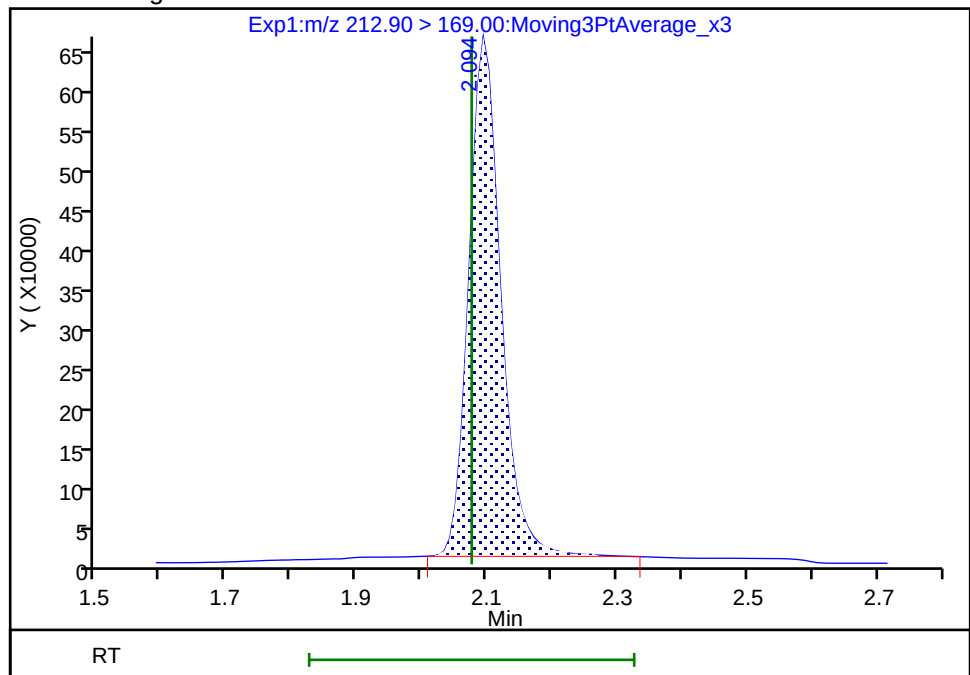
RT: 2.09
Area: 2313272
Amount: 0.932999
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2228790
Amount: 0.898925
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:47:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

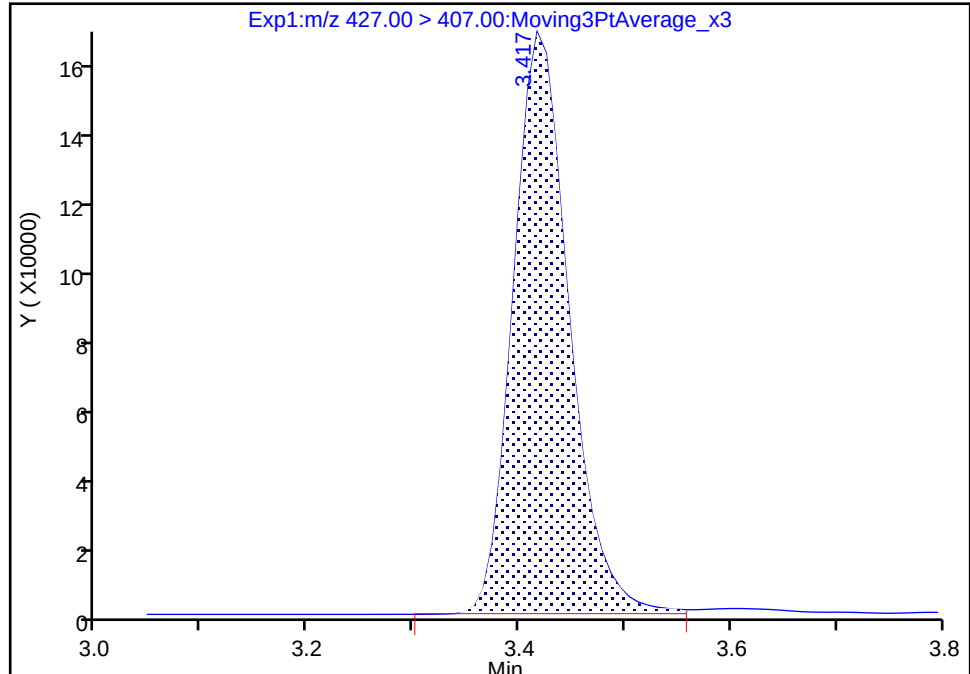
Detector: EXP1

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

Signal: 1

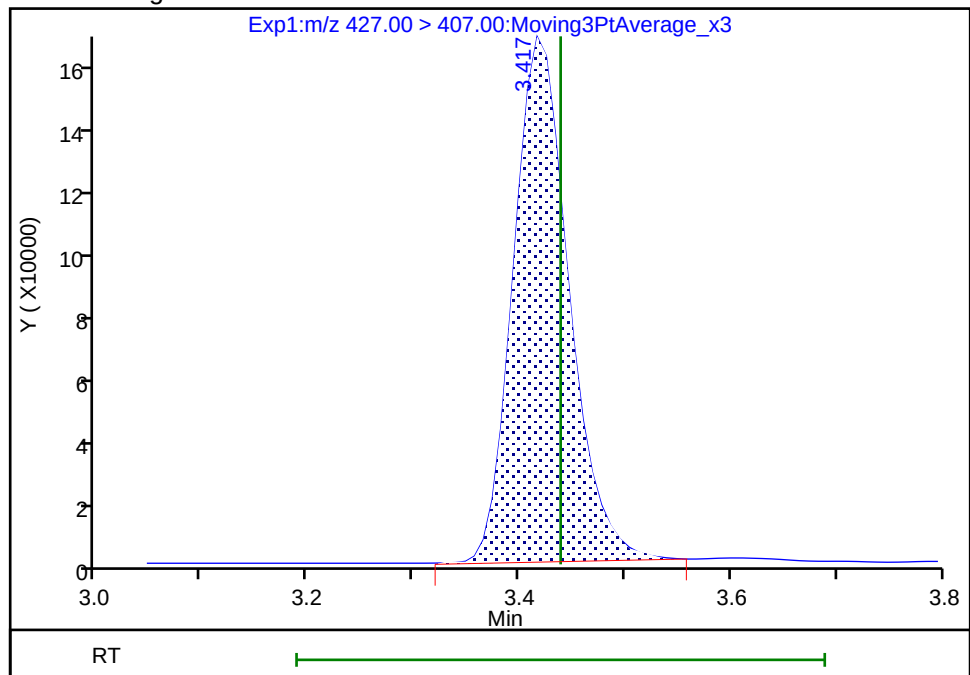
RT: 3.42
Area: 597037
Amount: 0.922855
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 587683
Amount: 0.908211
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:47:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

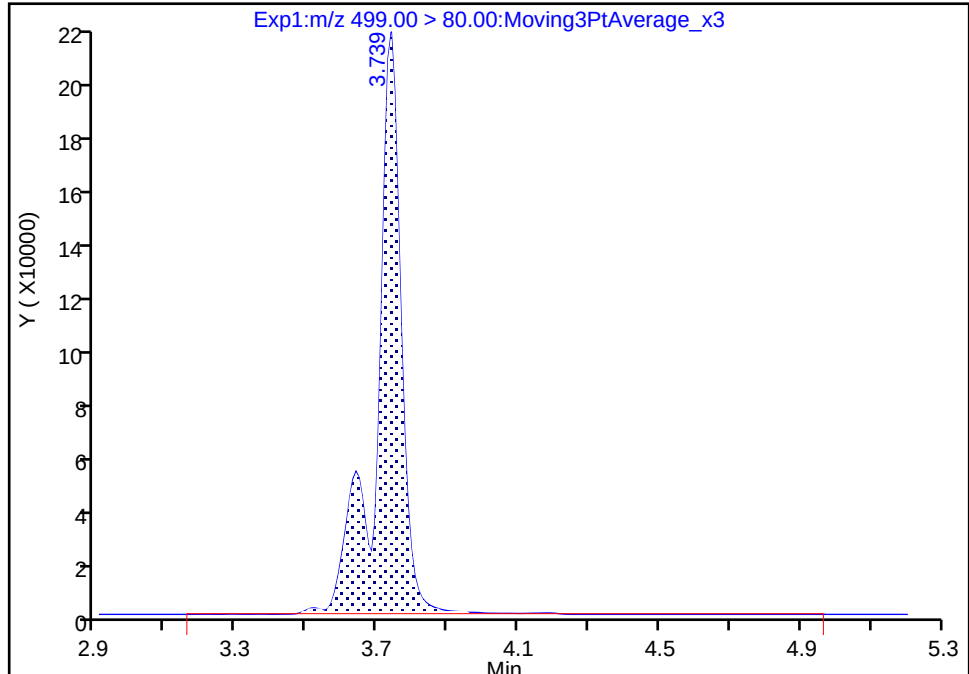
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d
Injection Date: 30-Dec-2022 15:20:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

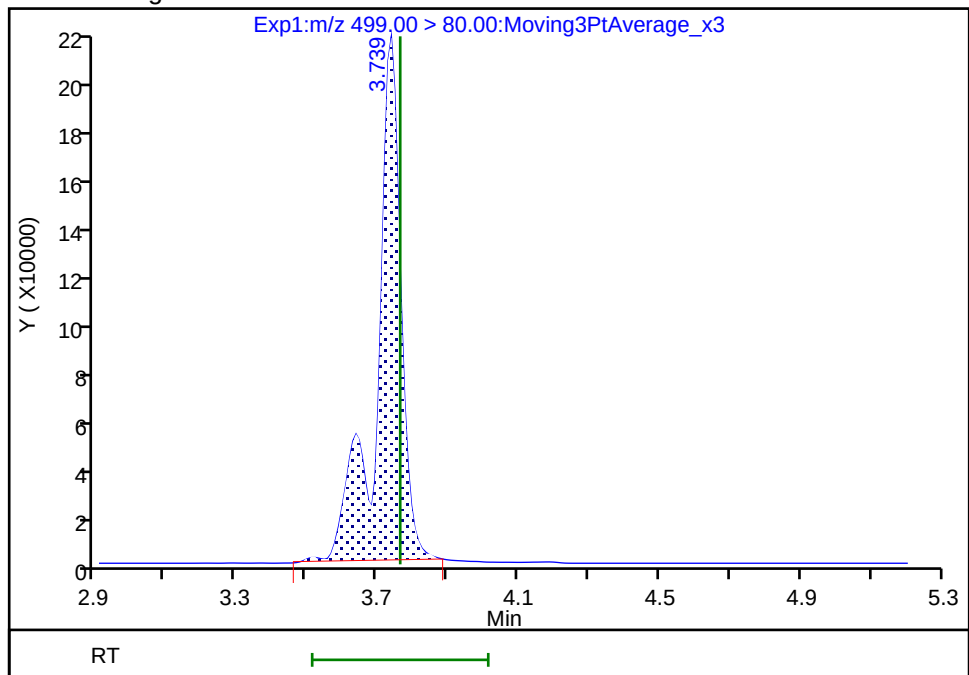
RT: 3.74
Area: 1053095
Amount: 0.842428
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 1016256
Amount: 0.812959
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

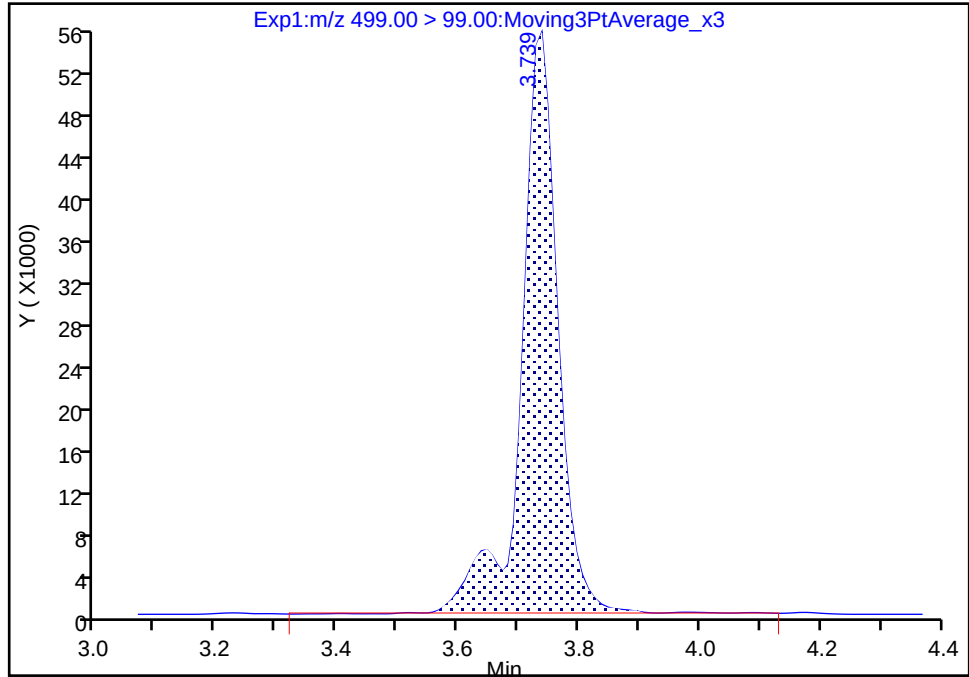
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d
Injection Date: 30-Dec-2022 15:20:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

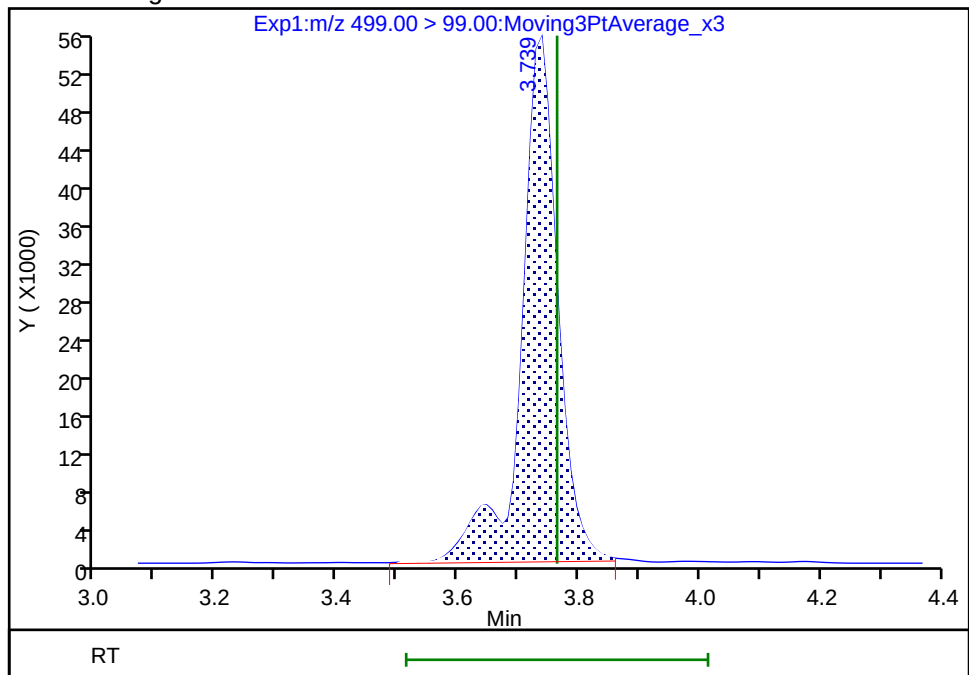
RT: 3.74
Area: 237167
Amount: 0.842428
Amount Units: ng/ml

Processing Integration Results



RT: 3.74
Area: 234463
Amount: 0.812959
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 678 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

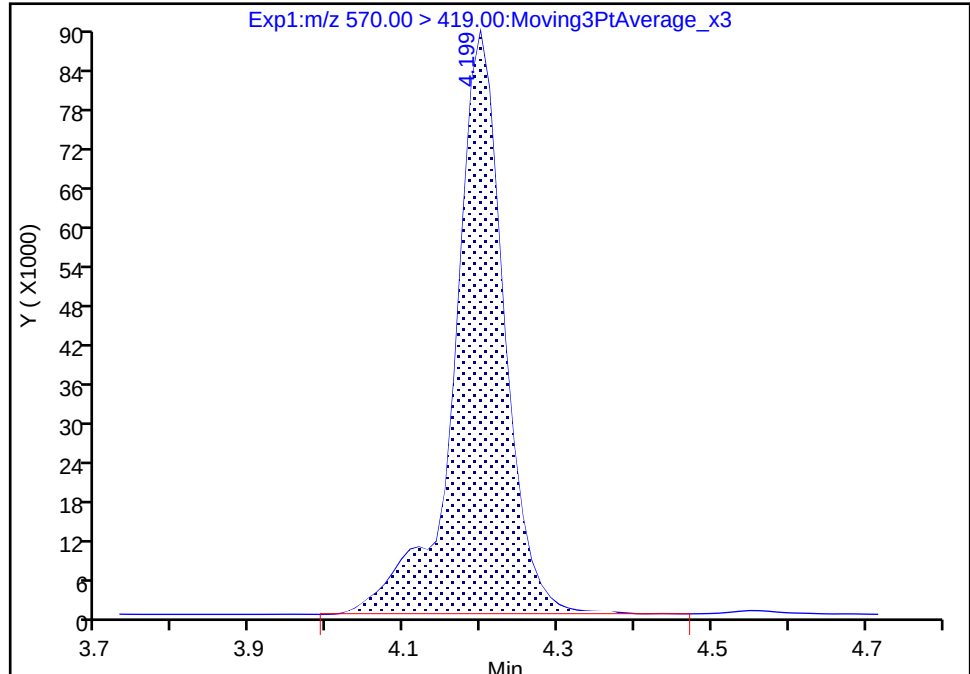
Detector: EXP1

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

Signal: 1

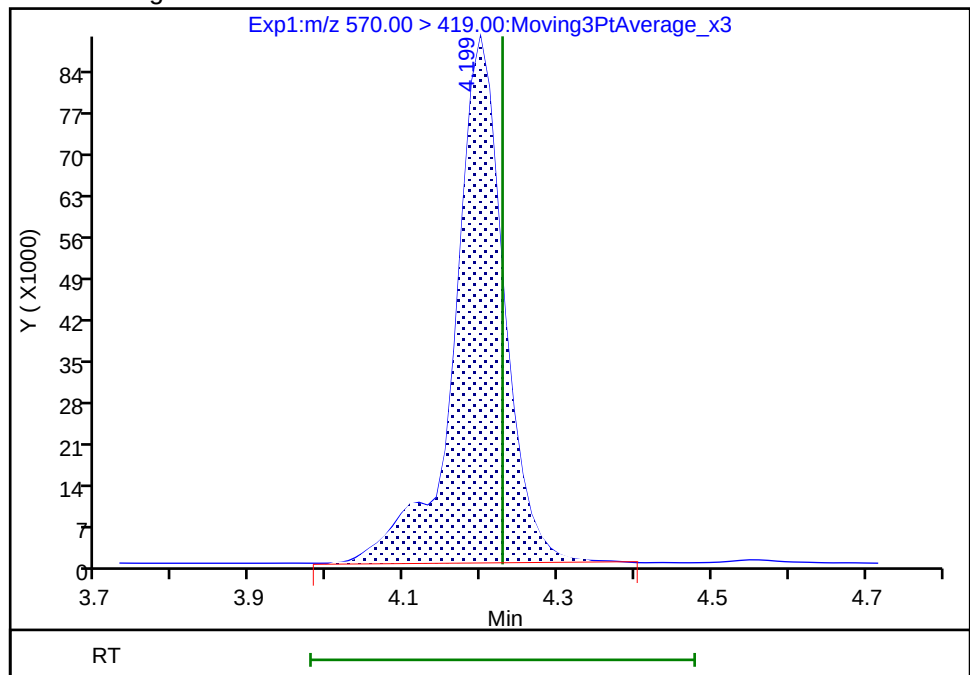
RT: 4.20
Area: 407440
Amount: 0.983143
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 405899
Amount: 0.979381
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

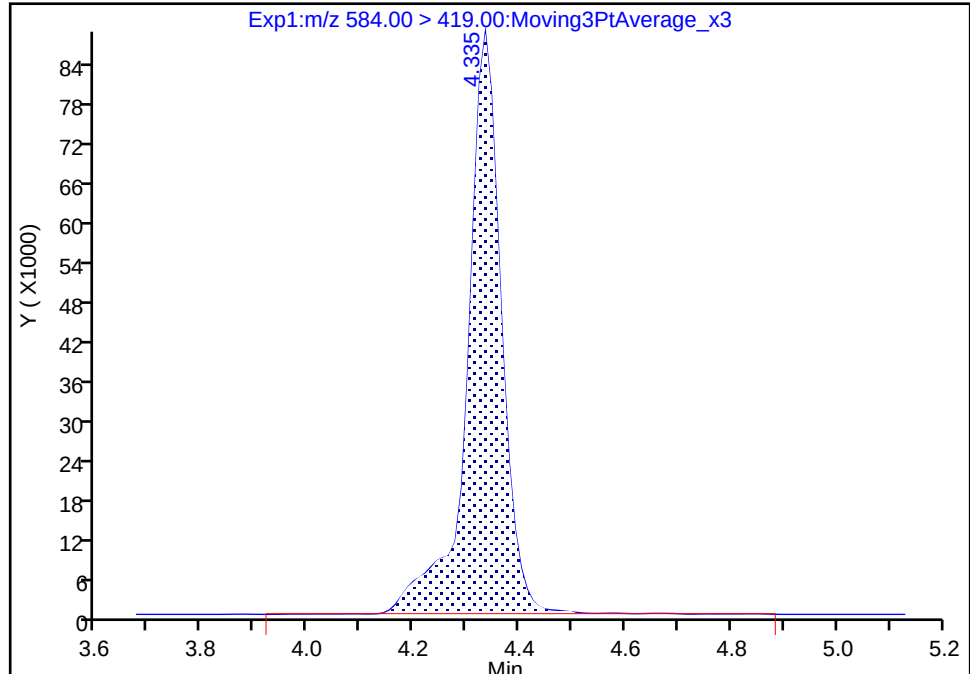
EXP1

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

Signal: 1

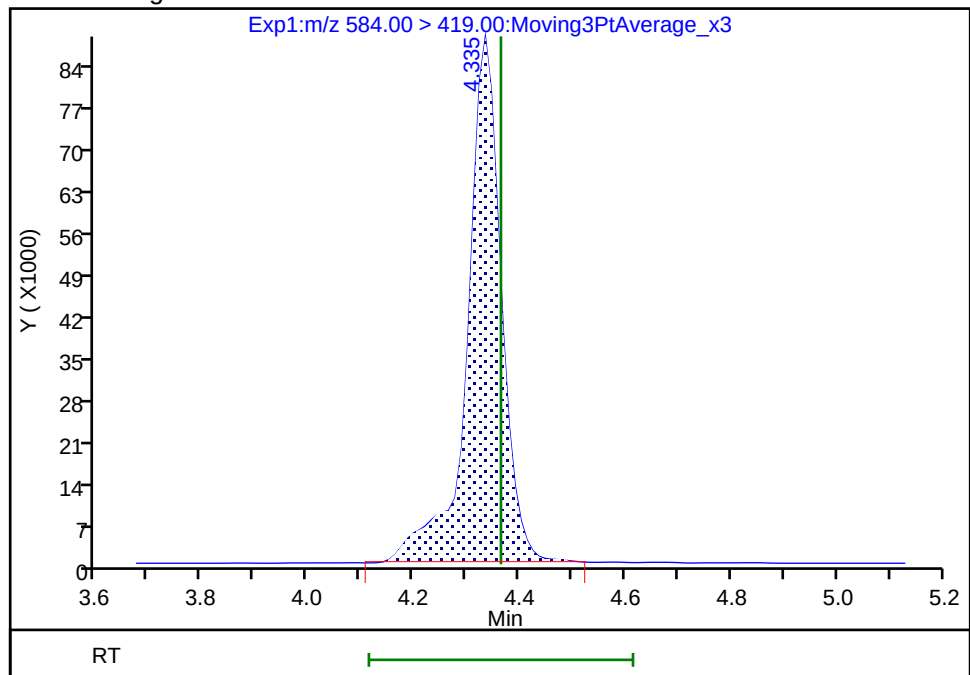
RT: 4.34
Area: 402437
Amount: 0.950171
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 396719
Amount: 0.936670
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d

Injection Date: 30-Dec-2022 15:20:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

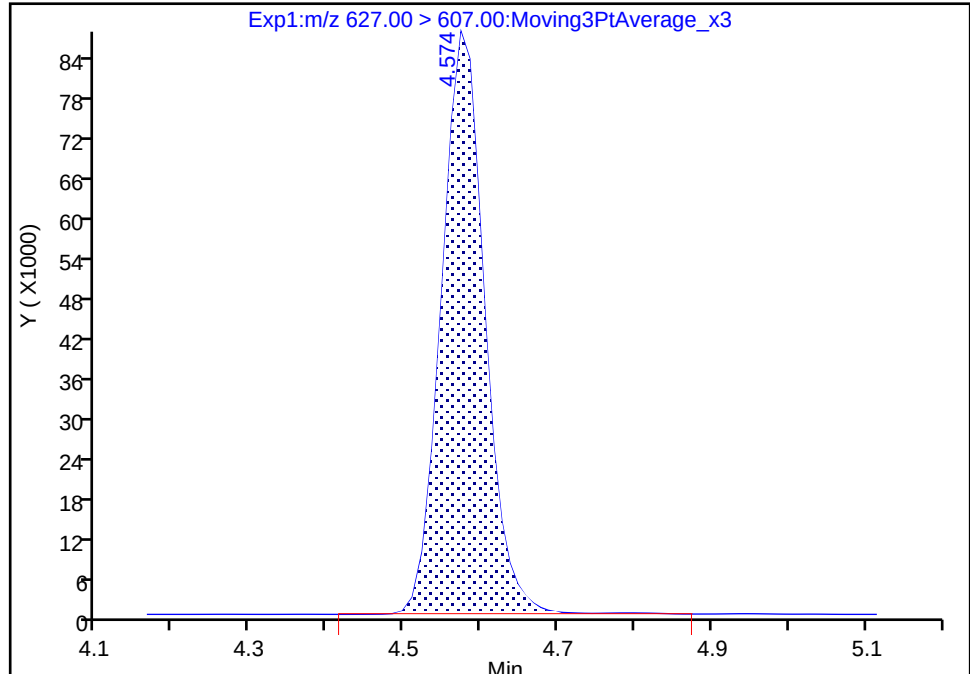
Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

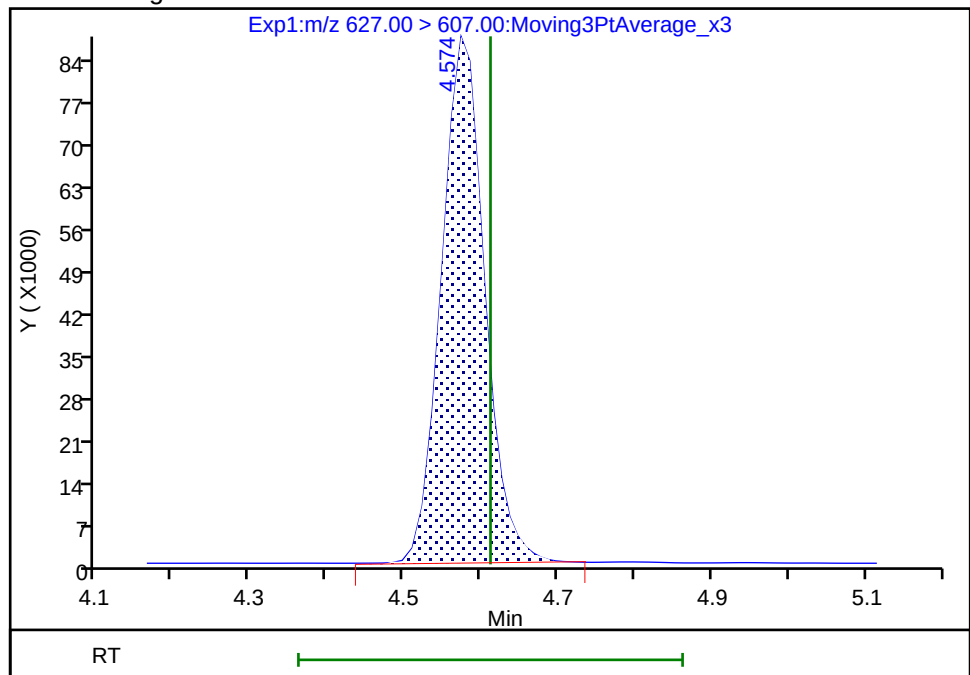
RT: 4.57
Area: 343770
Amount: 0.999779
Amount Units: ng/ml

Processing Integration Results



RT: 4.57
Area: 341212
Amount: 0.992340
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

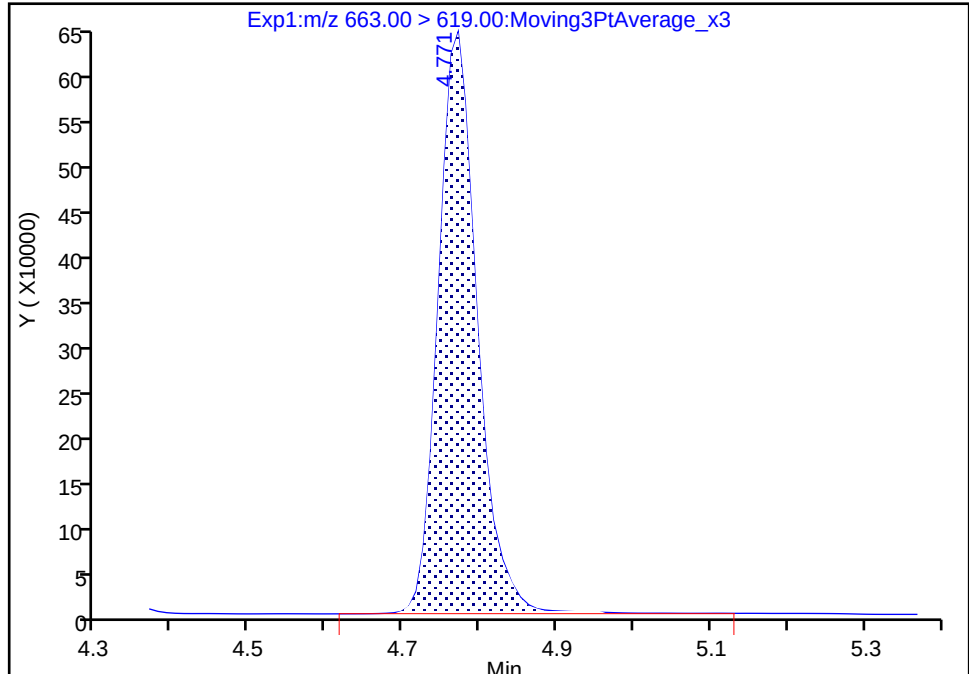
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A20.d
Injection Date: 30-Dec-2022 15:20:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

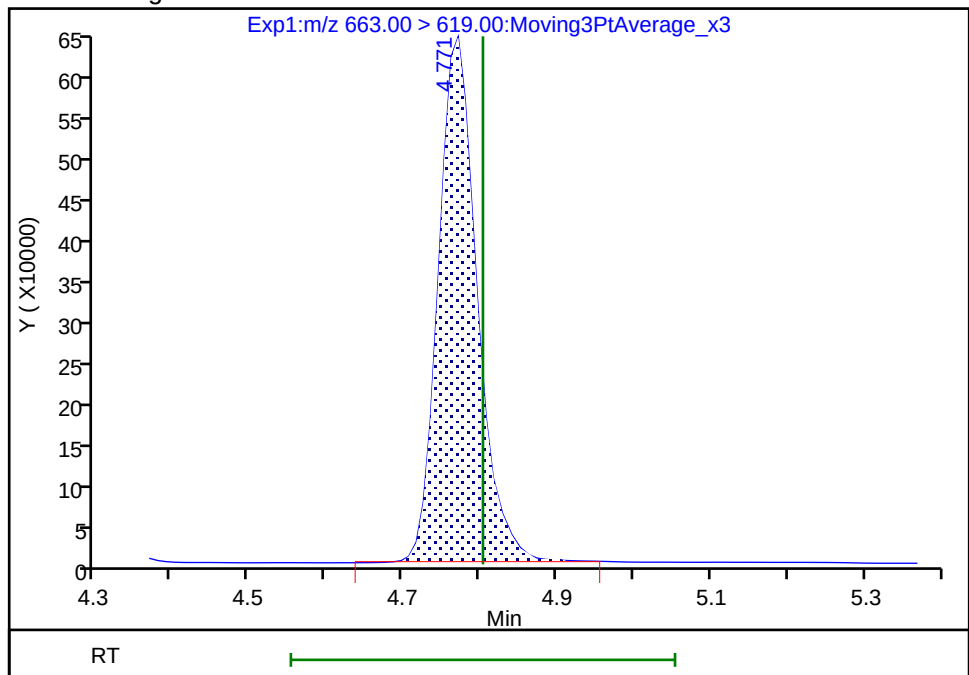
RT: 4.77
Area: 2257312
Amount: 0.984680
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 2240203
Amount: 0.977217
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:48:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187177/31 Calibration Date: 12/30/2022 16:50

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230A31.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9251		2.24	2.50	-10.3	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9754		2.24	2.50	-10.5	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.024		1.98	2.21	-10.5	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.882		2.18	2.34	-6.5	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.996		2.29	2.50	-8.6	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.208		2.12	2.35	-9.5	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9707		2.30	2.50	-8.1	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.030		2.08	2.28	-8.7	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9797		2.25	2.50	-10.0	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.212		2.23	2.36	-5.4	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.326		2.26	2.38	-5.0	
6:2 FTS	L1ID		2.175		2.43	2.37	2.4	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.057		2.47	2.50	-1.1	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.079		2.06	2.32	-11.3	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9495		2.29	2.50	-8.5	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.738		2.29	2.33	-1.9	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8615		2.25	2.40	-6.1	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9654		2.23	2.50	-11.0	
8:2 FTS	AveID	1.617	1.624		2.41	2.40	0.4	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9760		2.34	2.50	-6.6	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8195		2.37	2.50	-5.2	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6734		2.24	2.41	-7.1	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.9000		2.23	2.50	-10.7	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8703		2.43	2.50	-2.8	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.086		2.24	2.36	-5.0	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9467		2.23	2.50	-10.6	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	1.008		2.50	2.41	3.7	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2726		2.15	2.42	-11.1	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187177/31 Calibration Date: 12/30/2022 16:50

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230A31.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9805		2.42	2.50	-3.2	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1243		2.27	2.50	-9.2	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8917		2.41	2.50	-3.7	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8298		2.52	2.50	0.8	
13C4 PFBA	Ave	1.122	1.008		1.12	1.25	-10.1	
13C5 PFPeA	Ave	0.8543	0.8225		1.20	1.25	-3.7	
13C3 PFBS	Ave	0.9281	0.8897		1.11	1.16	-4.1	
M2-4:2 FTS	Ave	0.0820	0.0840		1.20	1.17	2.4	
13C2 PFHxA	Ave	0.8951	0.8357		1.17	1.25	-6.6	
13C3 HFPO-DA	Ave	0.1580	0.1555		1.23	1.25	-1.6	
18O2 PFHxS	Ave	0.6761	0.6616		1.16	1.18	-2.2	50.0
13C4 PFHpA	Ave	0.9206	0.9038		1.23	1.25	-1.8	50.0
M2-6:2 FTS	Ave	0.1134	0.1274		1.33	1.19	12.3	
13C4 PFOA	Ave	1.035	1.028		1.24	1.25	-0.6	50.0
13C4 PFOS	Ave	0.4588	0.4362		1.14	1.20	-4.9	50.0
13C5 PFNA	Ave	1.006	1.025		1.27	1.25	1.9	50.0
13C2 PFDA	Ave	1.025	1.105		1.35	1.25	7.8	
M2-8:2 FTS	Ave	0.1387	0.1501		1.30	1.20	8.2	
13C8 FOSA	Ave	0.8403	0.8030		1.19	1.25	-4.4	
d3-NMeFOSAA	Ave	0.2087	0.2061		1.23	1.25	-1.3	
13C2 PFUnA	Ave	0.9385	1.008		1.34	1.25	7.4	
d5-NEtFOSAA	Ave	0.2055	0.2006		1.22	1.25	-2.4	
13C2 PFDoA	Ave	0.9562	1.019		1.33	1.25	6.6	
13C2 PFTeDA	Ave	0.8270	0.9796		1.48	1.25	18.4	
13C2 PFHxDA	Ave	1.022	1.155		1.41	1.25	13.0	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-Dec-2022 16:50:08 ALS Bottle#: 28 Worklist Smp#: 31
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053865-031 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:52:09 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 08:51:23

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.094	2.076	0.018	0.613	2886703	1.12		89.9	11016	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.076	0.018	1.000	5340755	2.24		89.7	397	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.387	2.387	0.0	0.699	2355440	1.20		96.3	3179	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.387	0.013	1.006	4594836	2.24		89.5	124	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.703	2369583	1.11		95.9	166775	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.414	2.400	0.014	1.006	4614690	1.98	Target=2.09	89.5	2317	M
298.90 > 99.00	2.414	2.400	0.014	1.006	2257065		2.04(1.04-3.13)		1333	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	1294199	2.18		93.5	4841	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.788	224553	1.20		102	210	
D 7 13C2 PFHxA										
315.00 > 270.00	2.726	2.725	0.001	0.799	2393127	1.17		93.4	5044	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.726	2.725	0.001	1.000	4768285	2.29	Target=14.25	91.4	597	M
313.00 > 119.00	2.726	2.725	0.001	1.000	341952		13.94(7.12-21.37)		593	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.726	2.737	-0.011	0.889	4294995	2.12	Target=3.04	90.5	4226	
349.00 > 99.00	2.726	2.737	-0.011	0.889	1484579		2.89(1.52-4.56)		2376	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.823	2.835	-0.012	1.000	864379	2.30		91.9	1910	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.823	2.835	-0.012	0.827	445254	1.23		98.4	1440	
D 11 18O2 PFHxS										
403.00 > 84.00	3.066	3.088	-0.022	0.898	1792277	1.16		97.8	3927	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.066	3.088	-0.022	1.000	3552151	2.08	Target=3.66	91.3	1760	M
399.00 > 99.00	3.066	3.088	-0.022	1.000	1025428		3.46(1.83-5.49)		1170	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.077	3.099	-0.022	0.902	2588328	1.23		98.2	3964	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.077	3.099	-0.022	1.000	5071530	2.25	Target=3.97	90.0	891	
363.00 > 169.00	3.077	3.099	-0.022	1.000	1275003		3.98(1.98-5.95)		2088	
77 DONA										
377.00 > 251.00	3.110	3.132	-0.022	0.837	12267571	2.23	Target=3.16	94.6	7151	
377.00 > 85.00	3.110	3.132	-0.022	0.837	3874297		3.17(1.58-4.73)		3242	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.404	3.439	-0.035	0.997	346543	1.33		112	682	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.404	3.439	-0.035	1.000	1504132	2.43		102	1195	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.396	3.439	-0.043	0.914	3155041	2.26	Target=5.14	95.0	5720	
449.00 > 99.00	3.396	3.439	-0.043	0.914	636252		4.96(2.57-7.72)		1513	
D 14 13C4 PFOA										
417.00 > 372.00	3.413	3.448	-0.035	1.000	2944765	1.24		99.4	3340	
* 62 13C2 PFOA										
415.00 > 370.00	3.413	3.448	-0.035		2863680	1.25			4237	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.413	3.448	-0.035	1.000	6225594	2.47	Target=2.79	98.9	432	
413.00 > 169.00	3.413	3.448	-0.035	1.000	2089845		2.98(1.40-4.19)		2612	
D 18 13C4 PFOS										
503.00 > 80.00	3.717	3.764	-0.047	1.089	1194249	1.14		95.1	1289	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.717	3.764	-0.047	1.000	2501999	2.06	Target=5.11	88.7	954	M
499.00 > 99.00	3.717	3.764	-0.047	1.000	545557		4.59(2.55-7.66)		1104	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.736	3.783	-0.047	1.000	5571625	2.29	Target=8.55	91.5	1143	
463.00 > 169.00	3.736	3.783	-0.047	1.000	674973		8.25(4.28-12.83)		3134	
D 19 13C5 PFNA										
468.00 > 423.00	3.736	3.783	-0.047	1.094	2934002	1.27		102	4627	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.880	3.928	-0.048	1.044	6375610	2.29		98.1	4225	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.006	4.050	-0.044	1.078	2066291	2.25	Target=2.53	93.9	3913	
549.00 > 99.00	4.006	4.050	-0.044	1.078	809593		2.55(1.27-3.80)		1866	
D 23 13C2 PFDA										
515.00 > 470.00	4.033	4.081	-0.048	1.182	3163434	1.35		108	4313	

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	4.033	4.081	-0.048	1.000	6107671	2.23	Target=10.26	89.0	1870	
513.00 > 169.00	4.033	4.081	-0.048	1.000	602038		10.14(5.13-15.38)		1212	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.042	4.093	-0.051	1.184	411819	1.30		108	917	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.042	4.093	-0.051	1.000	1337373	2.40		100	4192	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.105	4.150	-0.045	1.000	4488633	2.34		93.4	2403	
D 21 13C8 FOSA										
506.00 > 78.00	4.105	4.150	-0.045	1.203	2299420	1.19		95.6	2245	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.185	4.228	-0.043	1.226	590076	1.23		98.7	260	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.185	4.228	-0.043	1.000	967100	2.37		94.8	826	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.274	4.331	-0.057	1.150	1621941	2.24	Target=2.51	92.9	3143	
599.00 > 99.00	4.274	4.331	-0.057	1.150	621712		2.61(1.25-3.76)		2349	
D 30 13C2 PFUnA										
565.00 > 520.00	4.309	4.353	-0.044	1.262	2887808	1.34		107	4106	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.309	4.353	-0.044	1.000	5198254	2.23	Target=9.88	89.3	1393	
563.00 > 169.00	4.309	4.353	-0.044	1.000	508278		10.23(4.94-14.82)		1387	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.320	4.365	-0.045	1.003	999807	2.43		97.2	1300	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.309	4.365	-0.056	1.262	574411	1.22		97.6	842	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.399	4.454	-0.055	1.184	9615908	2.24		95.0	12650	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.543	4.591	-0.048	1.000	5526268	2.23	Target=7.77	89.4	975	
613.00 > 169.00	4.543	4.591	-0.048	1.000	731450		7.56(3.89-11.66)		2312	
D 36 13C2 PFDaA										
615.00 > 570.00	4.543	4.591	-0.048	1.331	2918813	1.33		107	3295	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.555	4.612	-0.057	1.127	835286	2.50		104	1328	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.722	4.776	-0.054	1.270	659213	2.15	Target=0.50	88.9	3566	
699.00 > 99.00	4.722	4.776	-0.054	1.270	1282218		0.51(0.25-0.76)		6566	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.749	4.804	-0.055	1.045	5723856	2.42	Target=5.21	96.8	337	
663.00 > 169.00	4.749	4.804	-0.055	1.045	1004566		5.70(2.60-7.81)		2532	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.952	5.012	-0.060	1.000	697135	2.27	Target=0.89	90.8	3223	
713.00 > 219.00	4.952	5.012	-0.060	1.000	760671		0.92(0.44-1.33)		4584	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.952	5.012	-0.060	1.451	2805189	1.48		118	4951	

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	5.311	5.367	-0.056	1.000	5900340	2.41	Target=5.65	96.3	418	
813.00 > 169.00	5.311	5.367	-0.056	1.000	949867		6.21(2.82-8.47)		4871	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.311	5.367	-0.056	1.556	3308483	1.41		113	4458	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.659	5.722	-0.063	1.065	5490969	2.52	Target=6.24	101	327	
913.00 > 169.00	5.659	5.722	-0.063	1.065	772971		7.10(3.12-9.36)		1055	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d

Injection Date: 30-Dec-2022 16:50:08

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 28

Worklist Smp#: 31

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

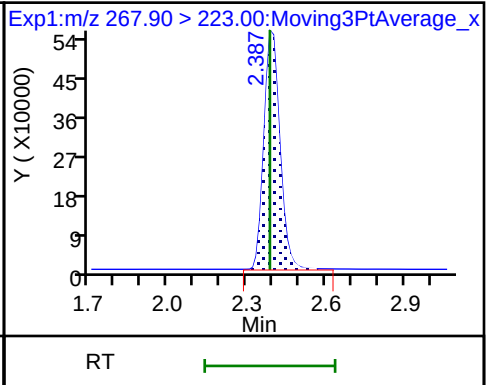
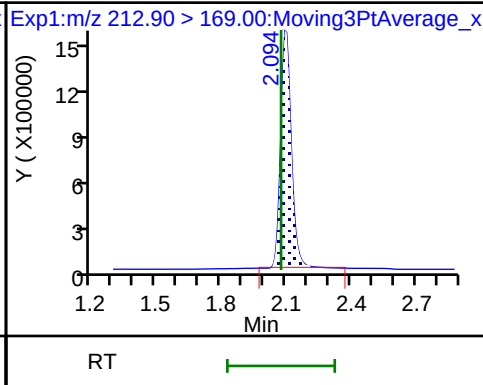
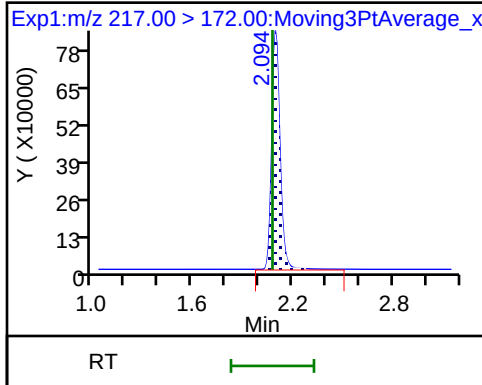
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

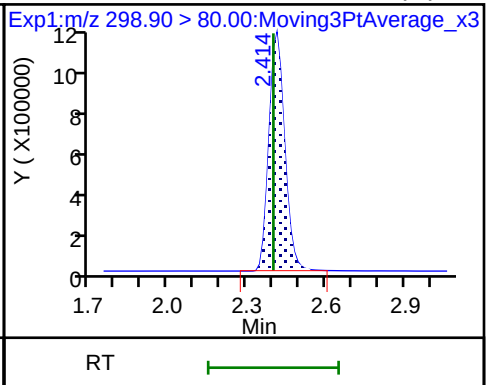
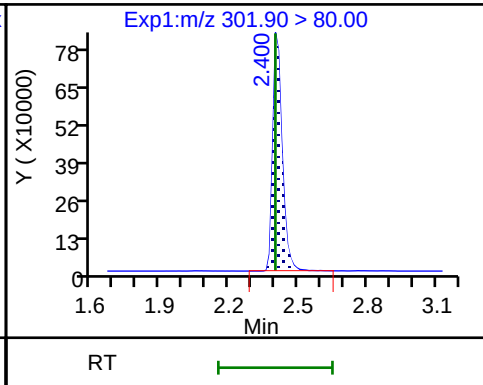
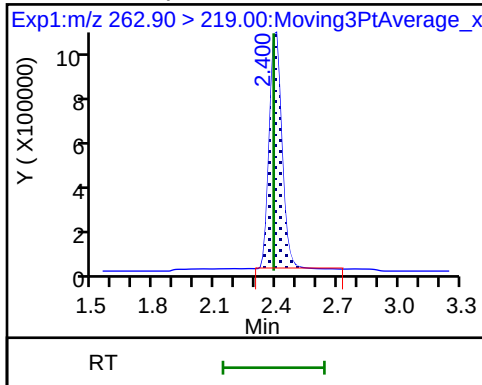
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

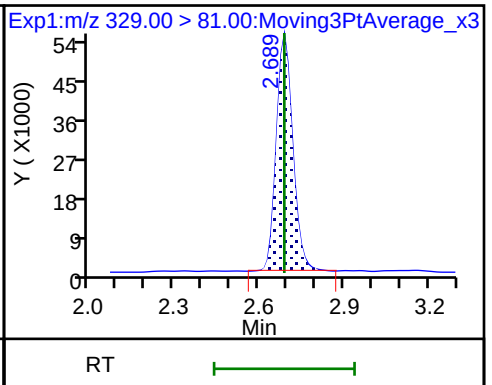
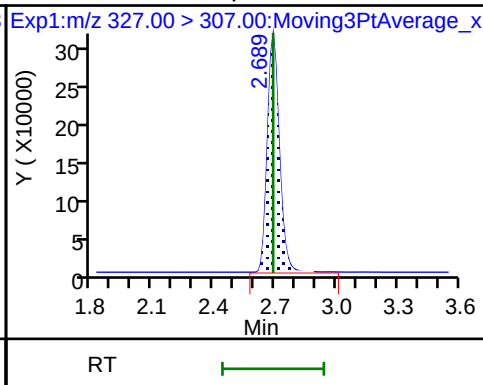
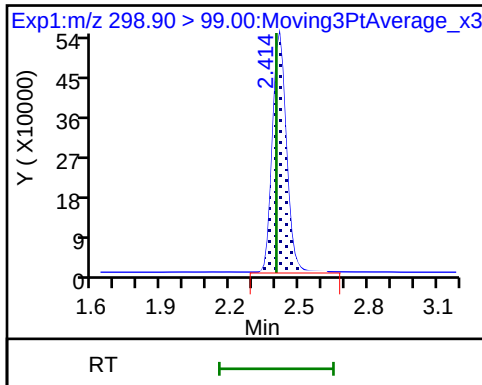
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

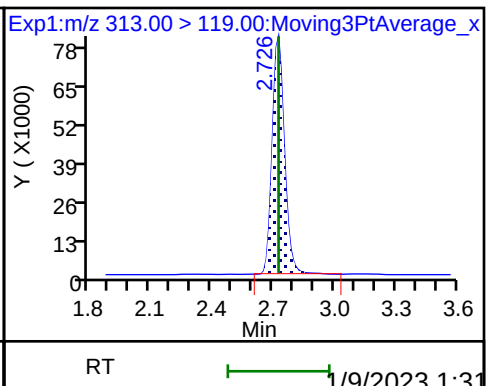
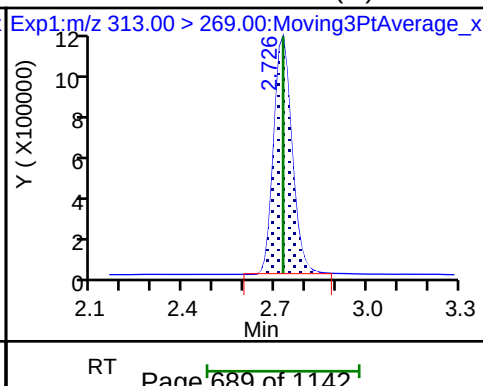
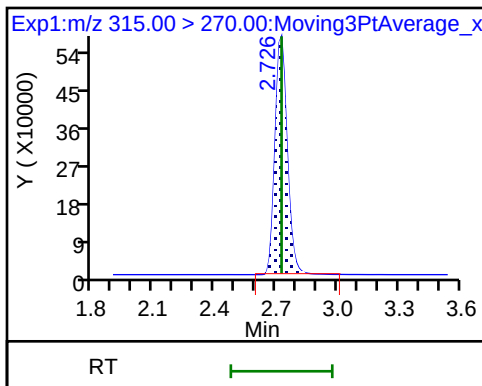
D 60 M2-4:2 FTS

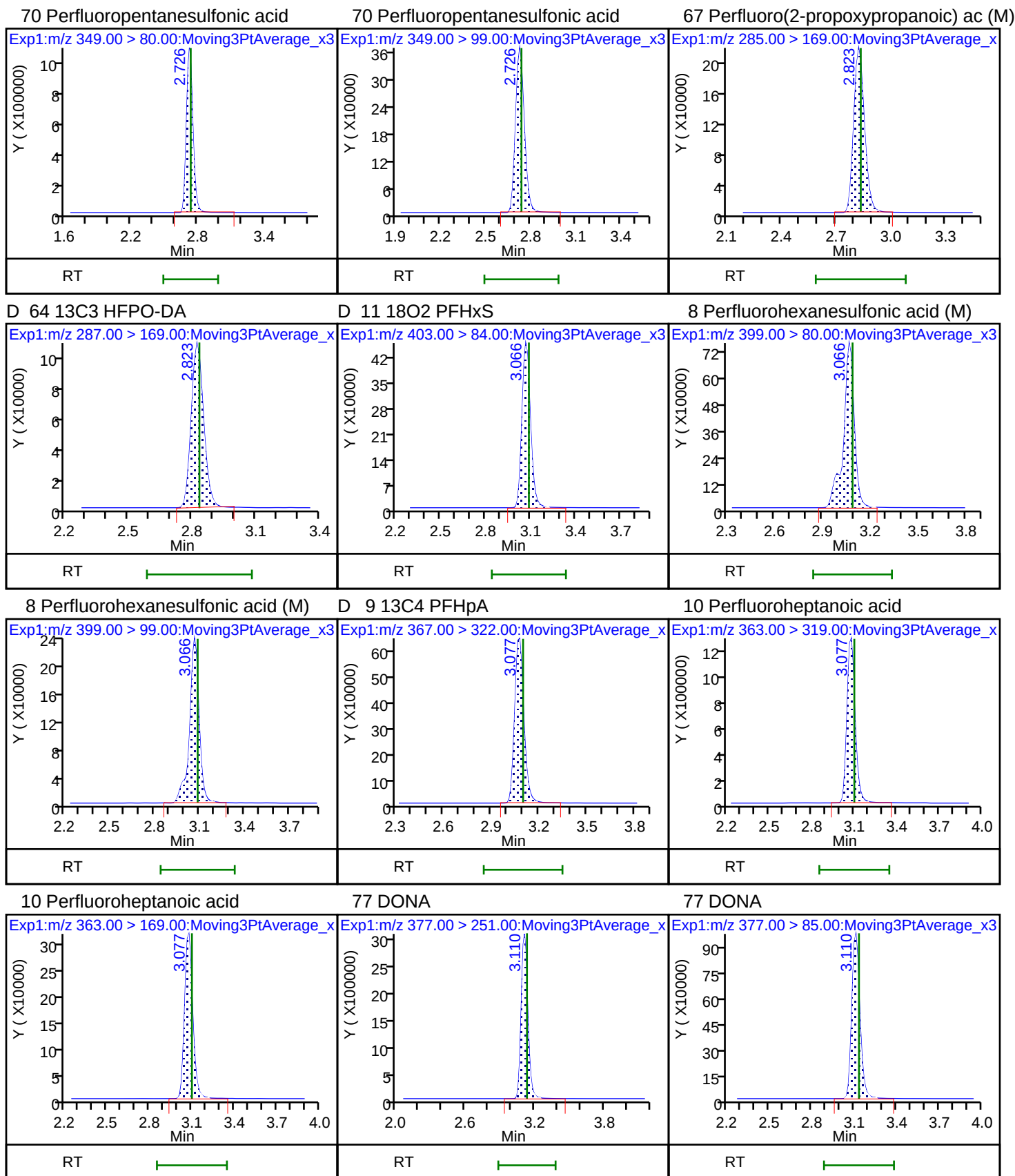


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

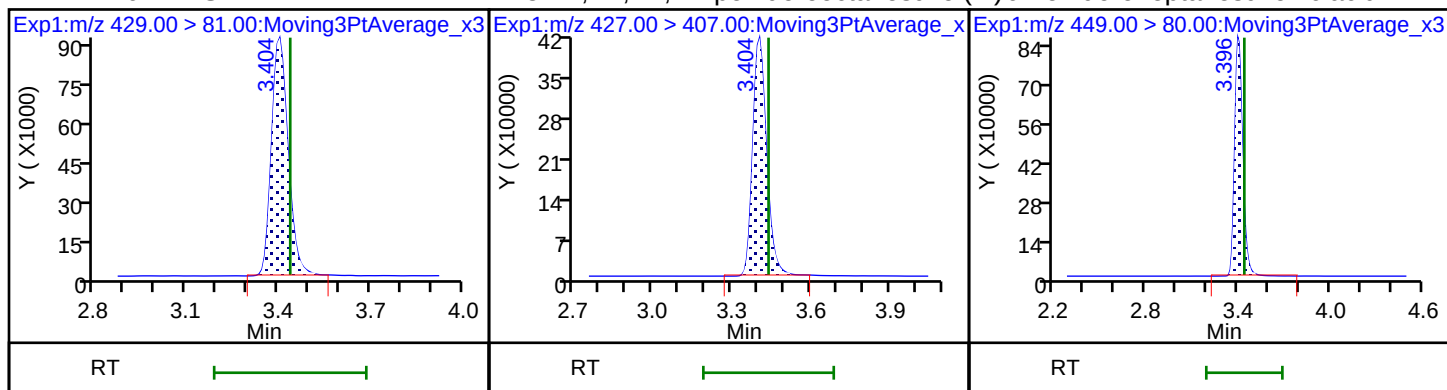
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

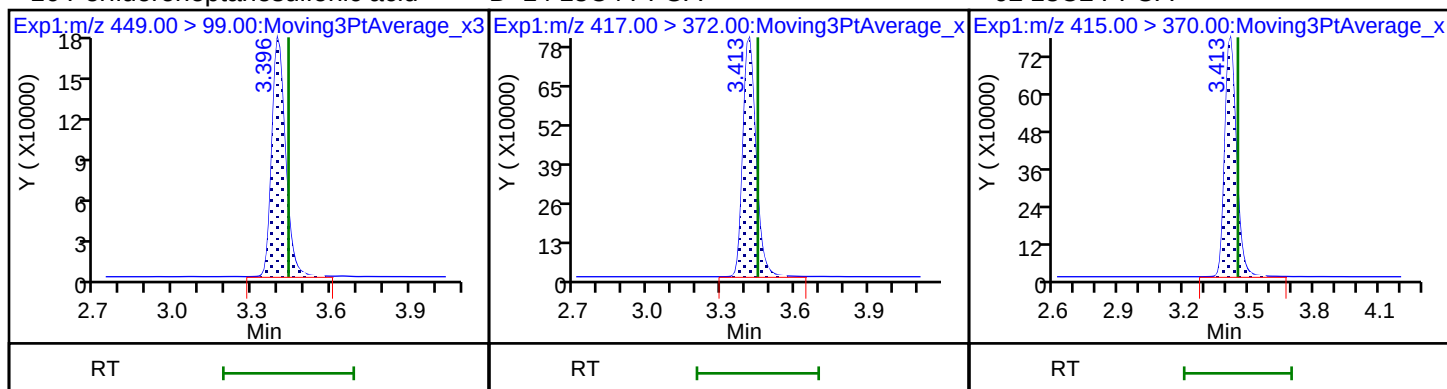
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

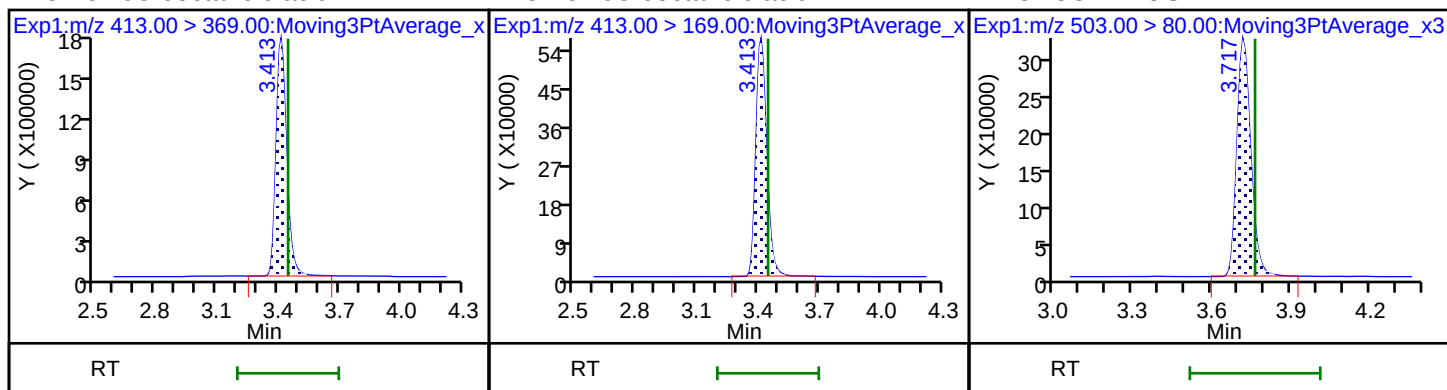
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

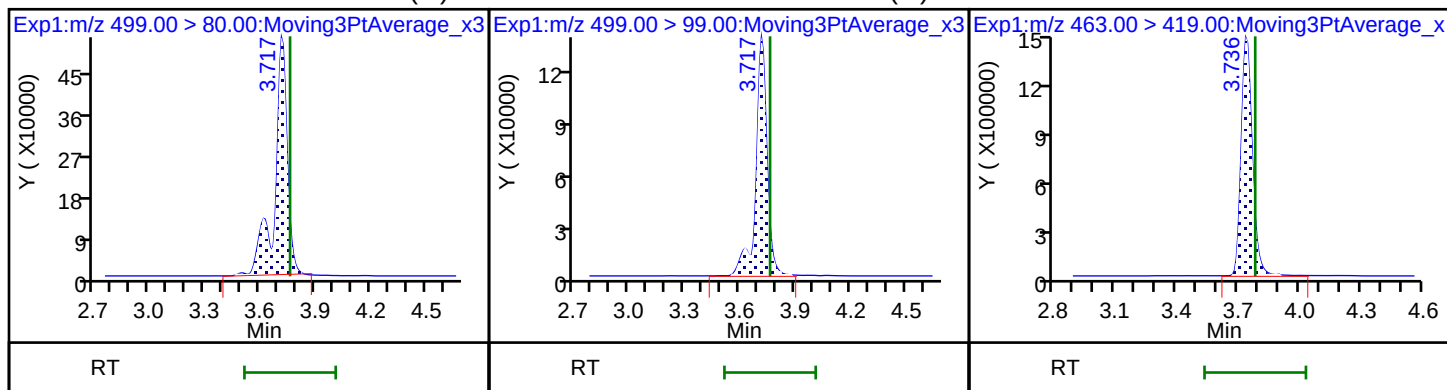
D 18 13C4 PFOS

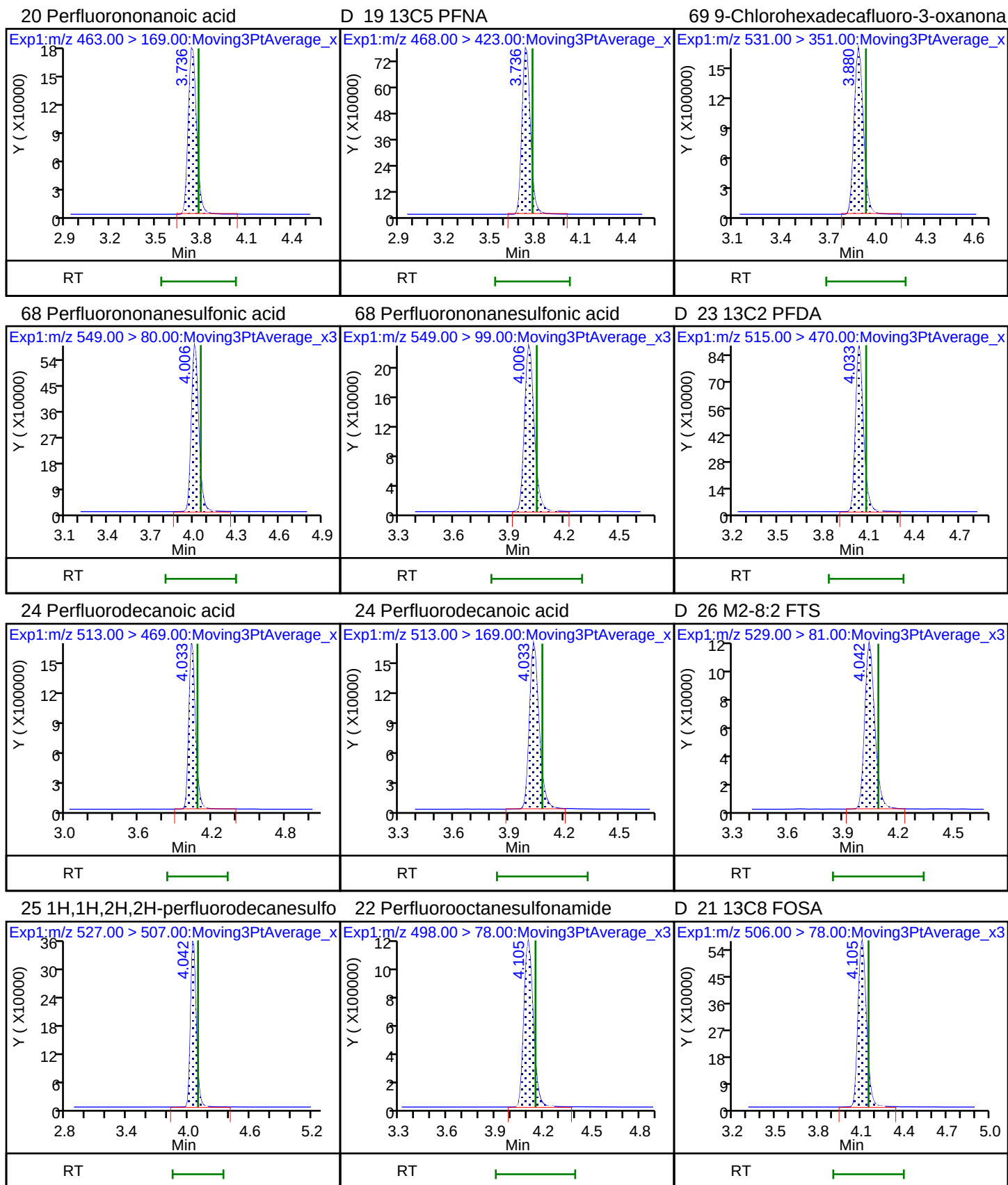


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

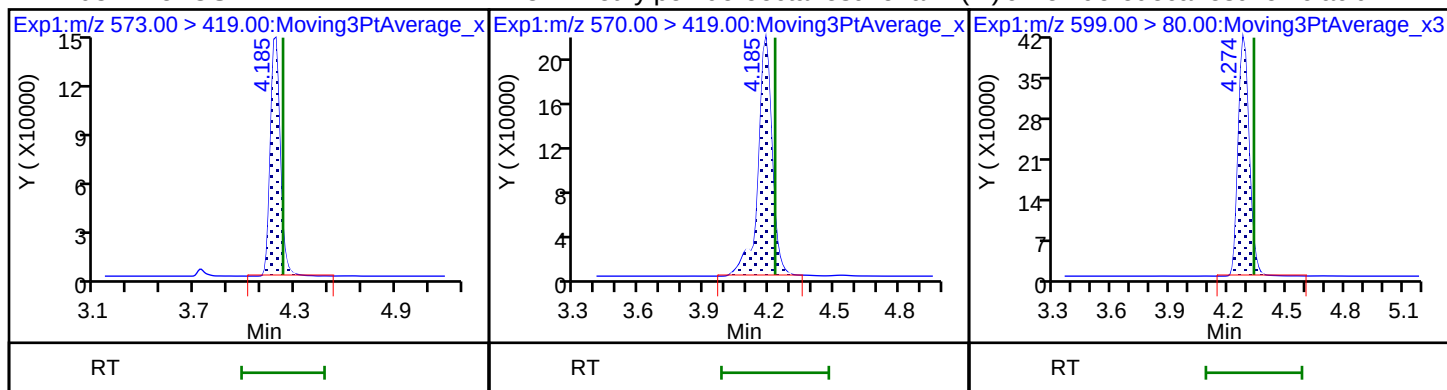
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

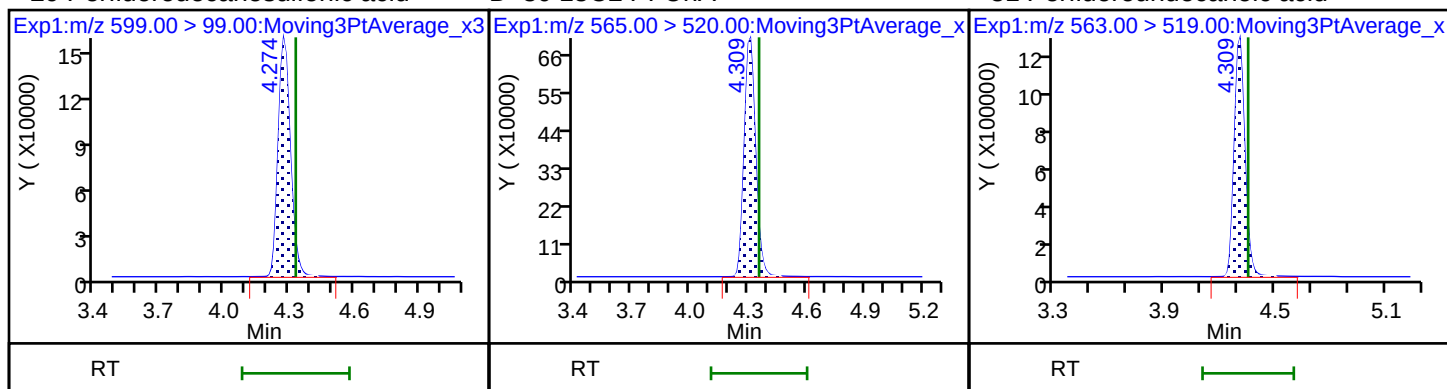
28 N-methylperfluorooctanesulfonami (M29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

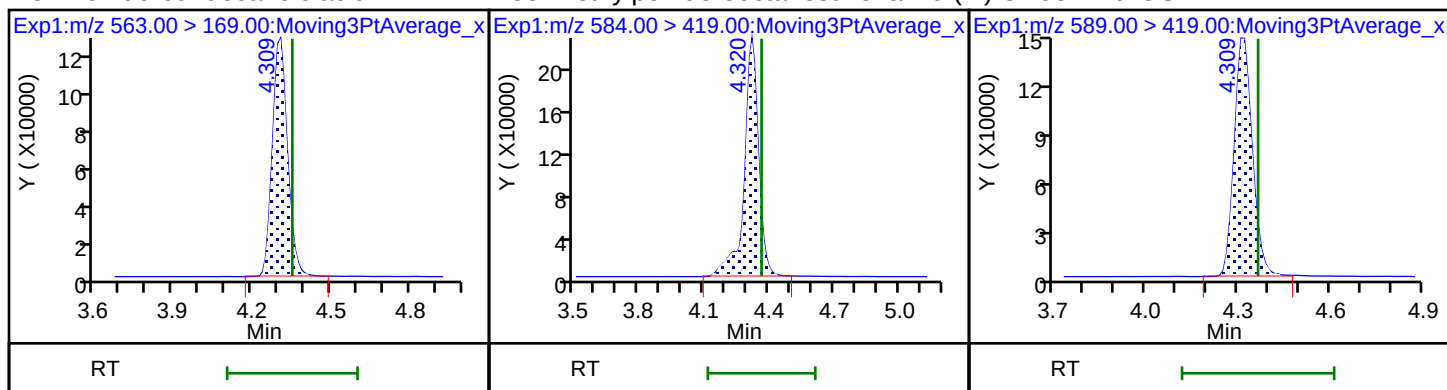
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

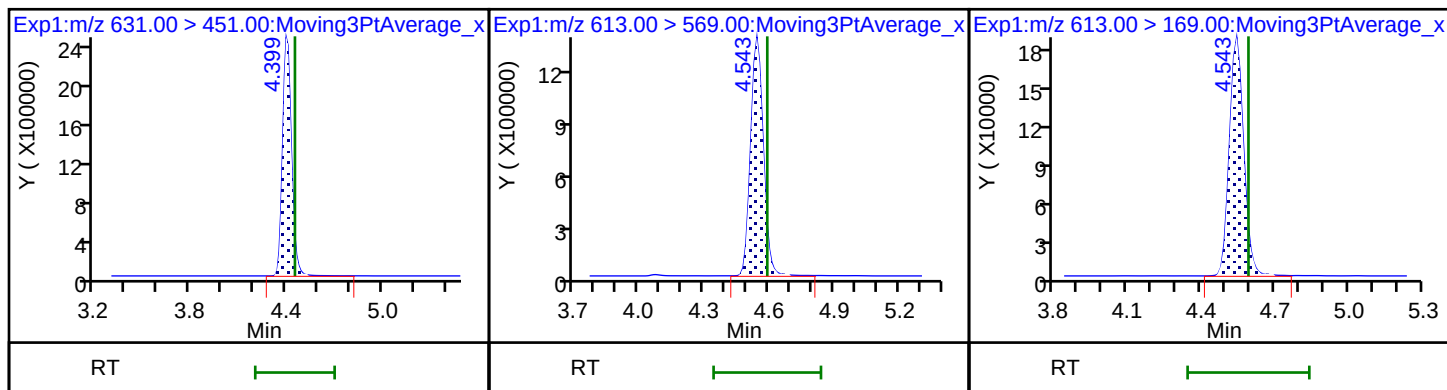
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

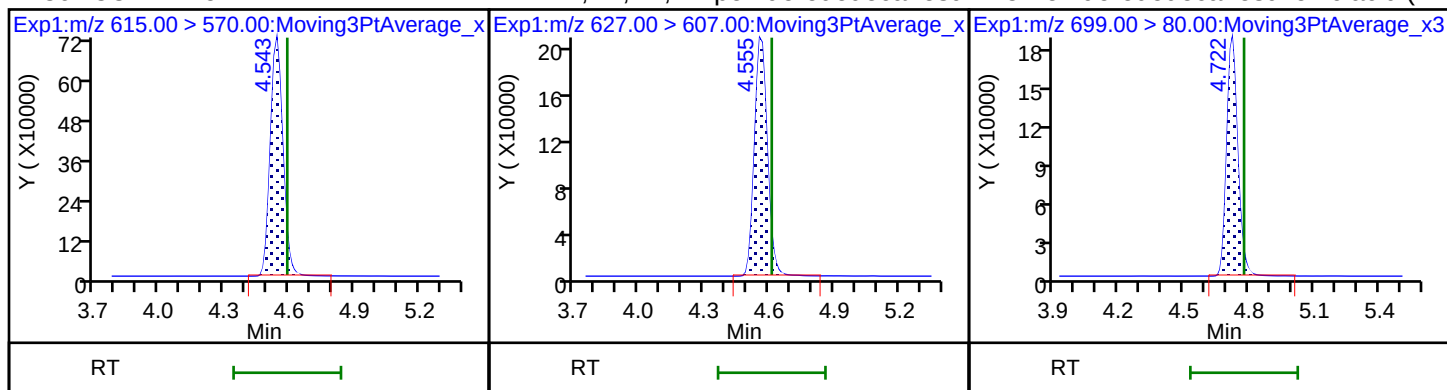
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

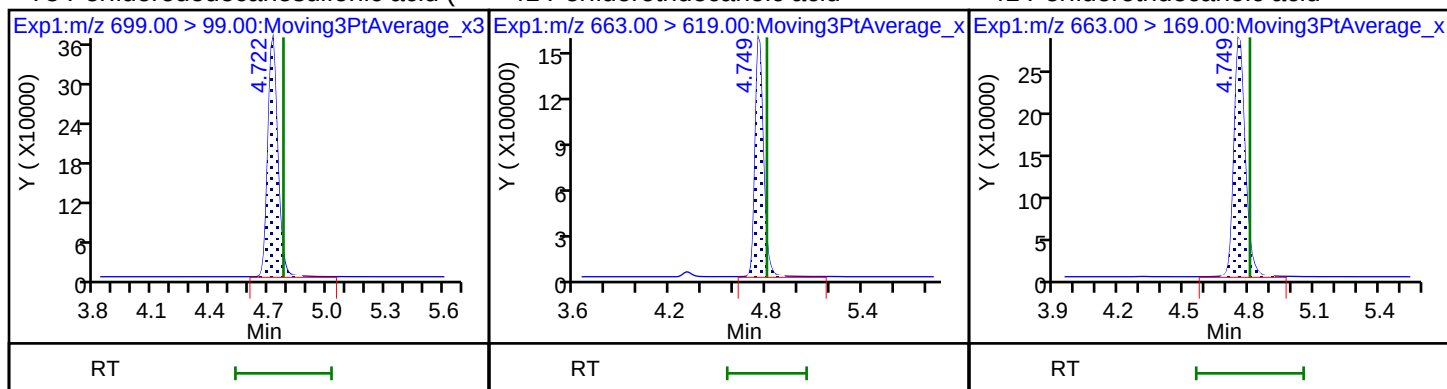
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

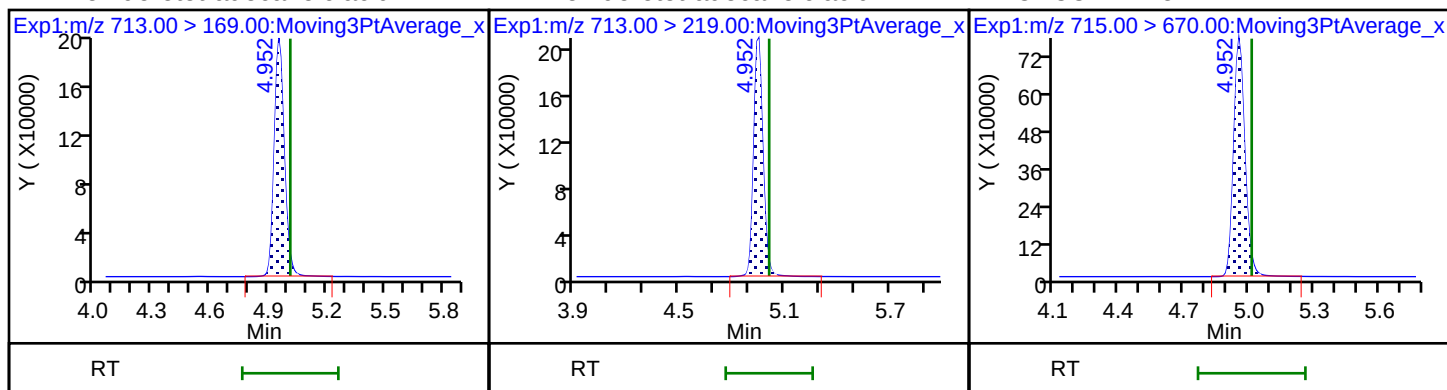
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

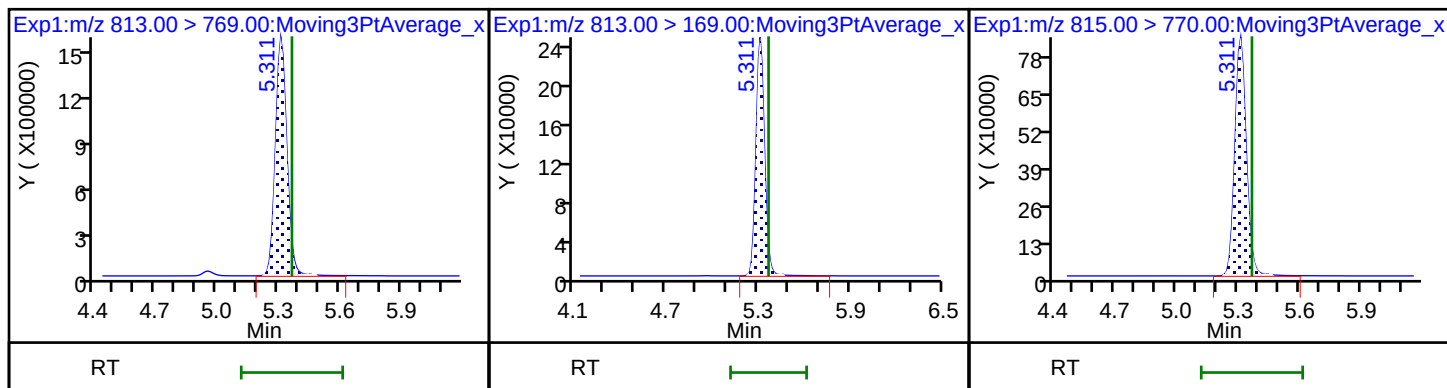
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

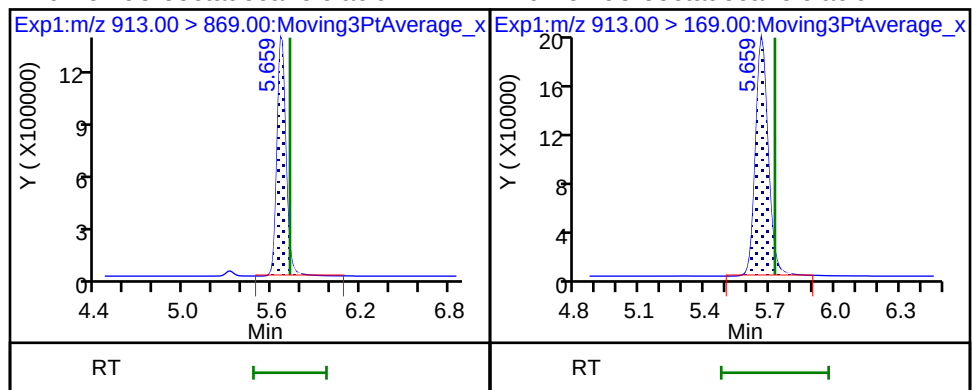
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

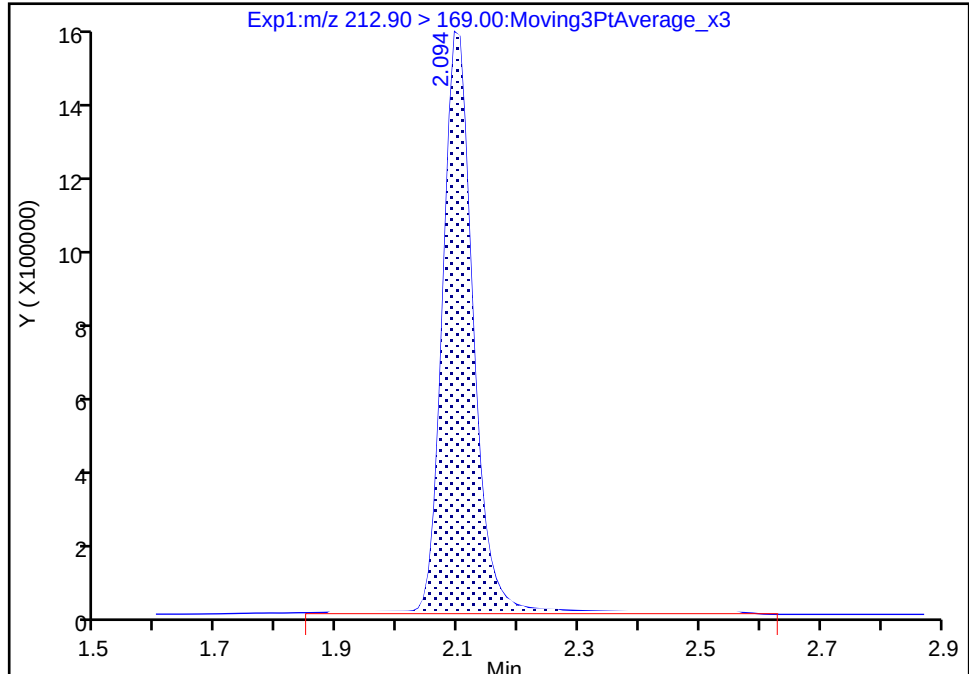
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

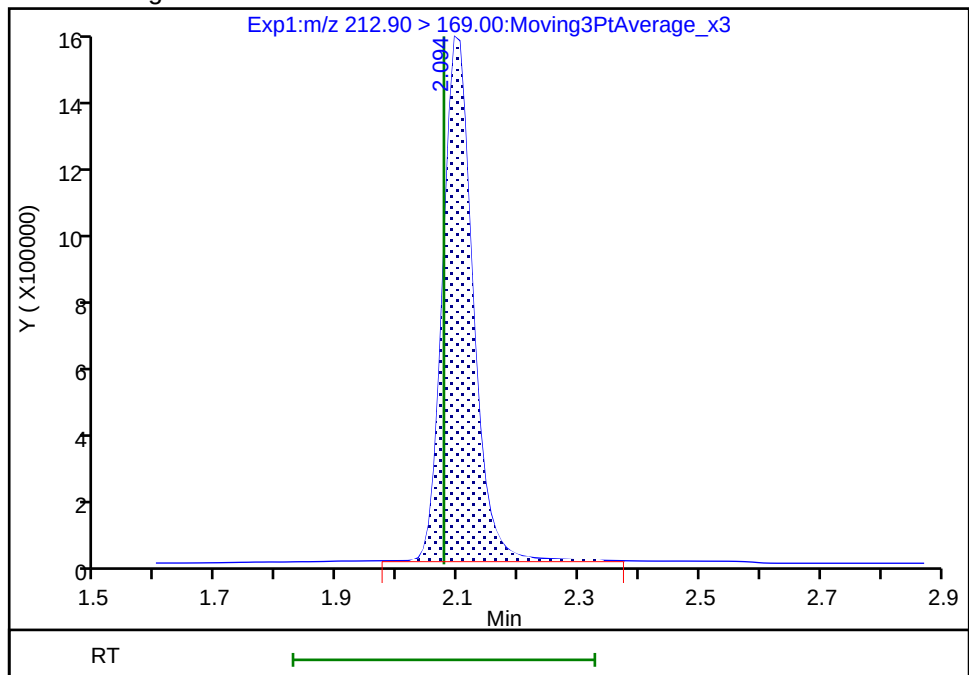
RT: 2.09
Area: 5542255
Amount: 2.327304
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 5340755
Amount: 2.242690
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:49:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

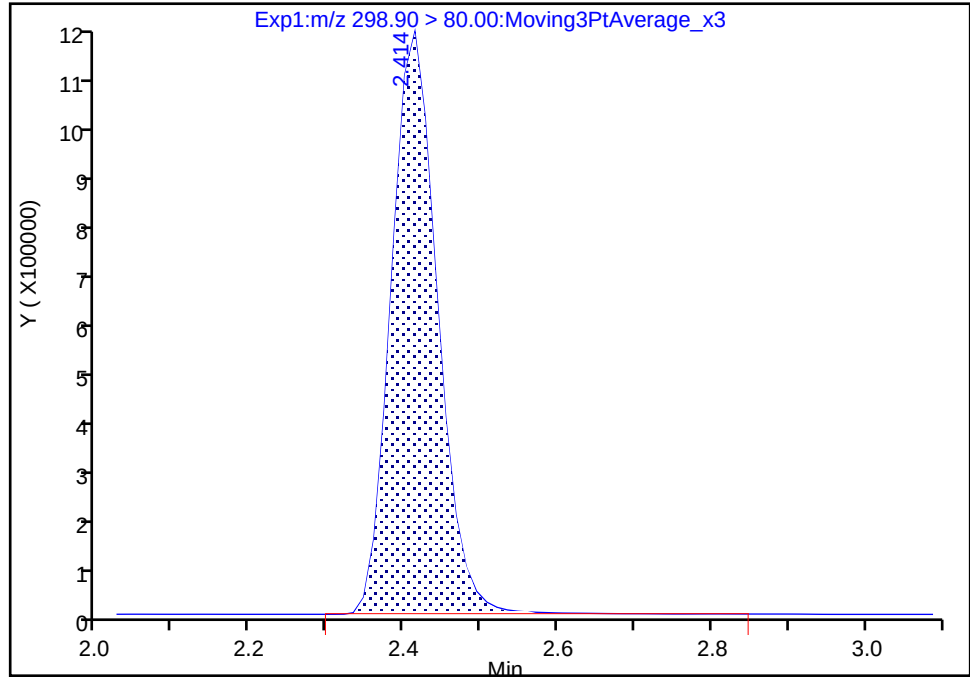
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

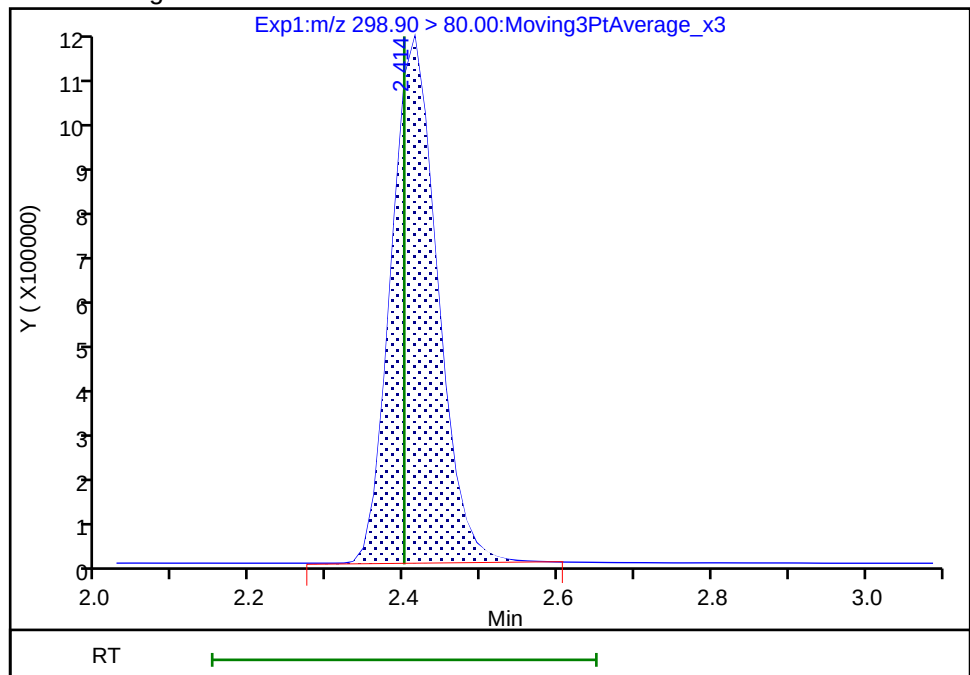
RT: 2.41
Area: 4646000
Amount: 1.992243
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 4614690
Amount: 1.978817
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:49:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

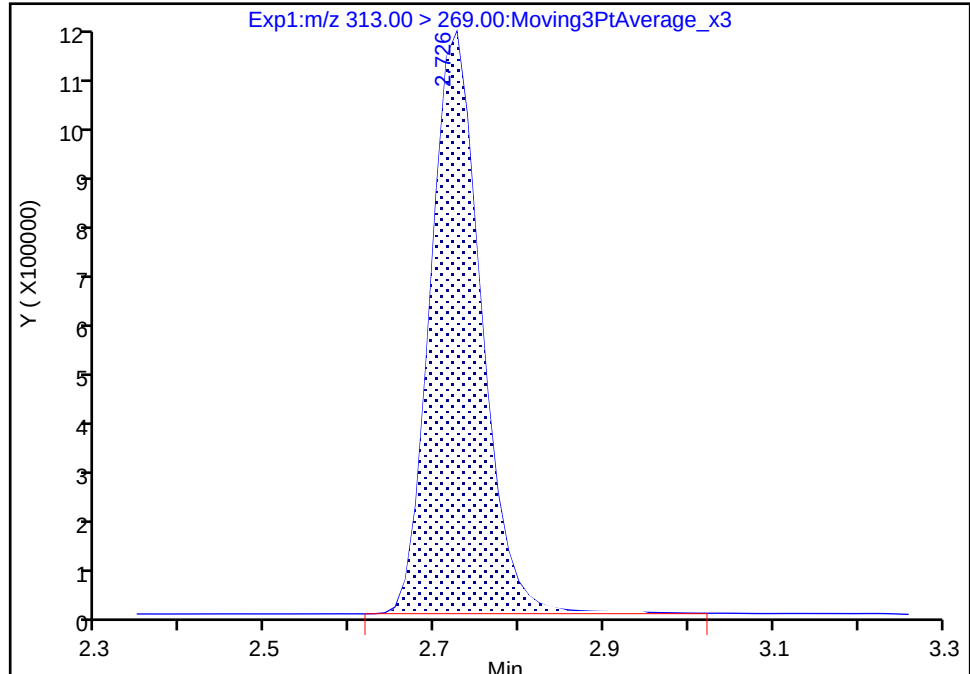
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

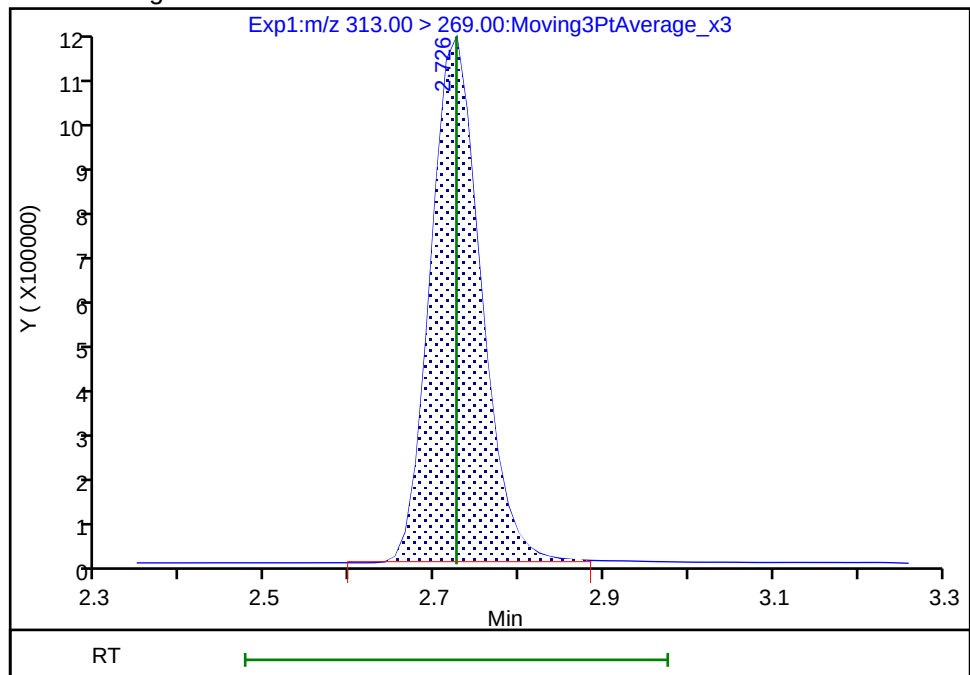
RT: 2.73
Area: 4824621
Amount: 2.312790
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 4768285
Amount: 2.285784
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:49:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

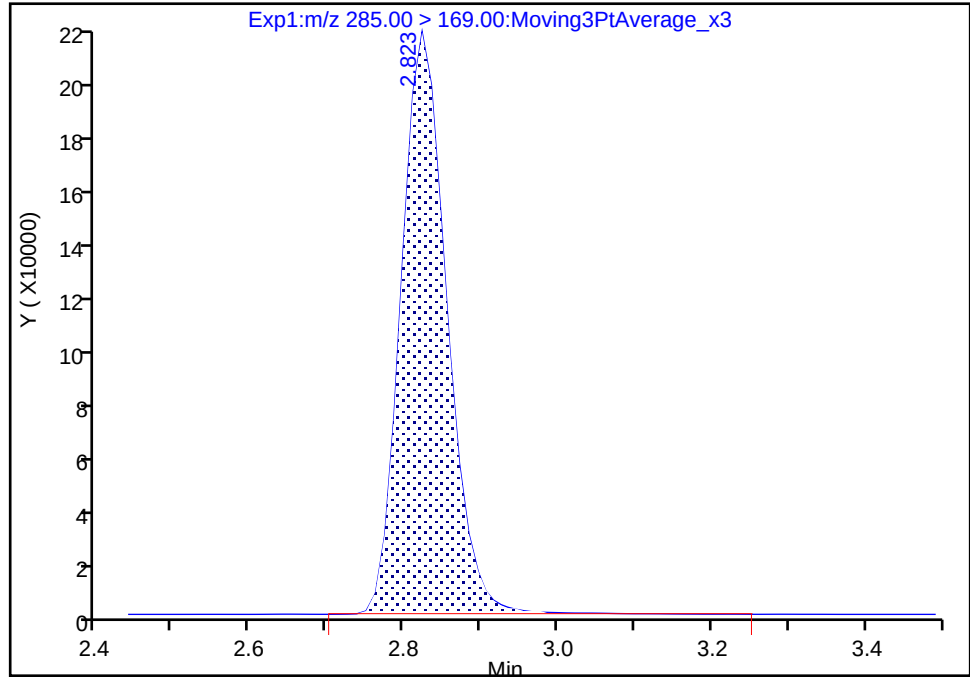
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

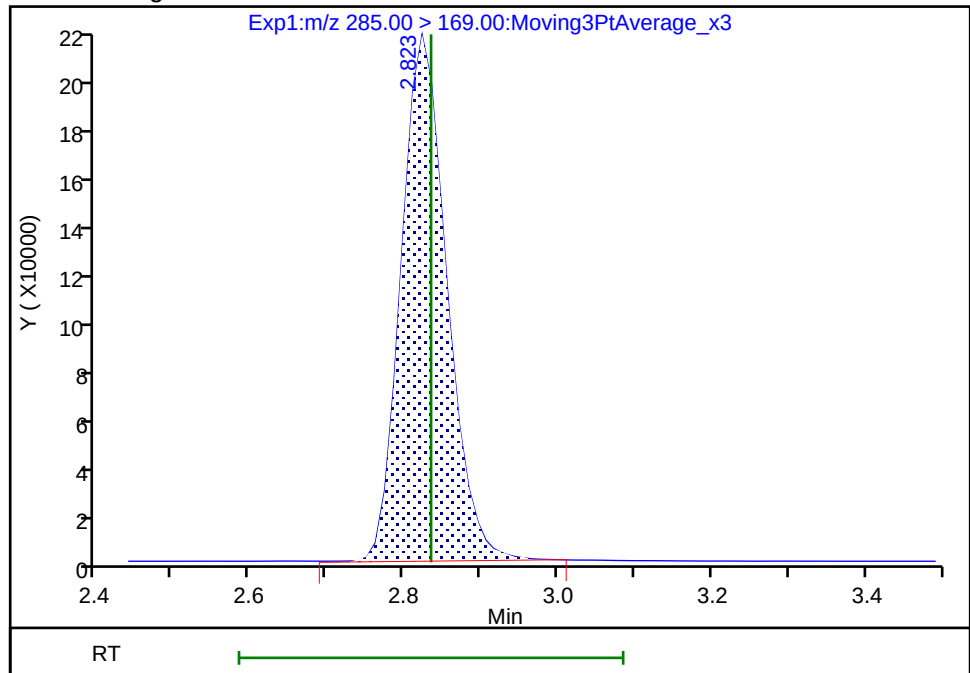
RT: 2.82
Area: 872499
Amount: 2.319722
Amount Units: ng/ml

Processing Integration Results



RT: 2.82
Area: 864379
Amount: 2.298133
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:49:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

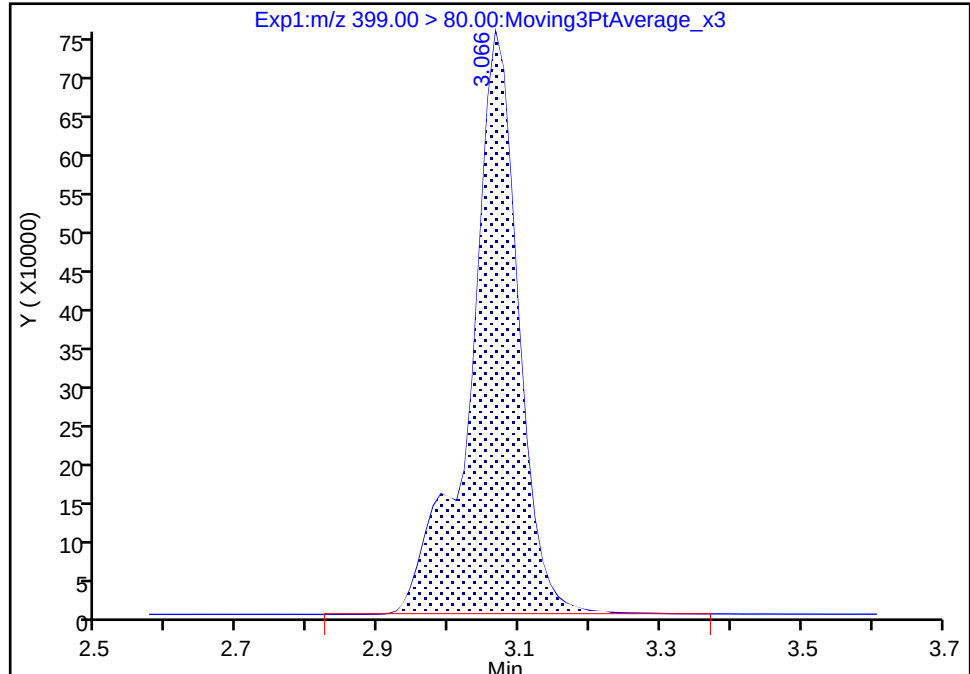
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

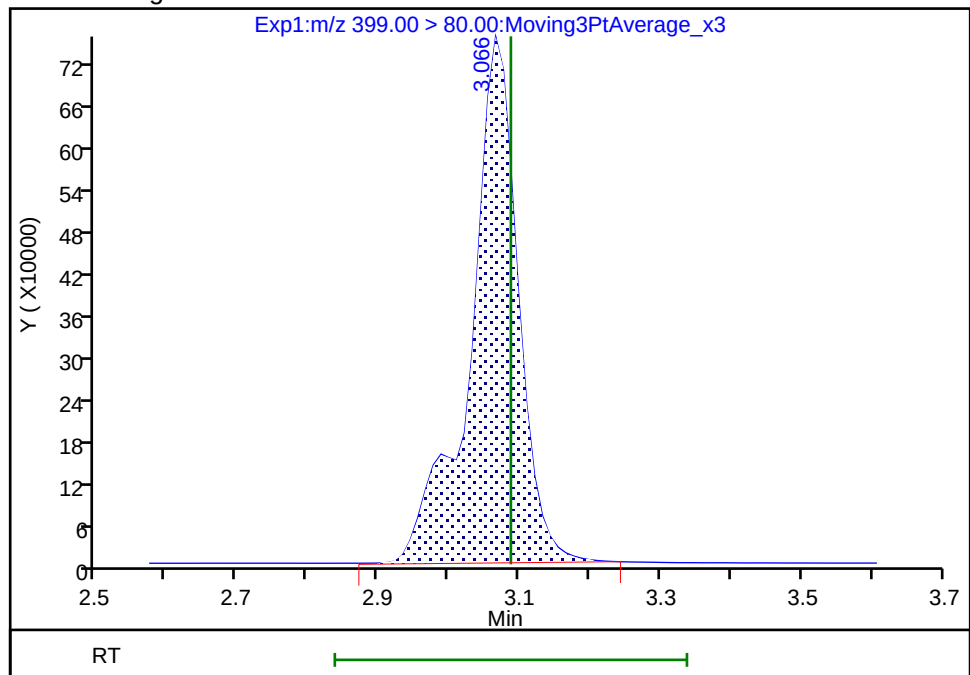
RT: 3.07
Area: 3575617
Amount: 2.090186
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 3552151
Amount: 2.076469
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:50:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

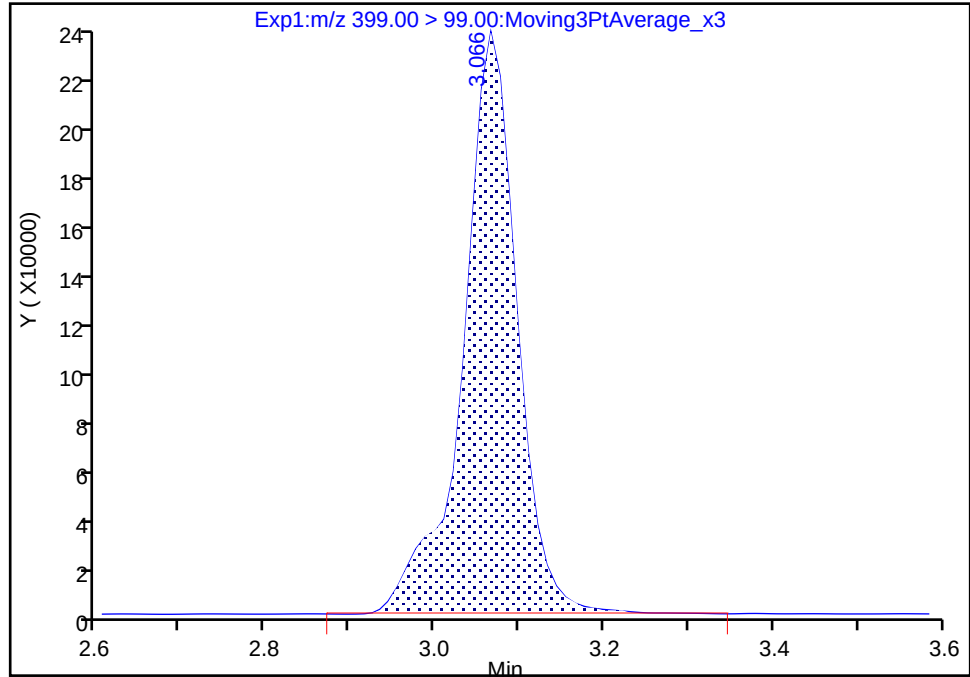
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

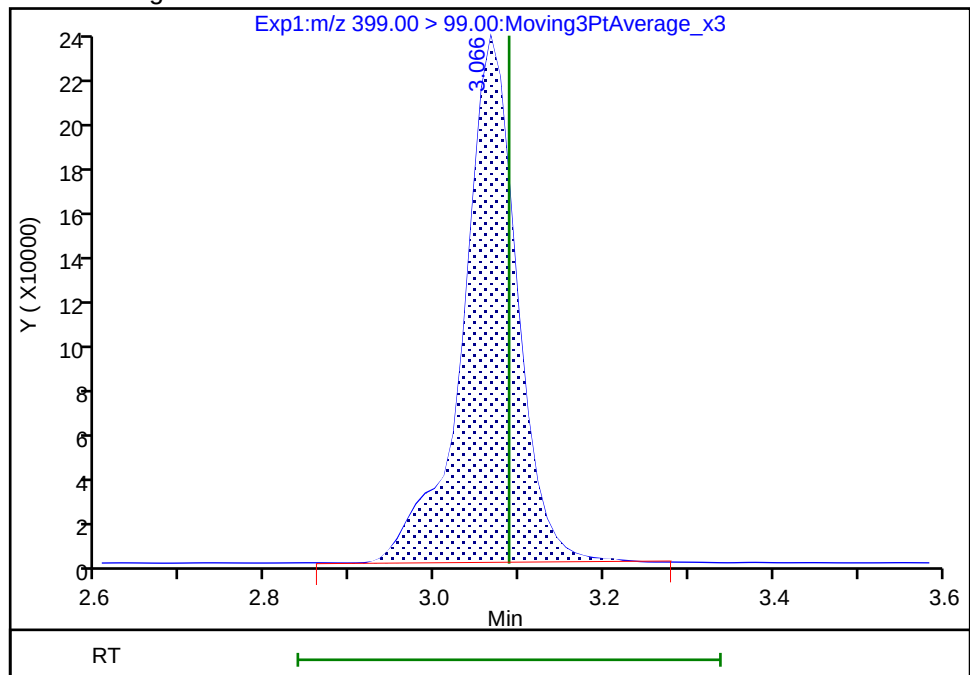
RT: 3.07
Area: 1031742
Amount: 2.090186
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 1025428
Amount: 2.076469
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:50:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

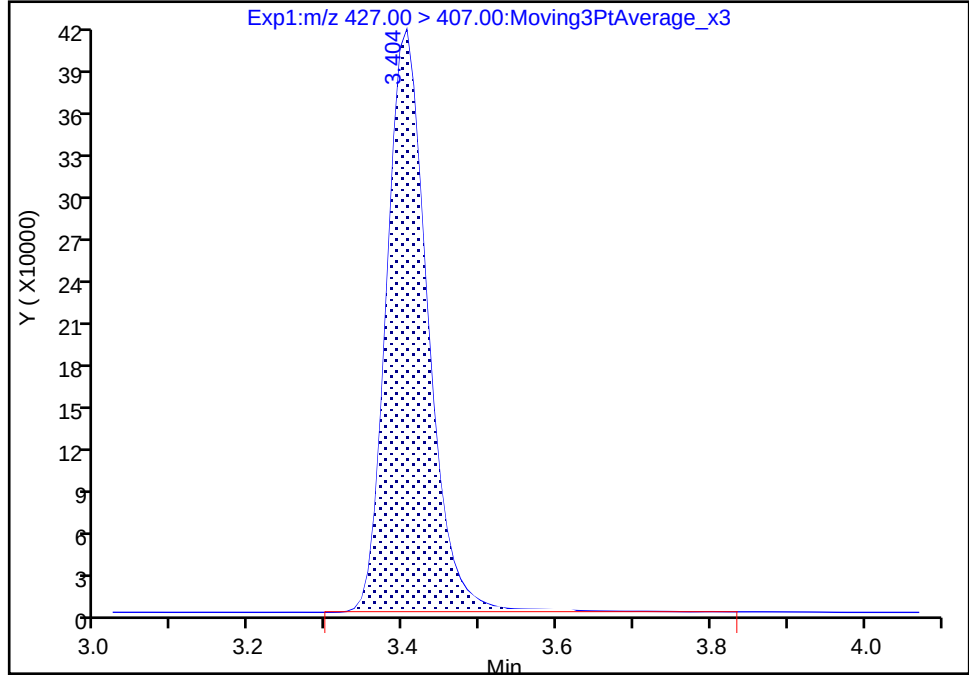
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

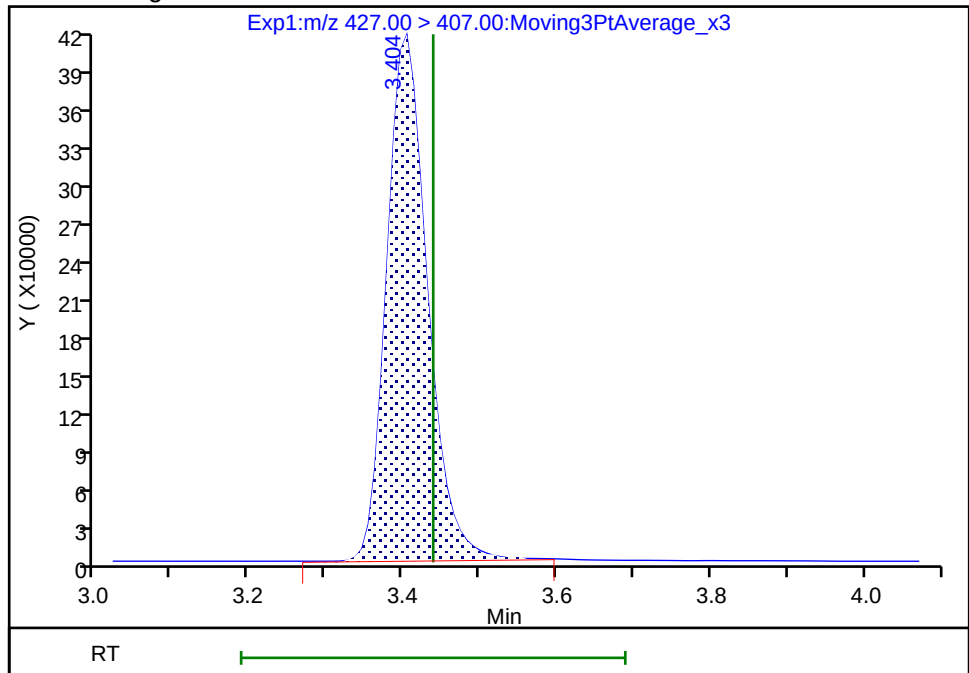
RT: 3.40
Area: 1527747
Amount: 2.466338
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 1504132
Amount: 2.428031
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:50:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

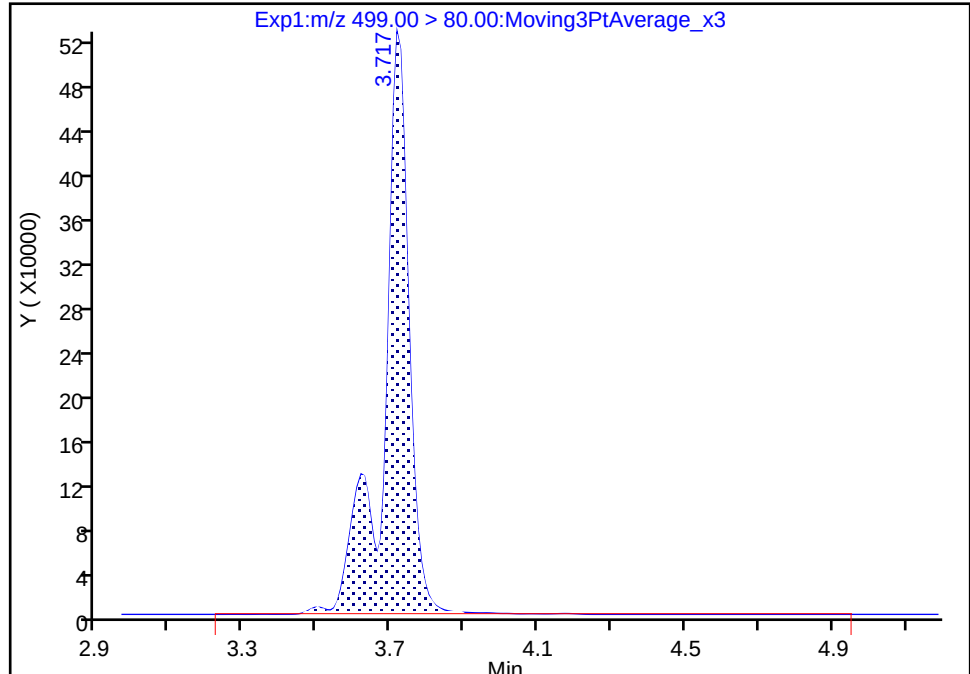
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

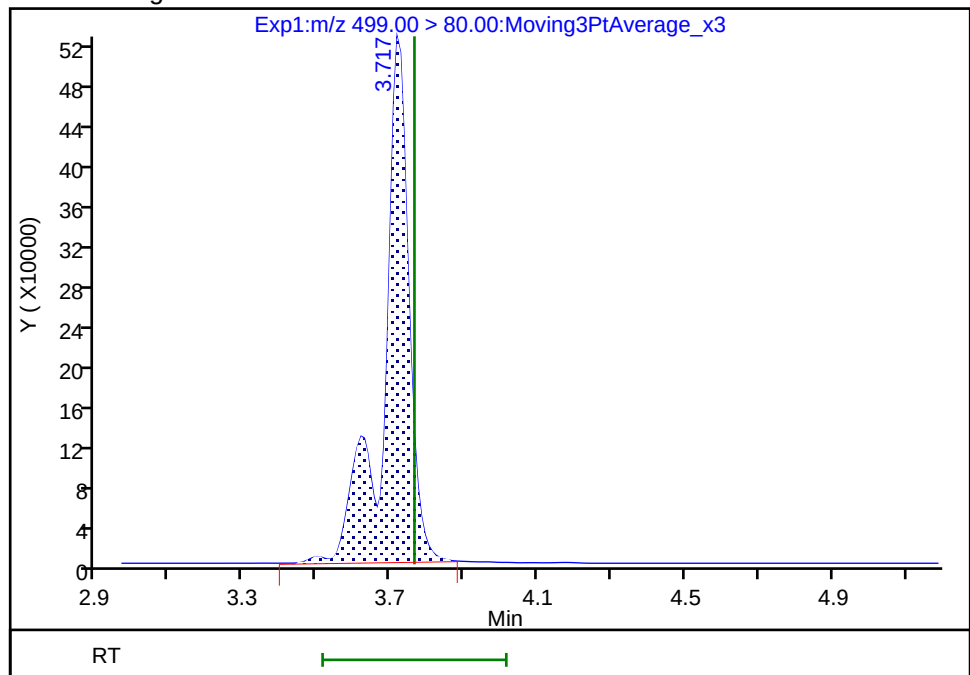
RT: 3.72
Area: 2553141
Amount: 2.100701
Amount Units: ng/ml

Processing Integration Results



RT: 3.72
Area: 2501999
Amount: 2.058622
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:50:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

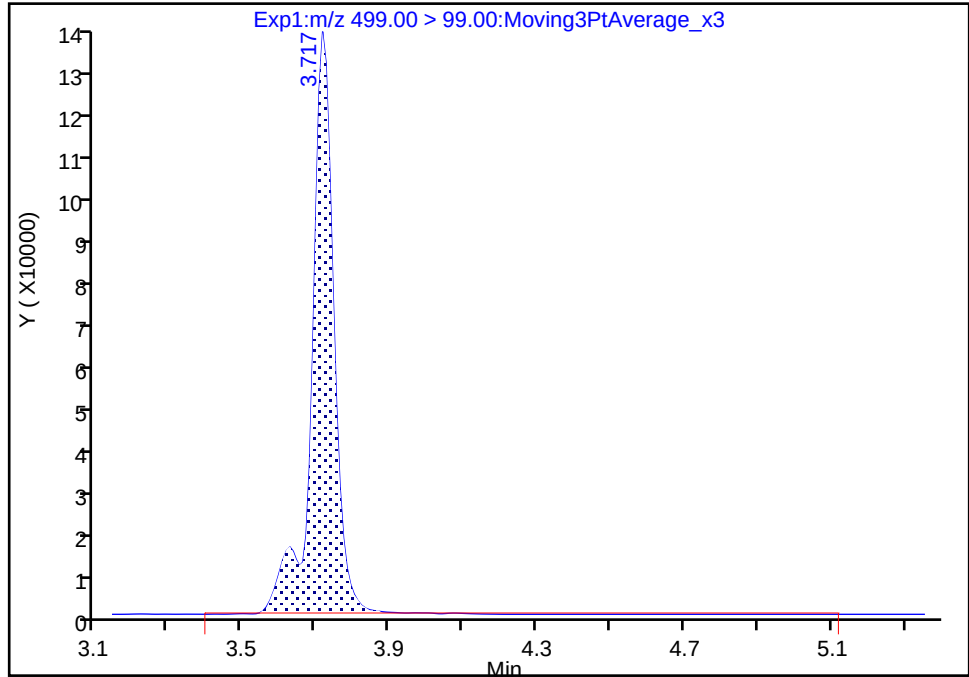
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

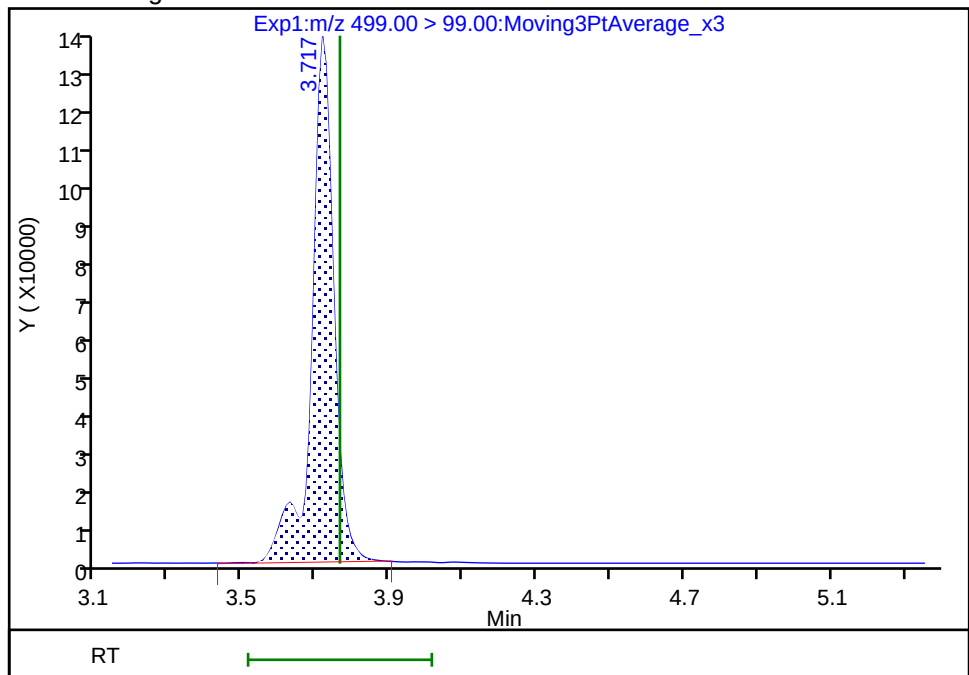
RT: 3.72
Area: 556076
Amount: 2.100701
Amount Units: ng/ml

Processing Integration Results



RT: 3.72
Area: 545557
Amount: 2.058622
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:50:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

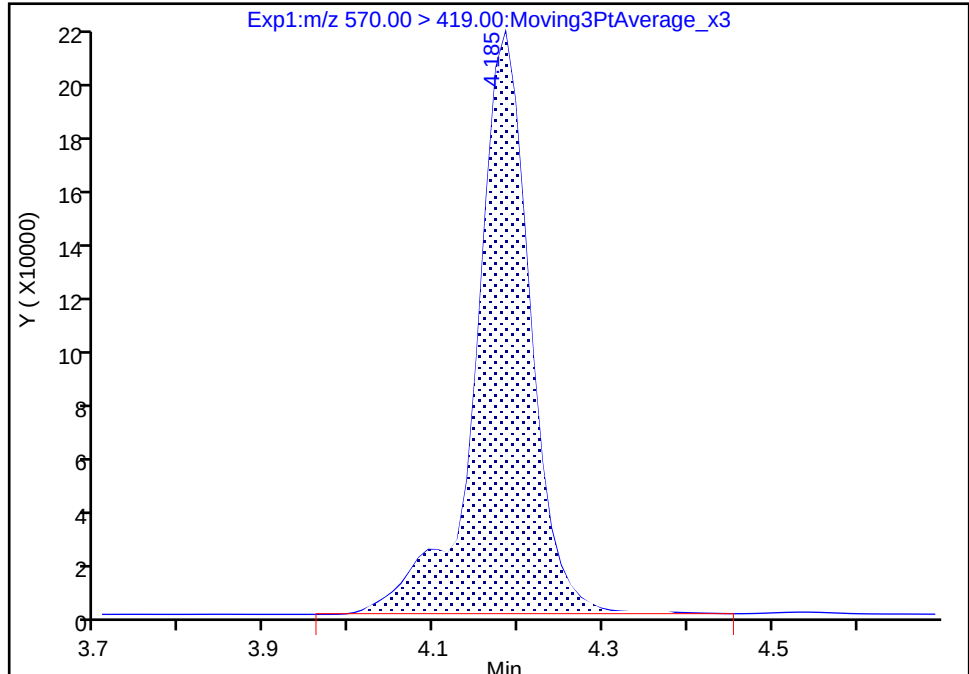
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

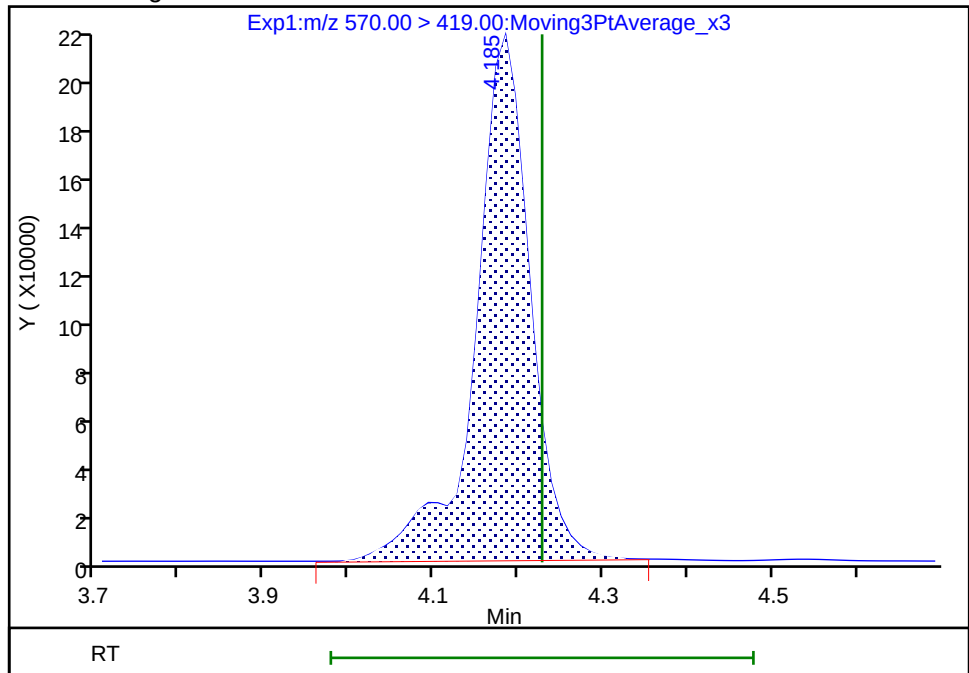
RT: 4.18
Area: 979923
Amount: 2.401456
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 967100
Amount: 2.369879
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:51:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

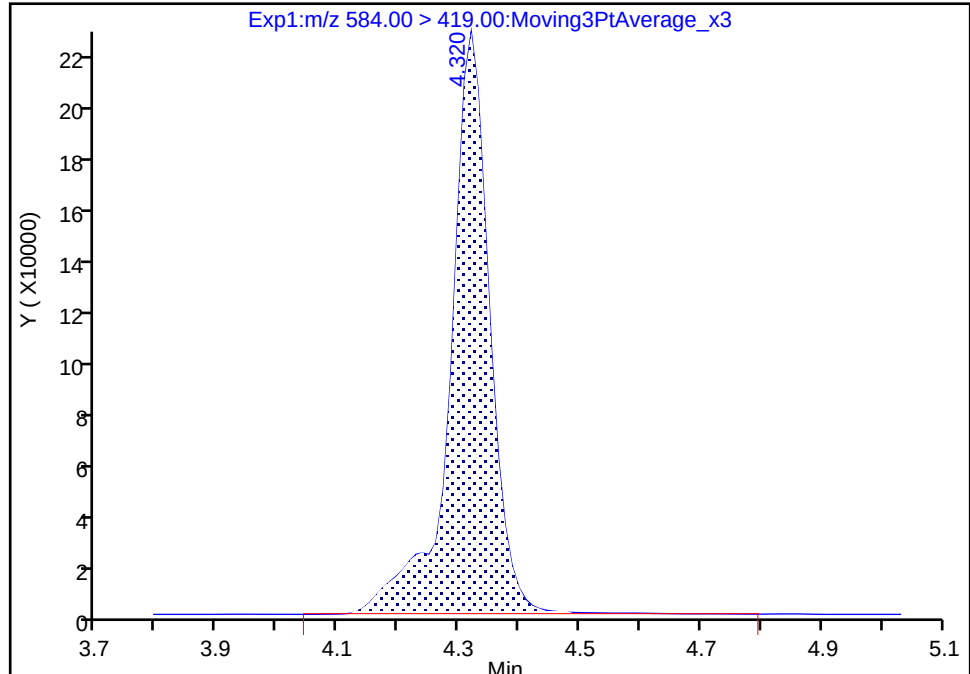
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A31.d
Injection Date: 30-Dec-2022 16:50:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

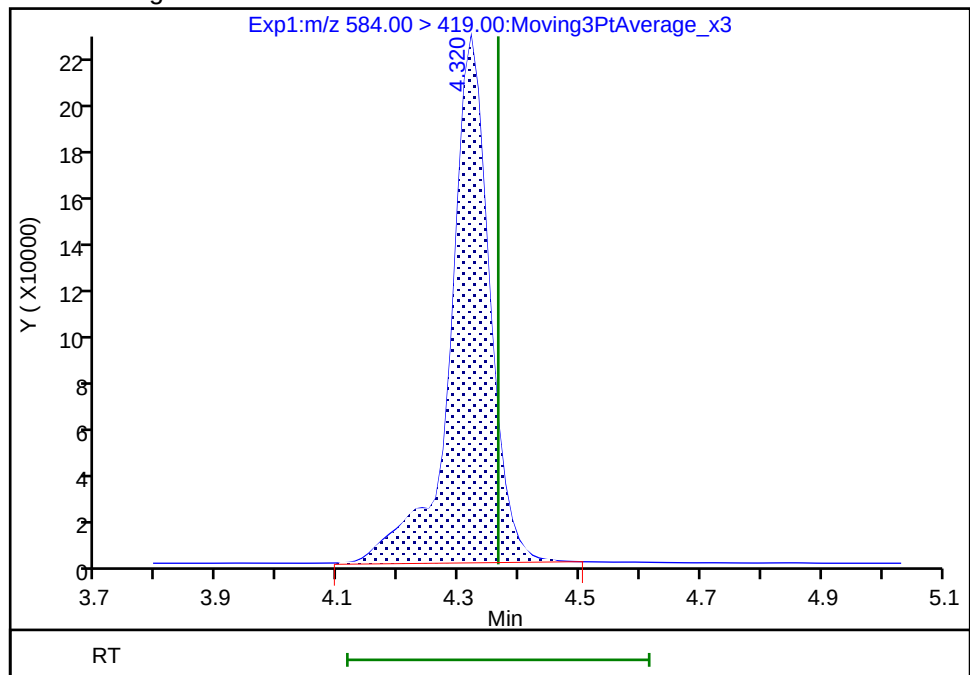
RT: 4.32
Area: 1014528
Amount: 2.466076
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 999807
Amount: 2.430293
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:51:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187179/1 Calibration Date: 12/30/2022 22:25

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230C01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9284		0.900	1.00	-10.0	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9824		0.901	1.00	-9.9	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.042		0.805	0.884	-8.9	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.802		0.849	0.934	-9.0	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9489		0.871	1.00	-12.9	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.202		0.844	0.938	-10.0	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9911		0.939	1.00	-6.1	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.055		0.851	0.910	-6.5	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9848		0.904	1.00	-9.6	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	4.990		0.853	0.942	-9.4	
6:2 FTS	L1ID		2.262		1.00	0.948	5.8	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.250		0.852	0.952	-10.5	
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9817		0.918	1.00	-8.2	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.051		0.802	0.928	-13.6	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9921		0.956	1.00	-4.4	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.675		0.893	0.932	-4.2	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8183		0.856	0.960	-10.8	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9663		0.891	1.00	-10.9	
8:2 FTS	AveID	1.617	1.644		0.974	0.958	1.7	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9211		0.882	1.00	-11.8	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8901		1.02	1.00	2.3	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6608		0.879	0.964	-8.8	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.8903		0.883	1.00	-11.7	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8153		0.911	1.00	-8.9	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.049		0.886	0.942	-5.9	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	1.009		0.952	1.00	-4.8	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.9185		0.911	0.964	-5.5	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2758		0.871	0.968	-10.1	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187179/1 Calibration Date: 12/30/2022 22:25
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221230C01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	1.013	0.9382		0.926	1.00	-7.4	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1232		0.900	1.00	-10.0	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8838		0.944	1.00	-5.6	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.7835		0.951	1.00	-4.9	
13C4 PFBA	Ave	1.122	1.038		1.16	1.25	-7.4	
13C5 PFPeA	Ave	0.8543	0.8296		1.21	1.25	-2.9	
13C3 PFBS	Ave	0.9281	0.9155		1.15	1.16	-1.4	
M2-4:2 FTS	Ave	0.0820	0.0861		1.23	1.17	5.0	
13C2 PFHxA	Ave	0.8951	0.8963		1.25	1.25	0.1	
13C3 HFPO-DA	Ave	0.1580	0.1537		1.22	1.25	-2.7	
18O2 PFHxS	Ave	0.6761	0.6663		1.17	1.18	-1.5	50.0
13C4 PFHpA	Ave	0.9206	0.9219		1.25	1.25	0.1	50.0
M2-6:2 FTS	Ave	0.1134	0.1194		1.25	1.19	5.3	
13C4 PFOA	Ave	1.035	1.028		1.24	1.25	-0.7	50.0
13C4 PFOS	Ave	0.4588	0.4534		1.18	1.20	-1.2	50.0
13C5 PFNA	Ave	1.006	1.029		1.28	1.25	2.4	50.0
13C2 PFDA	Ave	1.025	1.142		1.39	1.25	11.4	
M2-8:2 FTS	Ave	0.1387	0.1511		1.31	1.20	9.0	
13C8 FOSA	Ave	0.8403	0.8776		1.31	1.25	4.4	
d3-NMeFOSAA	Ave	0.2087	0.1990		1.19	1.25	-4.6	
13C2 PFUnA	Ave	0.9385	1.102		1.47	1.25	17.4	
d5-NEtFOSAA	Ave	0.2055	0.2228		1.36	1.25	8.4	
13C2 PFDoA	Ave	0.9562	1.031		1.35	1.25	7.8	
13C2 PFTeDA	Ave	0.8270	0.9744		1.47	1.25	17.8	
13C2 PFHxDA	Ave	1.022	1.168		1.43	1.25	14.2	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-Dec-2022 22:25:36 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053867-001 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:04 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 11:58:51

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	2.110	2.076	0.034	0.630	3042455	1.16		92.6	12517	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.119	2.076	0.043	1.004	2259751	0.9003		90.0	152	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.712	2430730	1.21		97.1	3108	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.386	2.387	-0.001	1.000	1910273	0.9014		90.1	48.7	
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.716	2494658	1.15		98.6	129452	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	1976167	0.8049	Target=2.09	91.1	1821	M
298.90 > 99.00	2.400	2.400	0.0	1.000	941397		2.10(1.04-3.13)		534	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.664	2.689	-0.025	1.000	528027	0.8495		91.0	2877	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.664	2.689	-0.025	0.795	235557	1.23		105	194	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.689	2.725	-0.036	0.802	2626347	1.25		100	3811	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.689	2.725	-0.036	1.000	1993613	0.8708	Target=14.25	87.1	244	M
313.00 > 119.00	2.689	2.725	-0.036	1.000	146669		13.59(7.12-21.37)		209	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.689	2.737	-0.048	0.893	1760965	0.8443	Target=3.04	90.0	1066	
349.00 > 99.00	2.689	2.737	-0.048	0.893	603872		2.92(1.52-4.56)		878	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.786	2.835	-0.049	1.000	357012	0.9386		93.9	1161	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.786	2.835	-0.049	0.831	450281	1.22		97.3	1717	
D 11 18O2 PFHxS										
403.00 > 84.00	3.010	3.088	-0.078	0.898	1846914	1.17		98.5	3251	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.010	3.088	-0.078	1.000	1499343	0.8505	Target=3.66	93.5	1555	M
399.00 > 99.00	3.010	3.088	-0.078	1.000	433748		3.46(1.83-5.49)		559	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.021	3.099	-0.078	0.901	2701114	1.25		100	4167	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.021	3.099	-0.078	1.000	2127942	0.9045	Target=3.97	90.4	362	
363.00 > 169.00	3.021	3.099	-0.078	1.000	533357		3.99(1.98-5.95)		813	
77 DONA										
377.00 > 251.00	3.054	3.132	-0.078	0.836	4995852	0.8535	Target=3.16	90.6	2903	
377.00 > 85.00	3.054	3.132	-0.078	0.836	1617665		3.09(1.58-4.73)		1850	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.439	-0.095	0.997	332377	1.25		105	735	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.344	3.439	-0.095	1.000	600195	1.00		106	852	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.344	3.439	-0.095	0.916	1264711	0.8519	Target=5.14	89.5	2061	
449.00 > 99.00	3.335	3.439	-0.104	0.913	252833		5.00(2.57-7.72)		958	
D 14 13C4 PFOA										
417.00 > 372.00	3.353	3.448	-0.095	1.000	3011578	1.24		99.3	3126	
* 62 13C2 PFOA										
415.00 > 370.00	3.353	3.448	-0.095		2930050	1.25			3934	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.353	3.448	-0.095	1.000	2365268	0.9183	Target=2.79	91.8	161	M
413.00 > 169.00	3.353	3.448	-0.095	1.000	830038		2.85(1.40-4.19)		910	M
D 18 13C4 PFOS										
503.00 > 80.00	3.652	3.764	-0.112	1.089	1270170	1.18		98.8	2617	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.652	3.764	-0.112	1.000	1036281	0.8017	Target=5.11	86.4	731	M
499.00 > 99.00	3.652	3.764	-0.112	1.000	237360		4.37(2.55-7.66)		565	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.679	3.783	-0.104	1.000	2394225	0.9564	Target=8.55	95.6	458	
463.00 > 169.00	3.679	3.783	-0.104	1.000	270763		8.84(4.28-12.83)		1751	
D 19 13C5 PFNA										
468.00 > 423.00	3.679	3.783	-0.104	1.097	3016476	1.28		102	5374	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.821	3.928	-0.107	1.046	2649457	0.8931		95.8	3368	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.950	4.050	-0.100	1.082	835005	0.8558	Target=2.53	89.2	1588	
549.00 > 99.00	3.950	4.050	-0.100	1.082	345136		2.42(1.27-3.80)		1167	
D 23 13C2 PFDA										
515.00 > 470.00	3.969	4.081	-0.112	1.184	3345482	1.39		111	5779	

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	3.969	4.081	-0.112	1.000	2586130	0.8910	Target=10.26	89.1	851	
513.00 > 169.00	3.969	4.081	-0.112	1.000	244386		10.58(5.13-15.38)		762	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.978	4.093	-0.115	1.186	424183	1.30		109	1063	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	3.978	4.093	-0.115	1.000	557947	0.9741		102	3347	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.032	4.150	-0.118	1.000	1894882	0.8817		88.2	1870	
D 21 13C8 FOSA										
506.00 > 78.00	4.032	4.150	-0.118	1.203	2571406	1.31		104	2574	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.115	4.228	-0.113	1.228	583074	1.19		95.4	1940	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.115	4.228	-0.113	1.000	415174	1.02		102	436	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.207	4.331	-0.124	1.152	677080	0.8789	Target=2.51	91.2	2919	
599.00 > 99.00	4.207	4.331	-0.124	1.152	274757		2.46(1.25-3.76)		1365	
D 30 13C2 PFUnA										
565.00 > 520.00	4.238	4.353	-0.115	1.264	3229737	1.47		117	3765	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.238	4.353	-0.115	1.000	2300333	0.8834	Target=9.88	88.3	725	M
563.00 > 169.00	4.238	4.353	-0.115	1.000	219216		10.49(4.94-14.82)		1187	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.249	4.365	-0.116	1.000	425729	0.9107		91.1	818	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.249	4.365	-0.116	1.267	652692	1.36		108	1104	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.331	4.454	-0.123	1.186	4053670	0.8864		94.1	3548	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.465	4.591	-0.126	1.000	2438460	0.9522	Target=7.77	95.2	794	M
613.00 > 169.00	4.465	4.591	-0.126	1.000	310181		7.86(3.89-11.66)		1697	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.465	4.591	-0.126	1.332	3021398	1.35		108	2493	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.491	4.612	-0.121	1.129	313653	0.9113		94.5	1092	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.654	4.776	-0.122	1.274	283787	0.8707	Target=0.50	89.9	1561	
699.00 > 99.00	4.643	4.776	-0.133	1.271	553972		0.51(0.25-0.76)		4276	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.683	4.804	-0.121	1.049	2267646	0.9259	Target=5.21	92.6	558	M
663.00 > 169.00	4.683	4.804	-0.121	1.049	403203		5.62(2.60-7.81)		1534	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.880	5.012	-0.132	1.000	281444	0.9001	Target=0.89	90.0	2068	
713.00 > 219.00	4.880	5.012	-0.132	1.000	289503		0.97(0.44-1.33)		1787	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.880	5.012	-0.132	1.456	2854895	1.47		118	4176	

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	5.242	5.367	-0.125	1.000	2419962	0.9441	Target=5.65	94.4	165	
813.00 > 169.00	5.242	5.367	-0.125	1.000	391821		6.18(2.82-8.47)		1625	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.242	5.367	-0.125	1.563	3422568	1.43		114	4314	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.586	5.722	-0.136	1.066	2145308	0.9513	Target=6.24	95.1	201	M
913.00 > 169.00	5.586	5.722	-0.136	1.066	308412		6.96(3.12-9.36)		914	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d

Injection Date: 30-Dec-2022 22:25:36

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

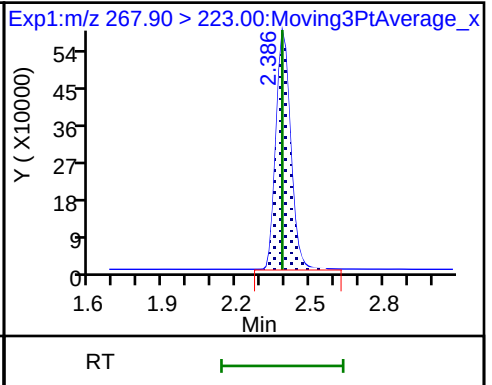
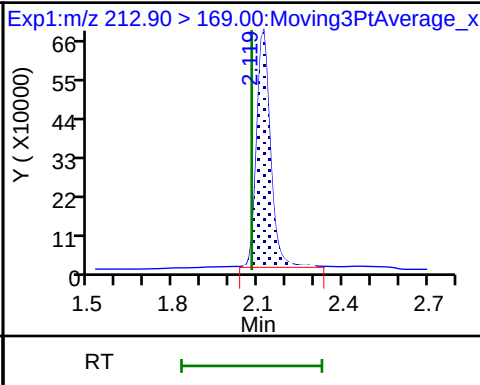
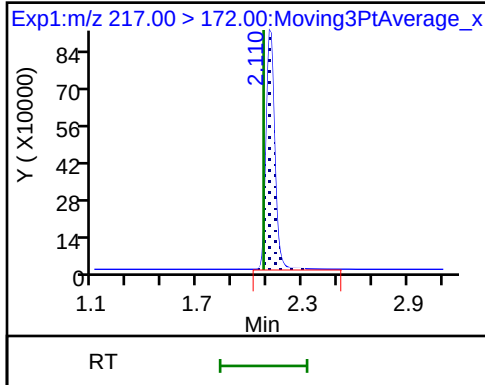
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

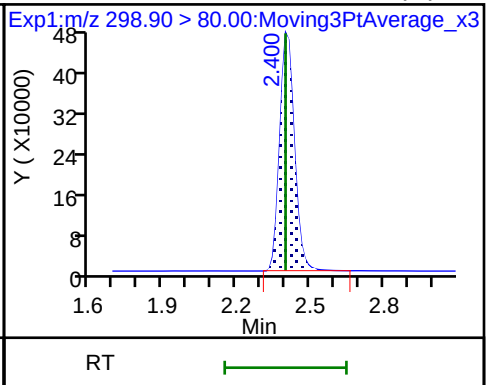
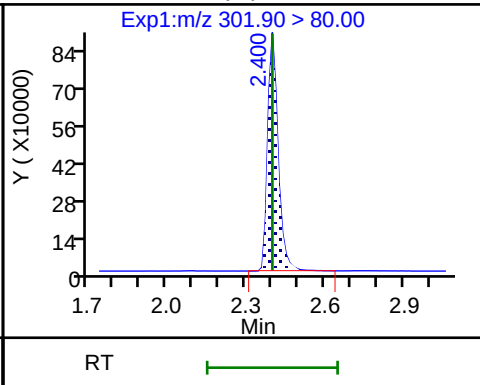
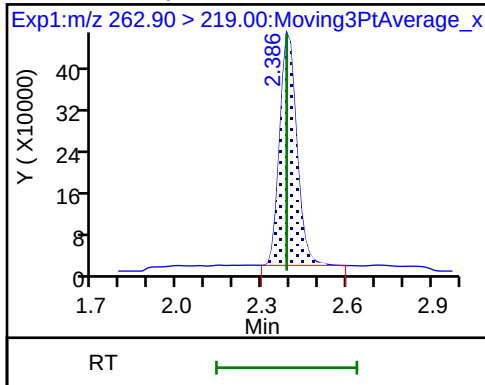
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

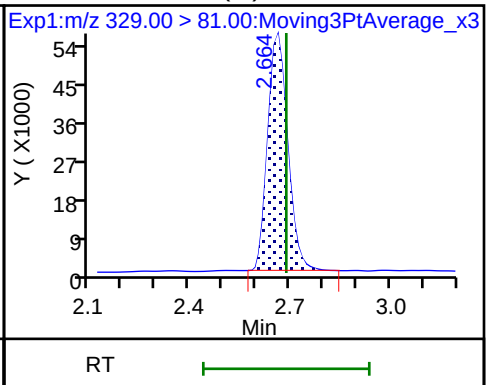
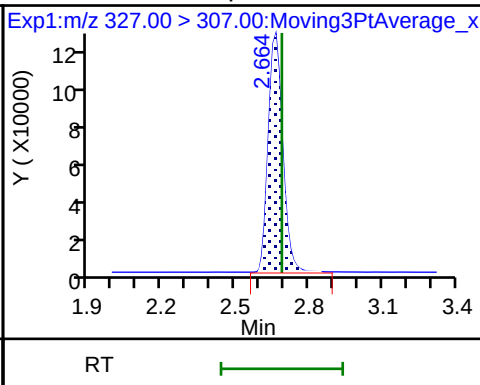
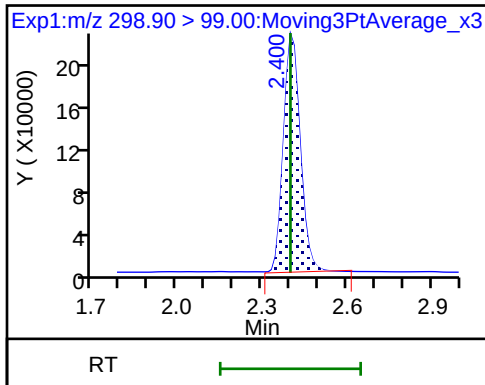
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

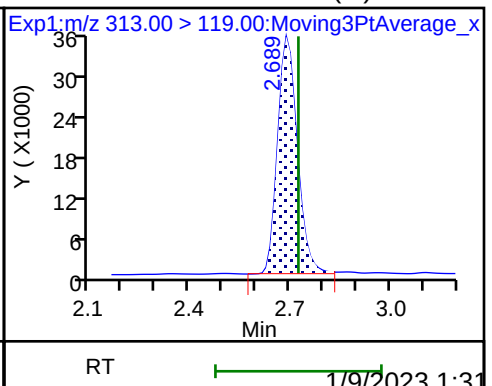
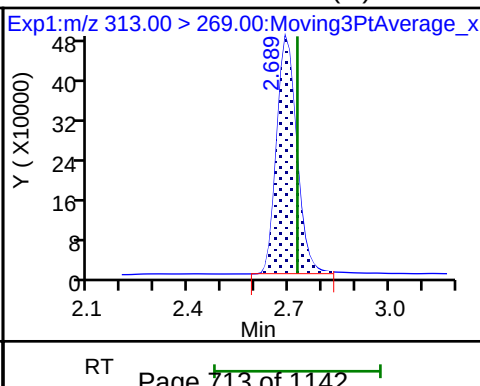
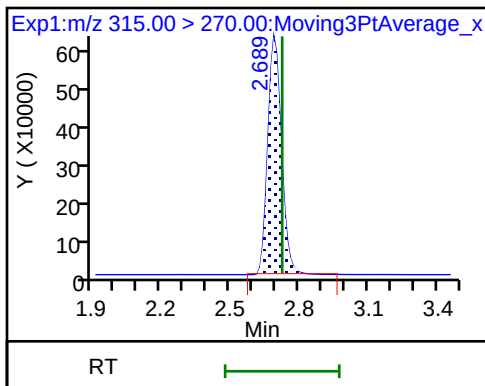
D 60 M2-4:2 FTS (M)

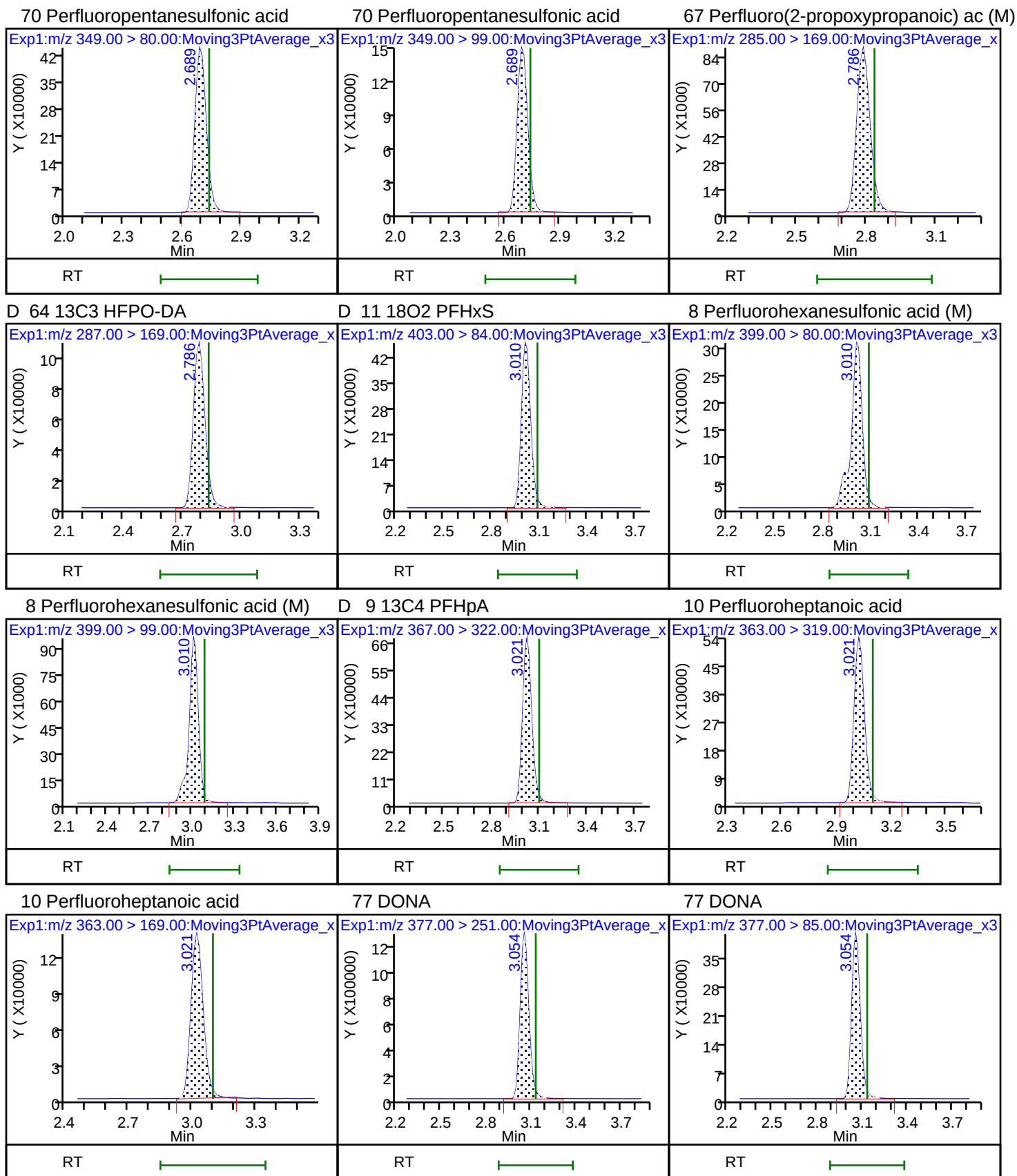


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

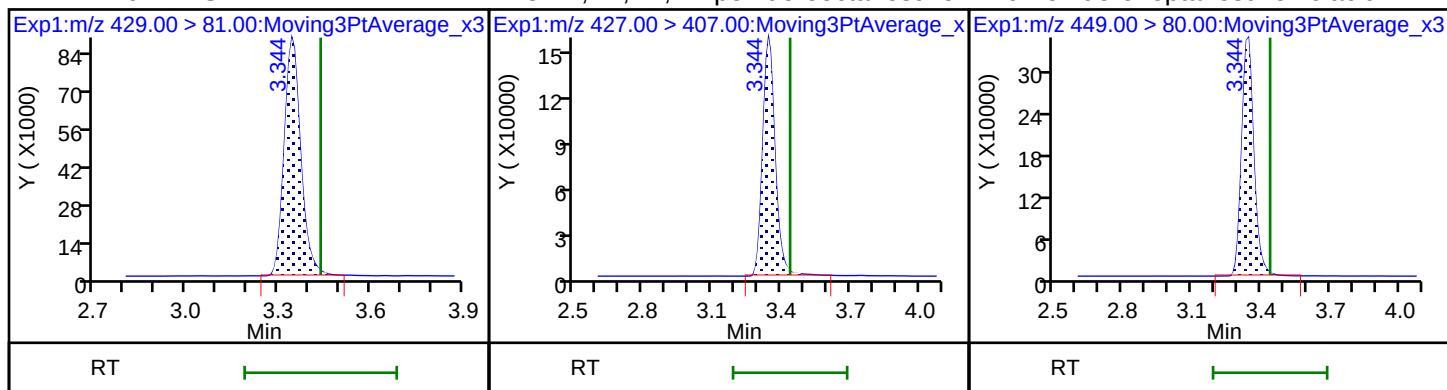




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

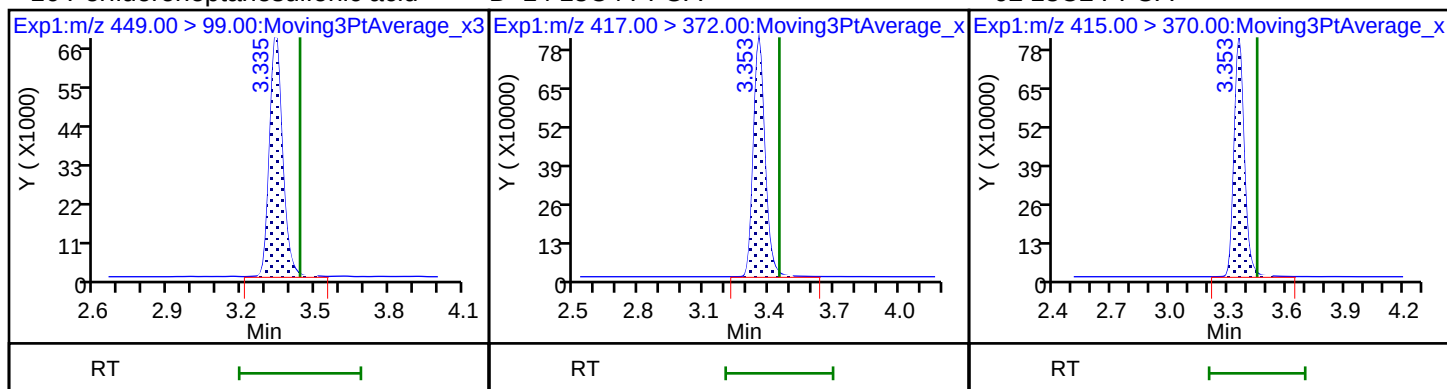
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

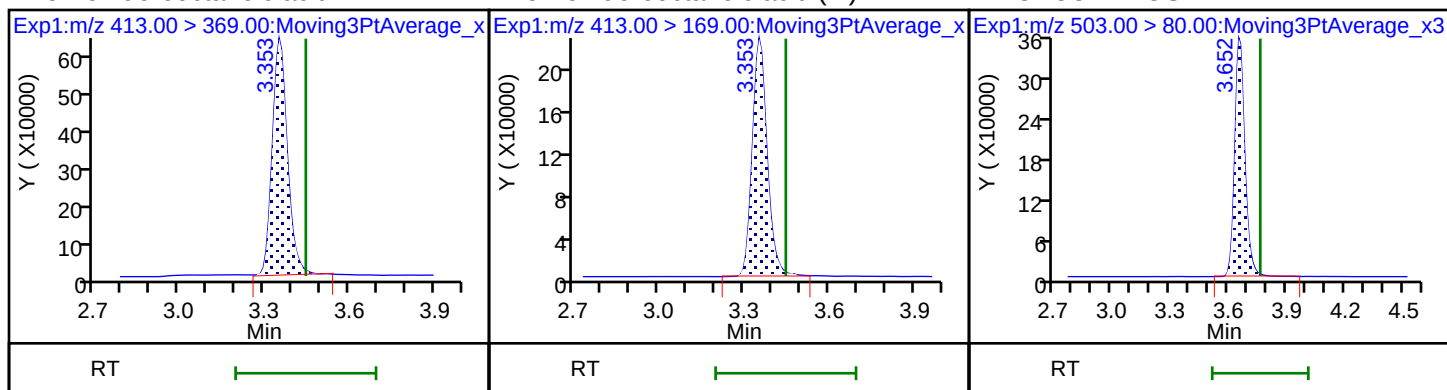
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

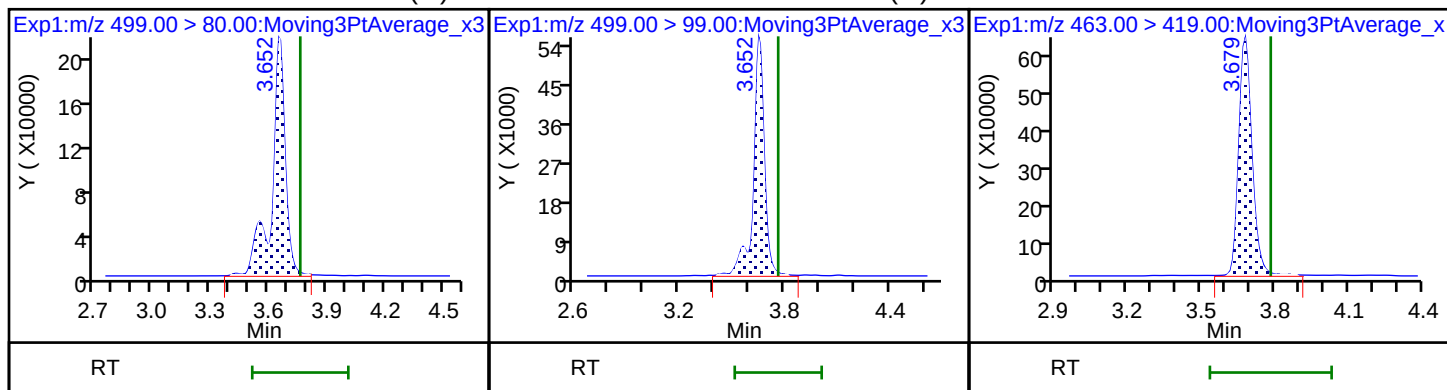
D 18 13C4 PFOS

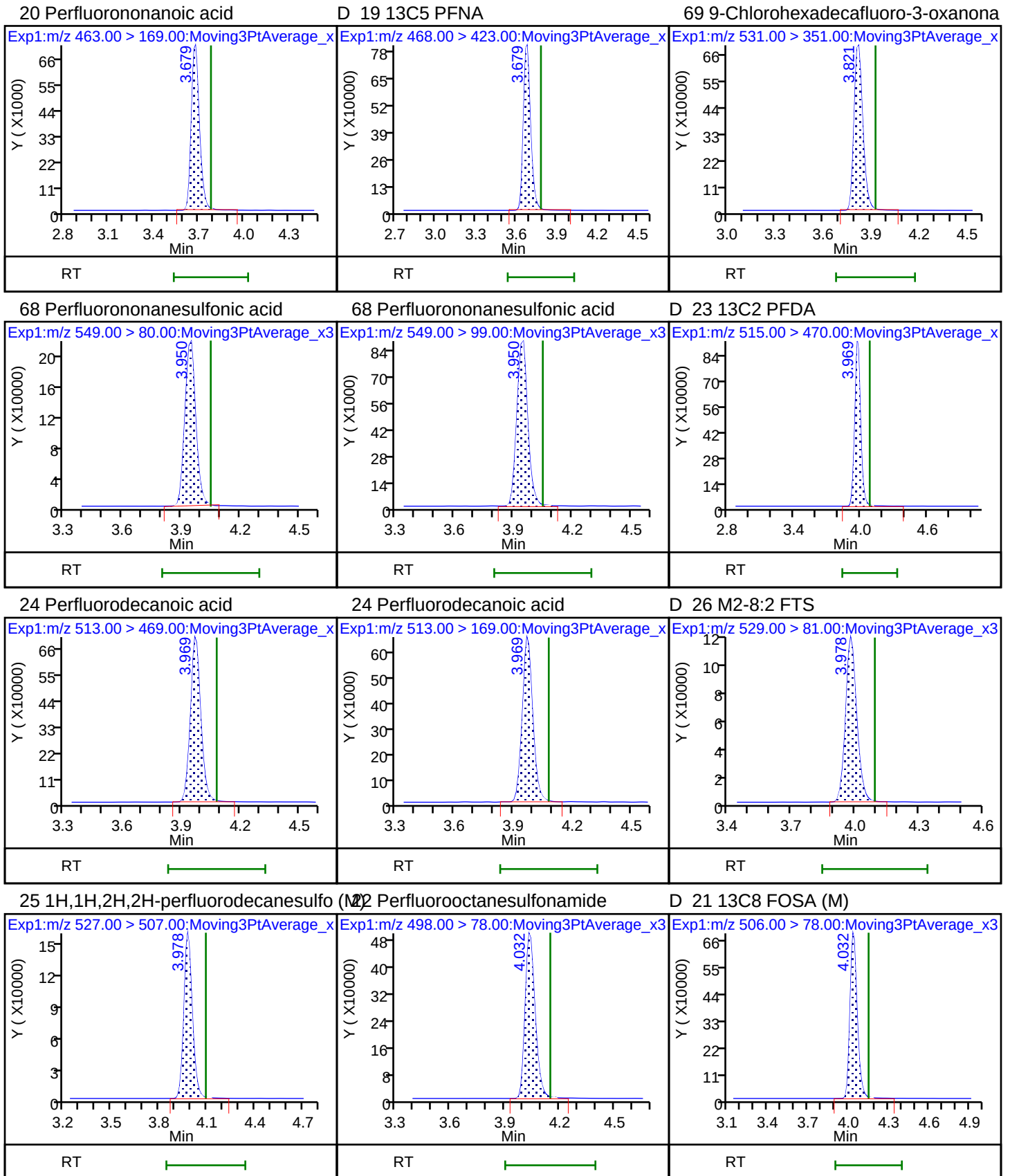


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

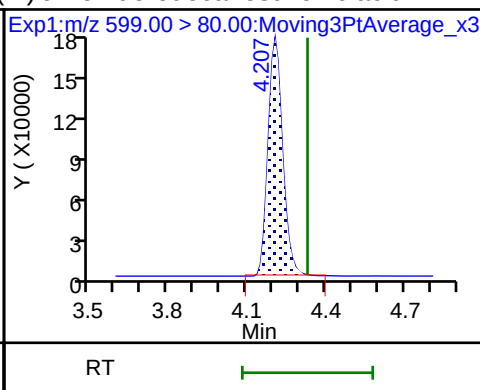
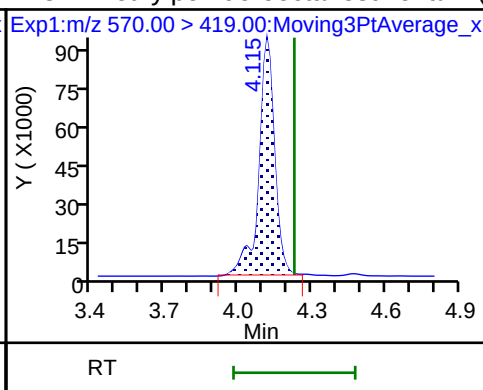
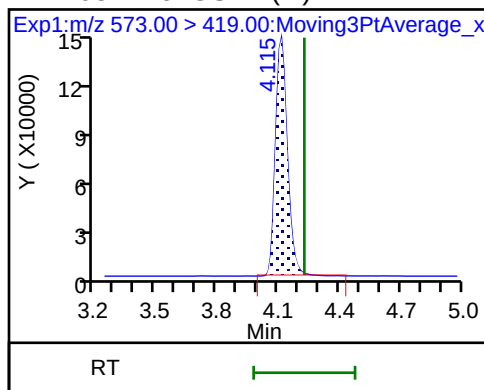




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

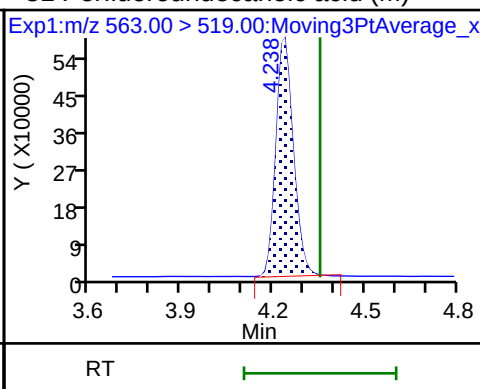
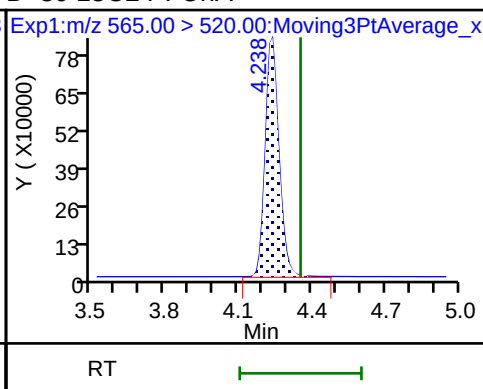
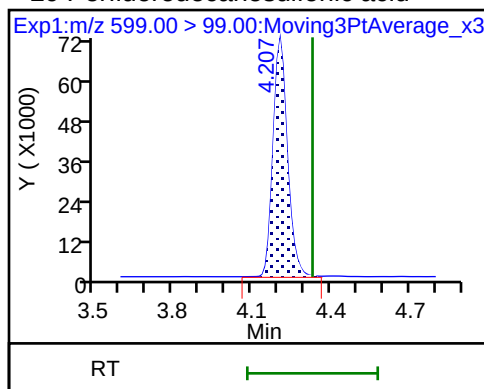
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

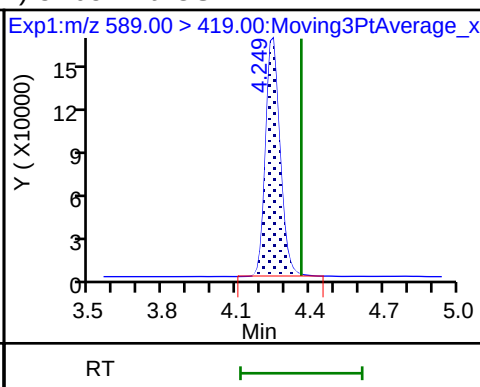
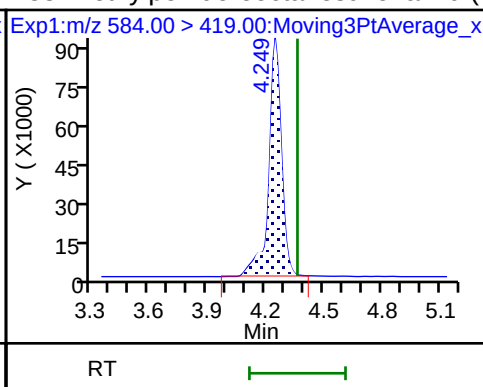
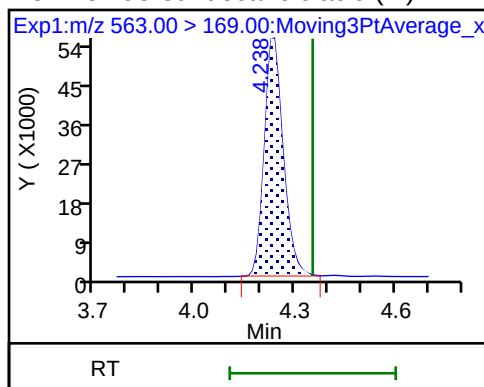
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

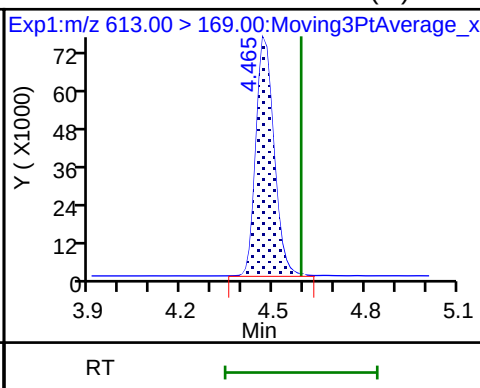
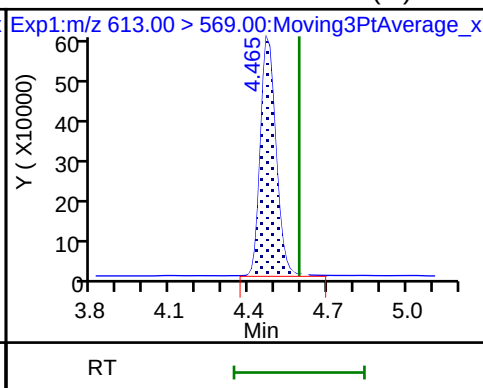
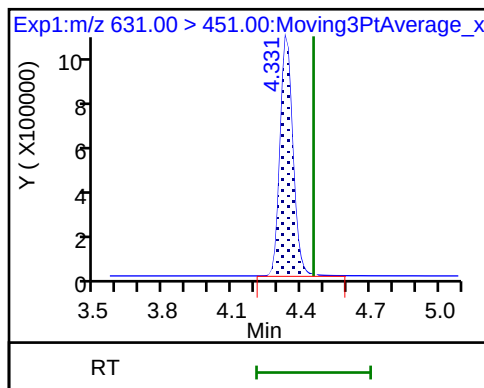
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

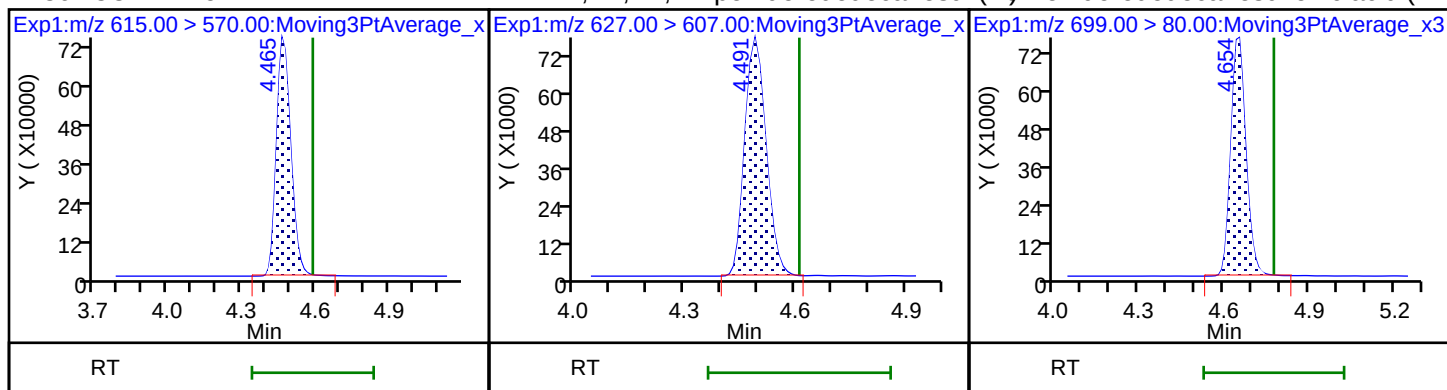
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



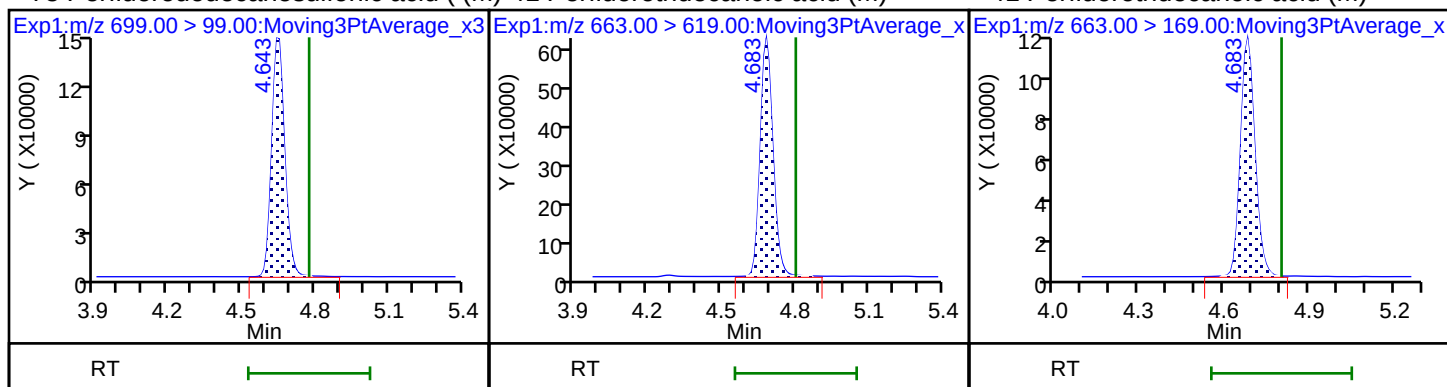
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

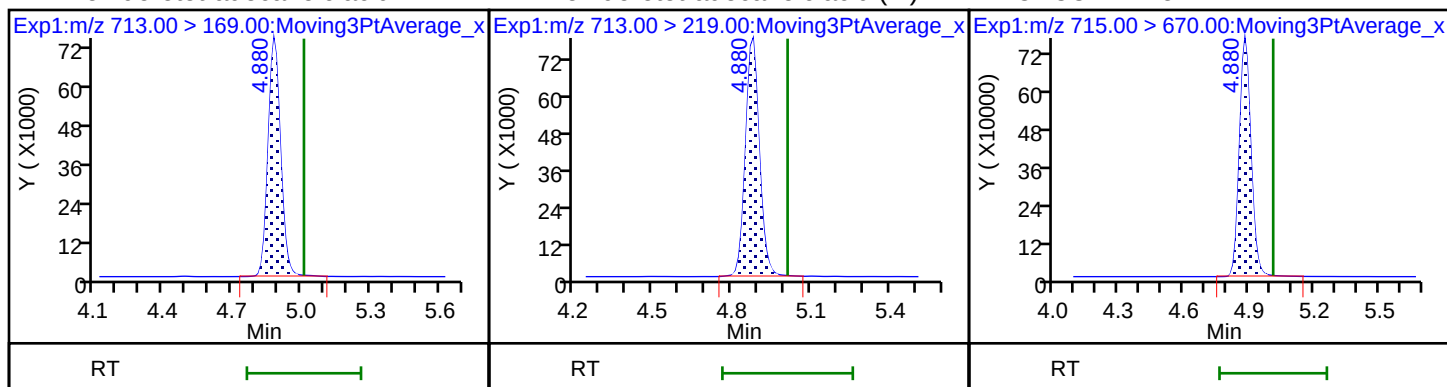
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

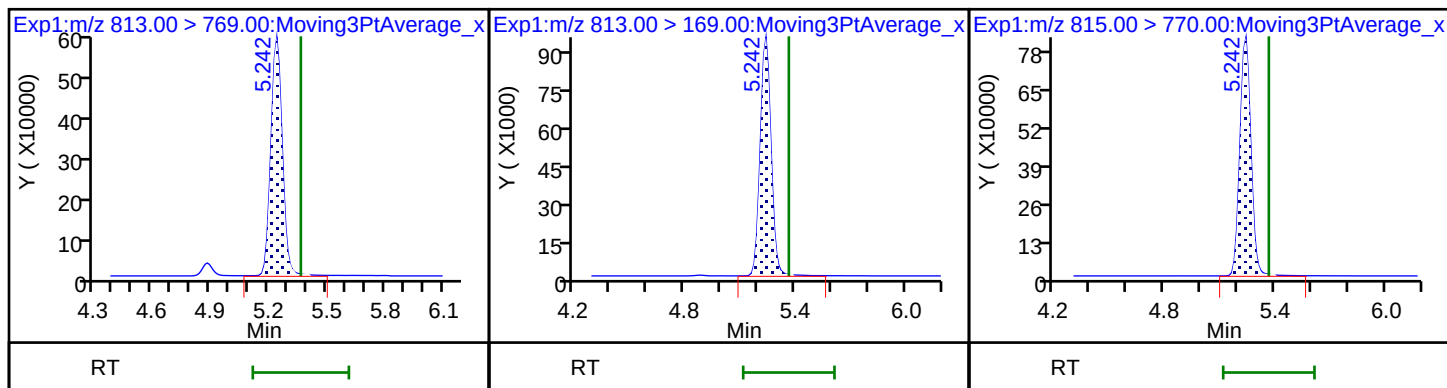
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

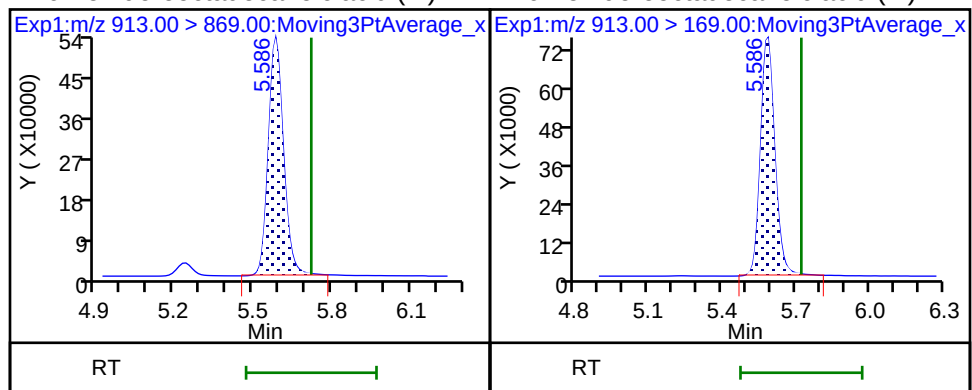
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

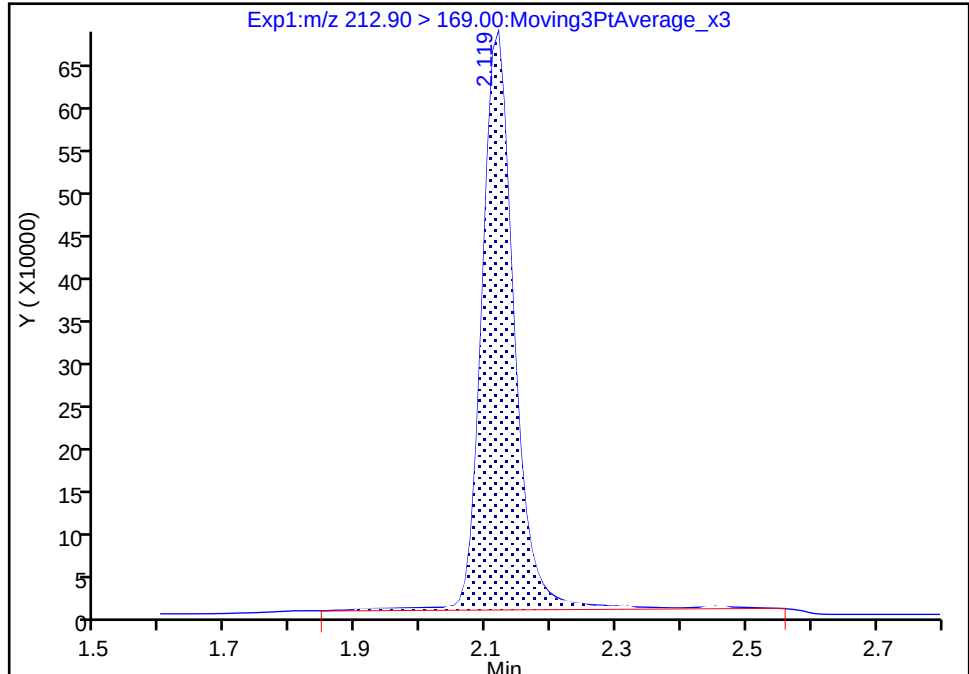
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

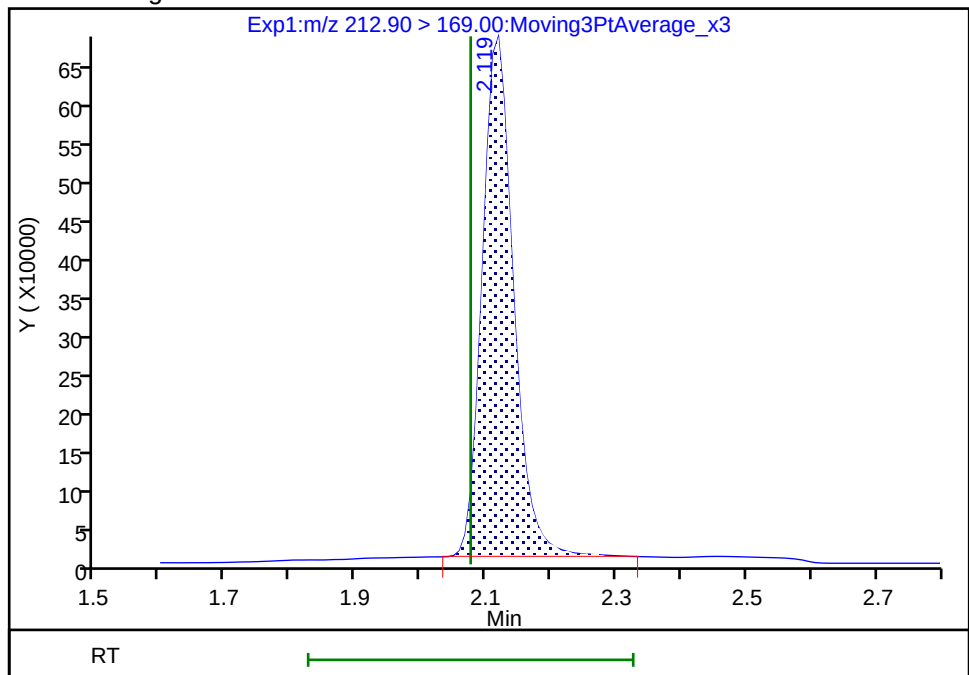
RT: 2.12
Area: 2362722
Amount: 0.941363
Amount Units: ng/ml

Processing Integration Results



RT: 2.12
Area: 2259751
Amount: 0.900337
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

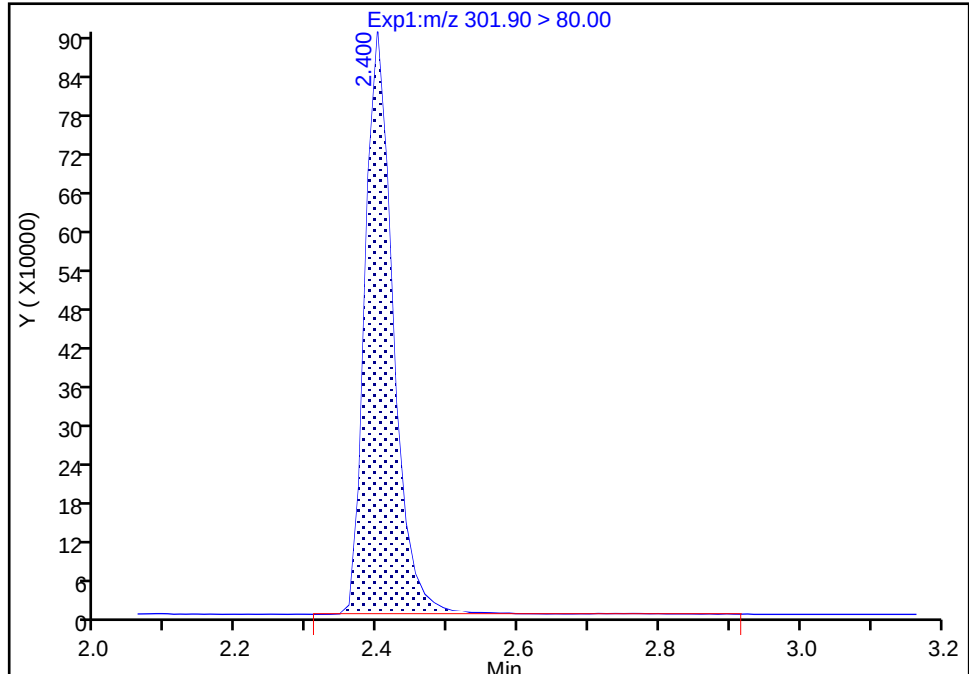
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

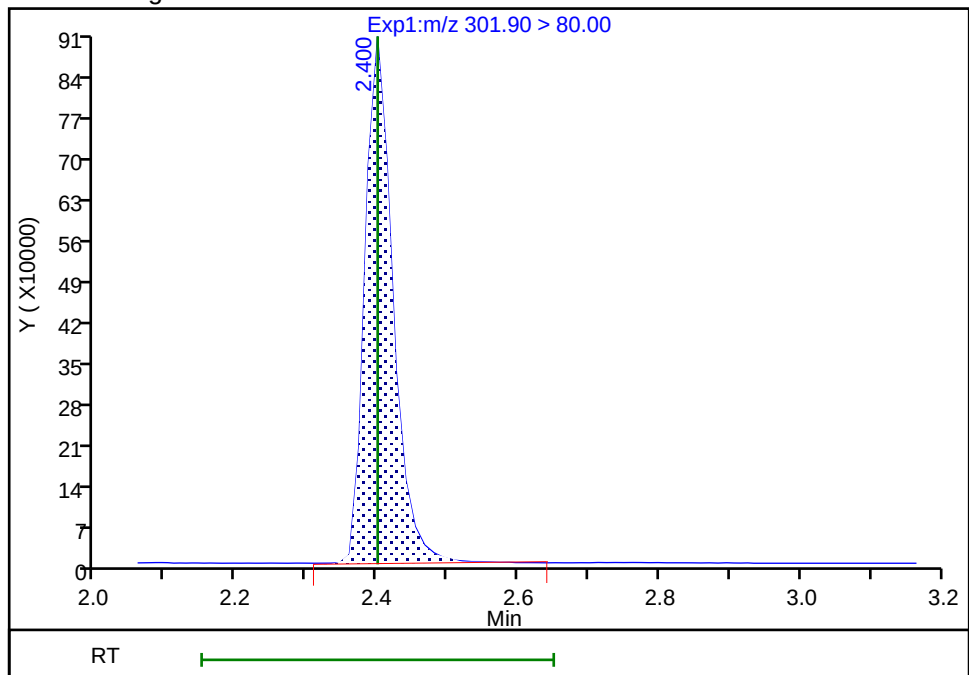
RT: 2.40
Area: 2510426
Amount: 1.153904
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2494658
Amount: 1.146657
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:53:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

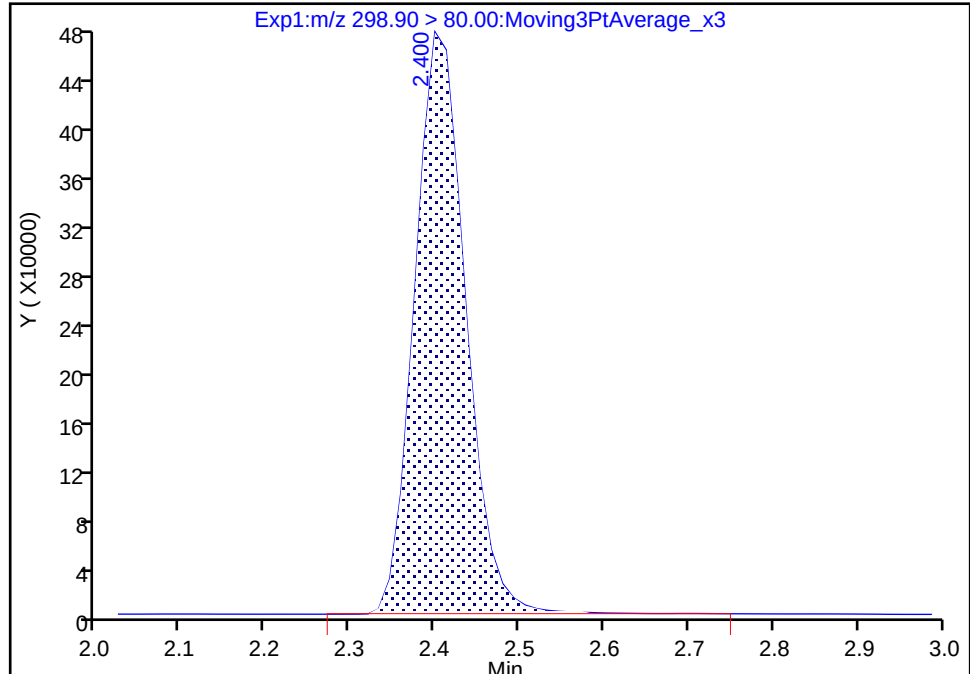
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

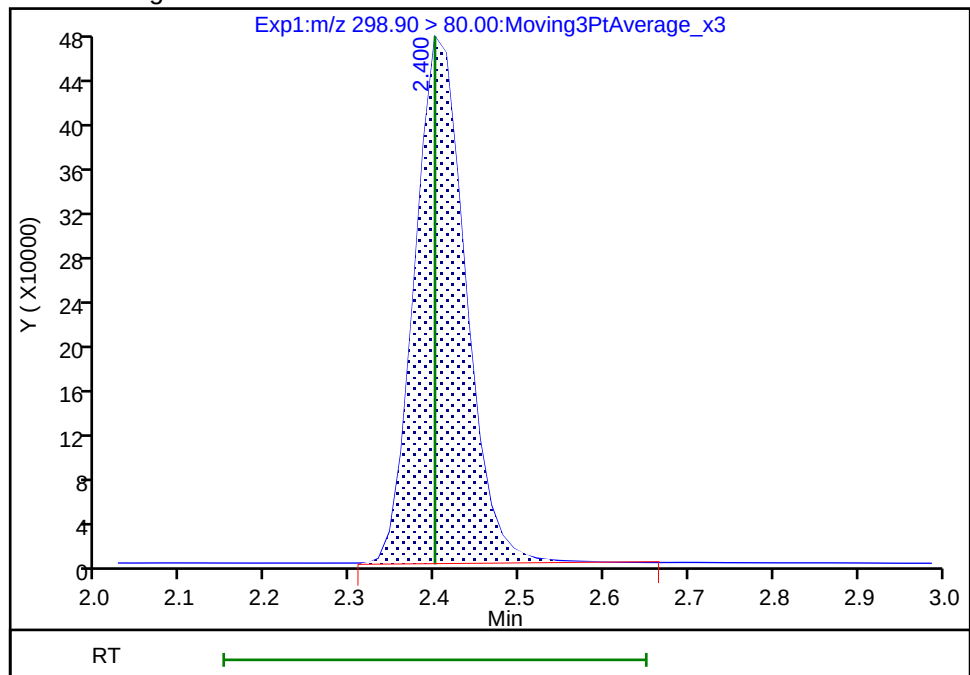
RT: 2.40
Area: 1979708
Amount: 0.806353
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1976167
Amount: 0.804910
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

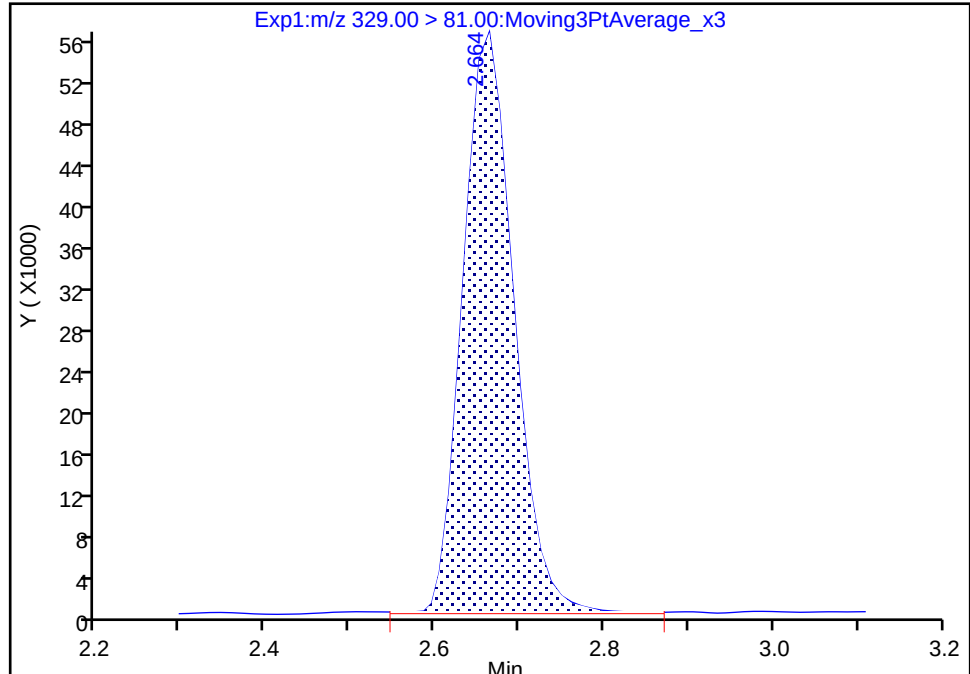
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

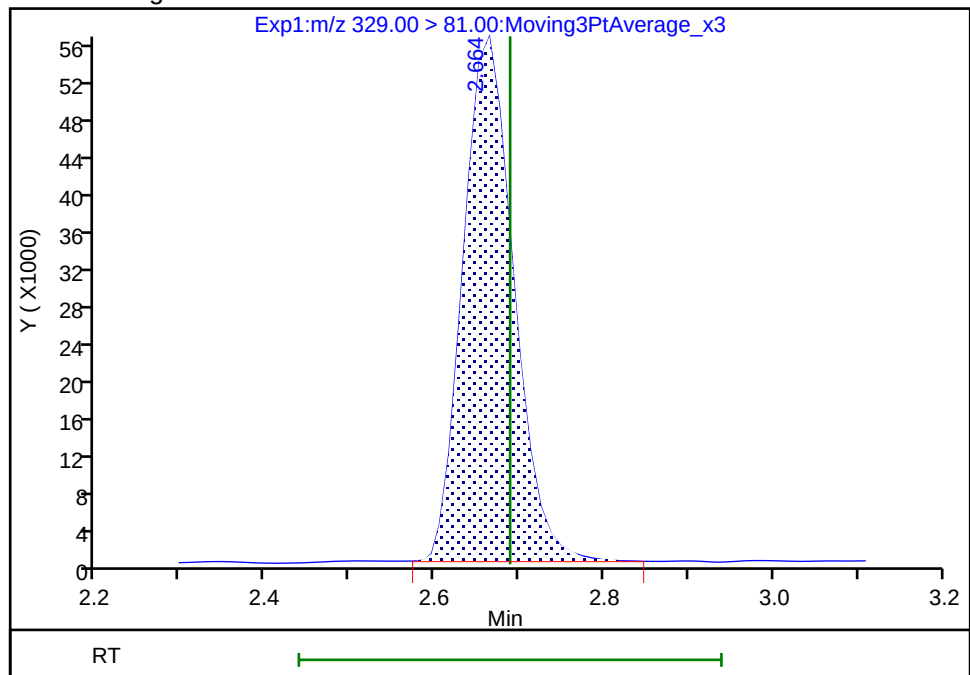
RT: 2.66
Area: 238607
Amount: 1.241193
Amount Units: ng/ml

Processing Integration Results



RT: 2.66
Area: 235557
Amount: 1.225327
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

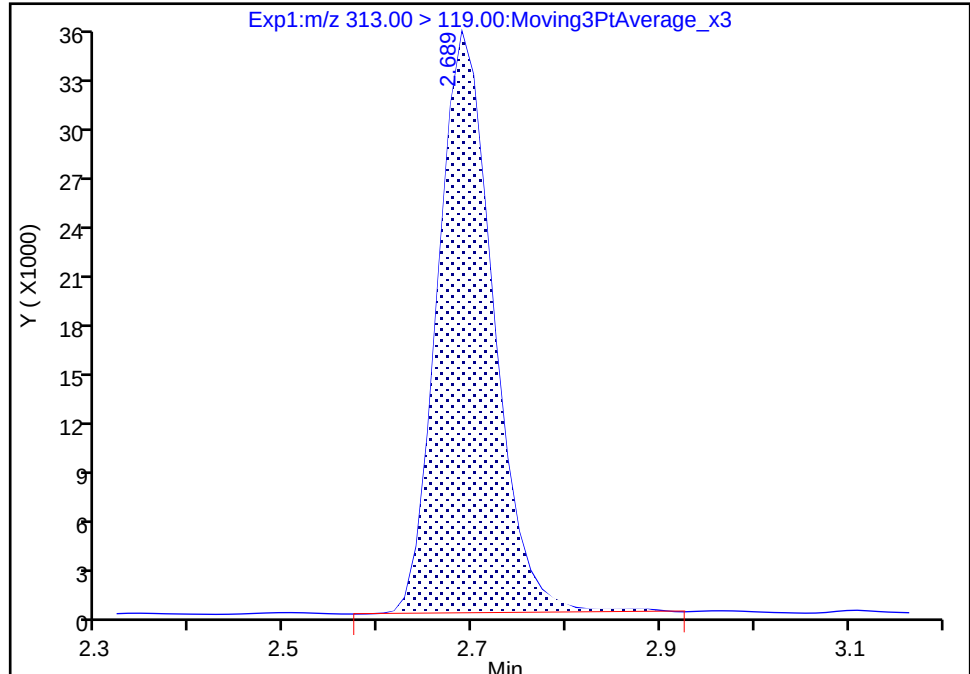
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

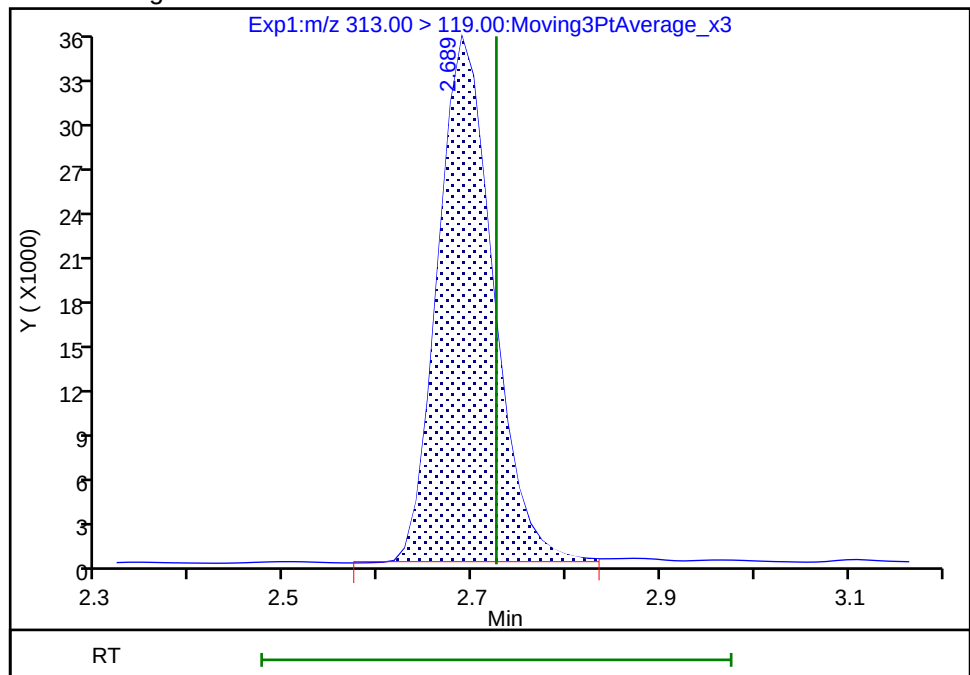
RT: 2.69
Area: 147409
Amount: 0.874229
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 146669
Amount: 0.870818
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

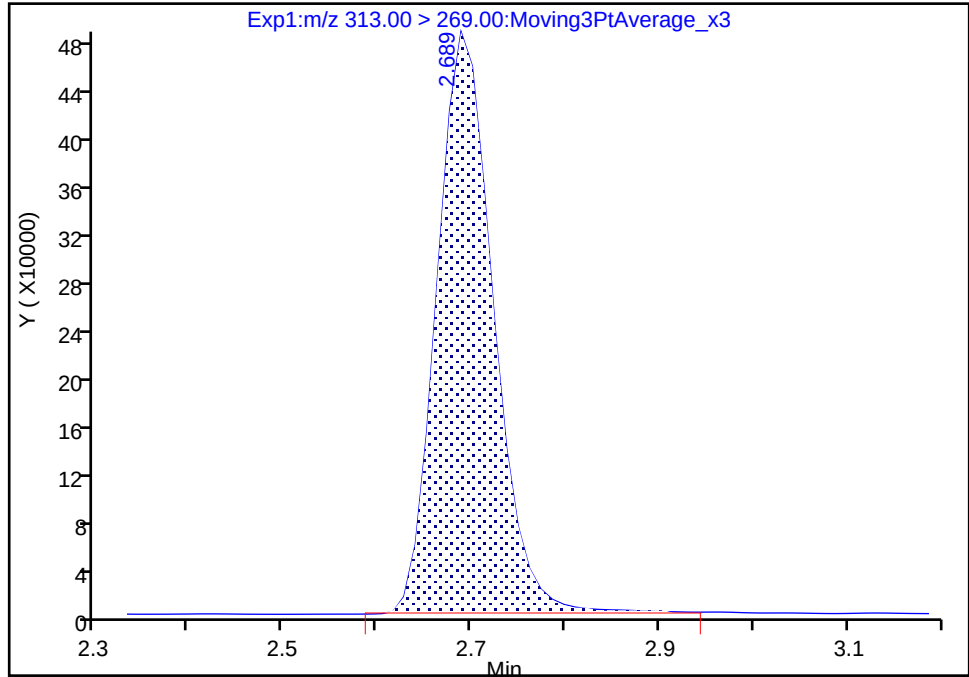
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

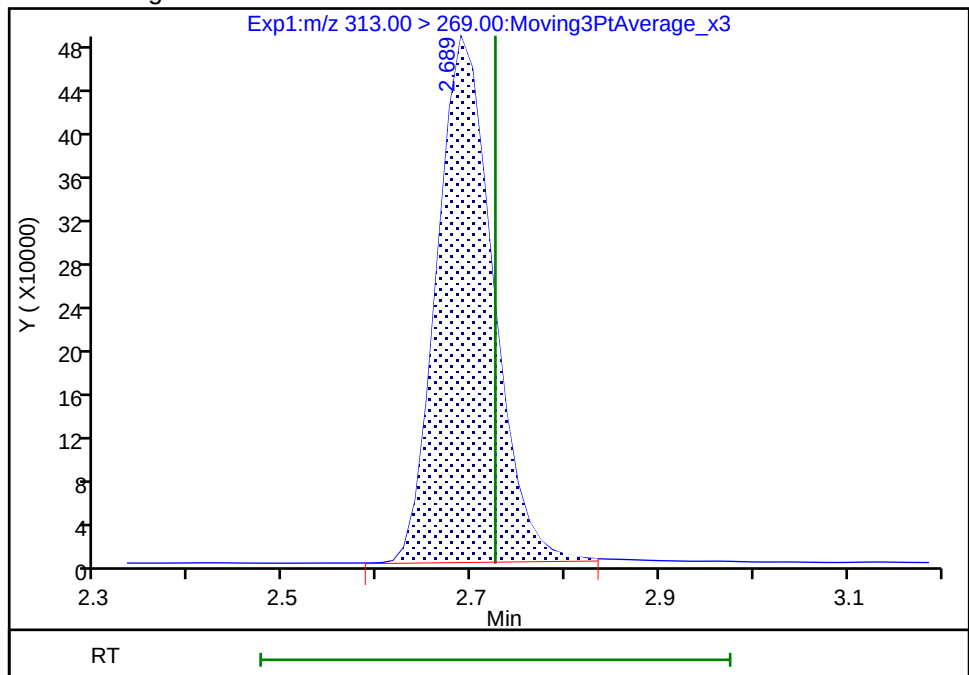
RT: 2.69
Area: 2001422
Amount: 0.874229
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 1993613
Amount: 0.870818
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

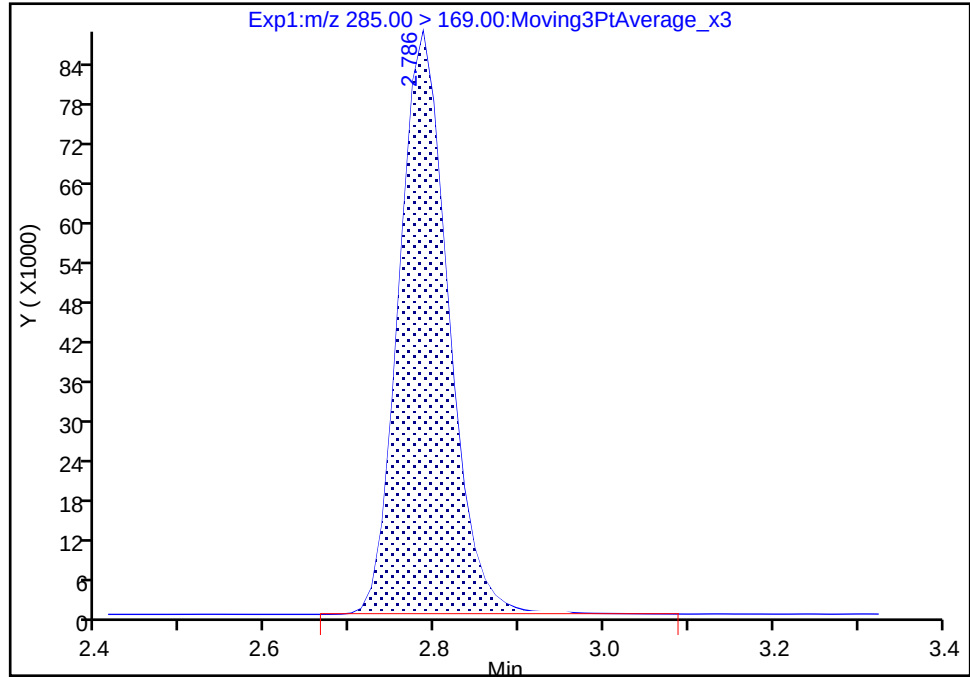
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

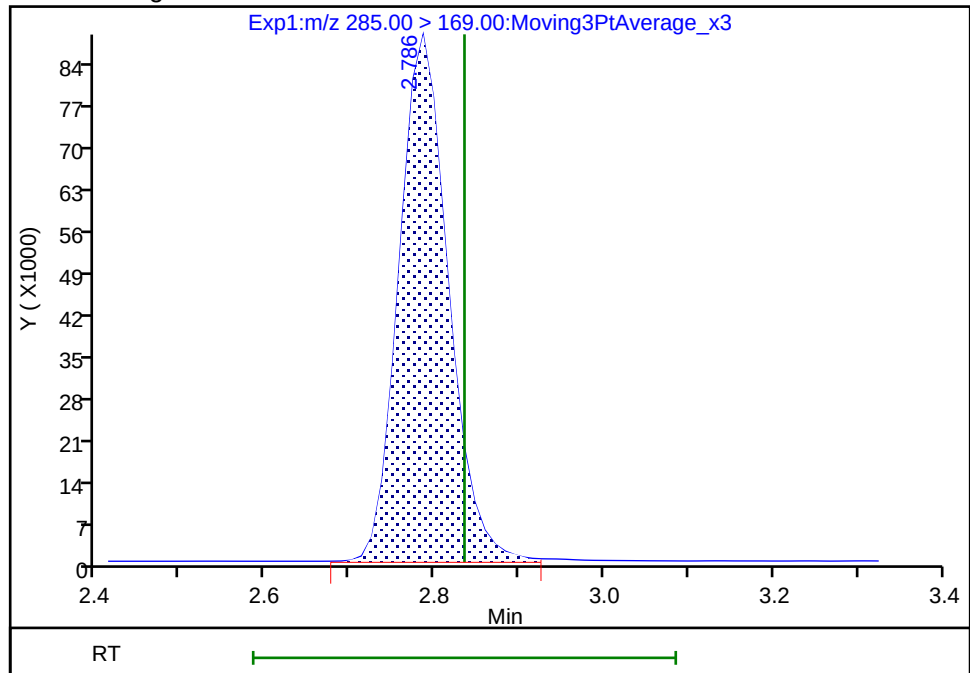
RT: 2.79
Area: 358609
Amount: 0.942793
Amount Units: ng/ml

Processing Integration Results



RT: 2.79
Area: 357012
Amount: 0.938595
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:55:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

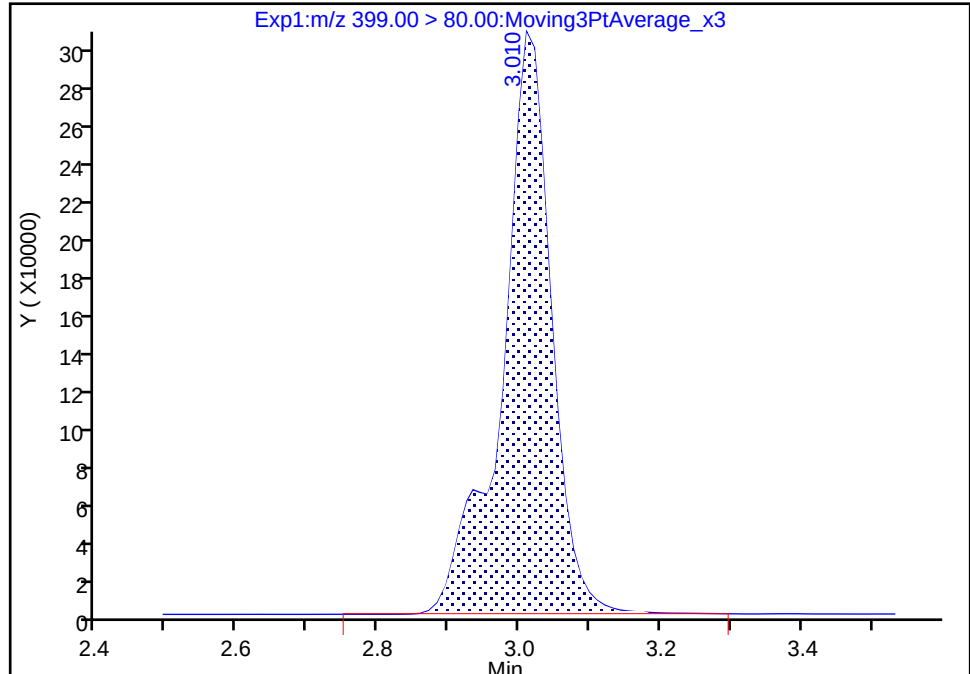
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

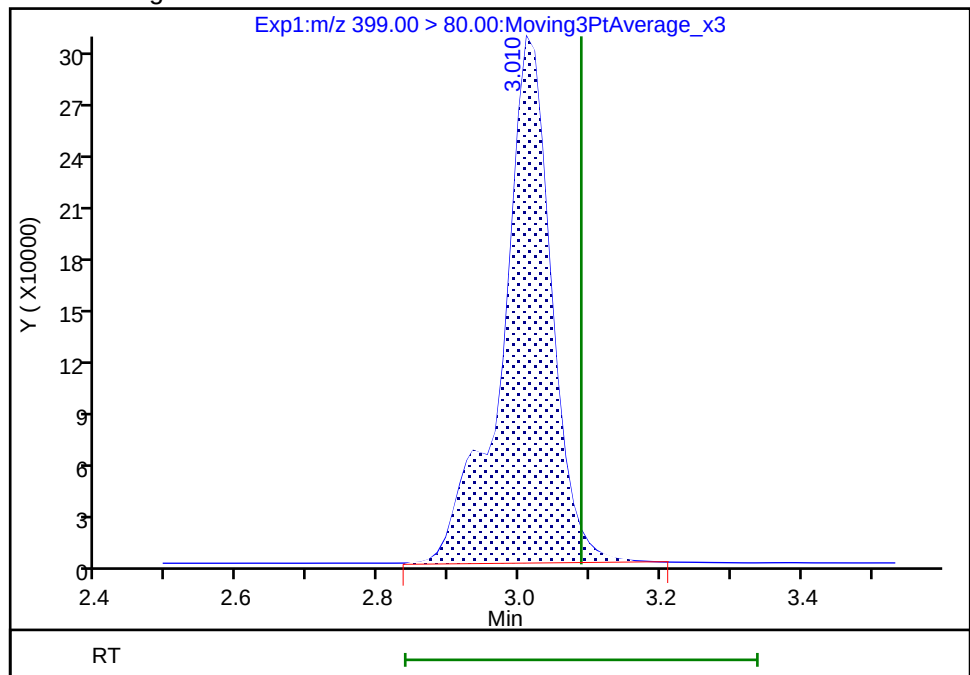
RT: 3.01
Area: 1505450
Amount: 0.854002
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 1499343
Amount: 0.850538
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:55:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

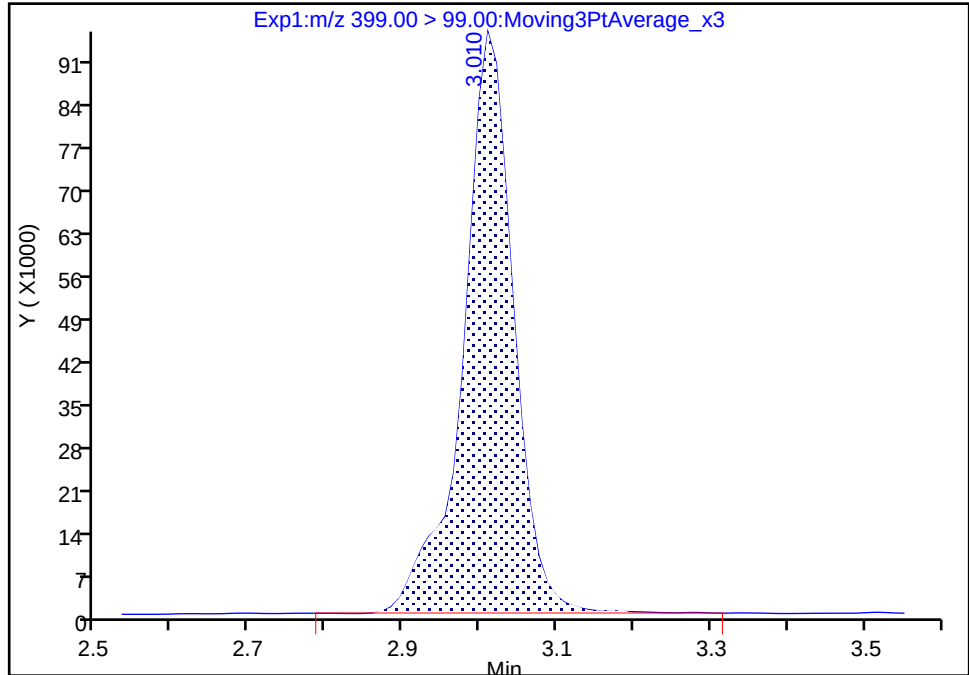
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

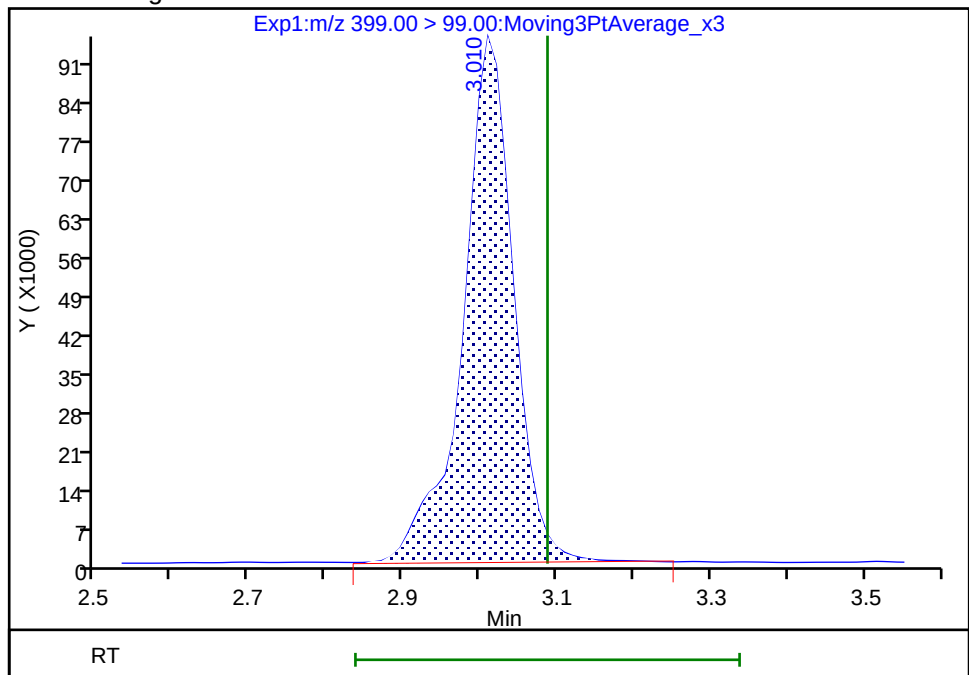
RT: 3.01
Area: 434973
Amount: 0.854002
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 433748
Amount: 0.850538
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:55:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

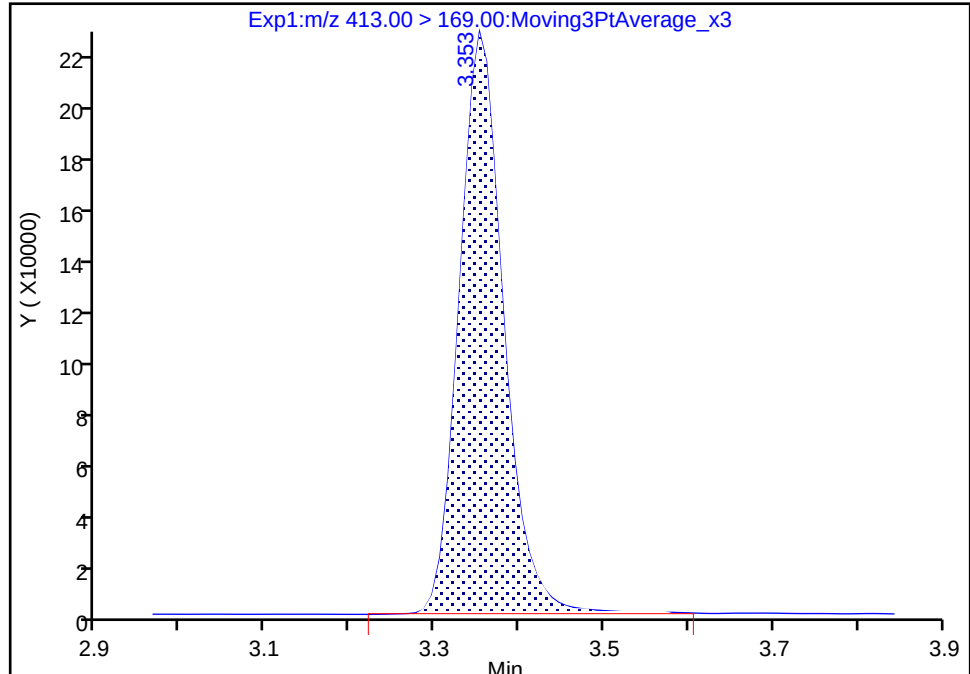
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

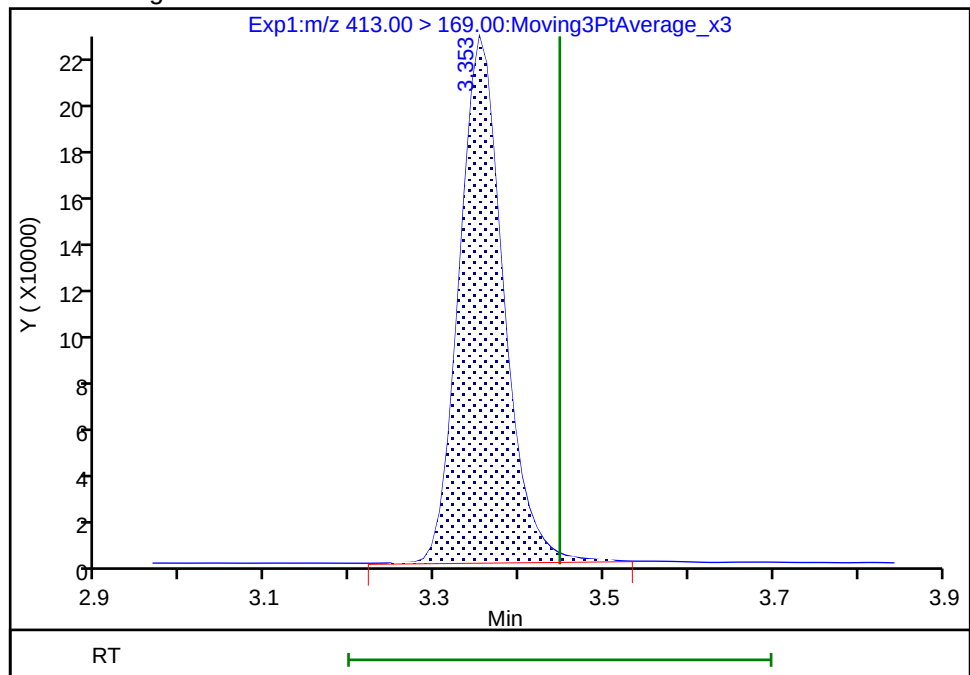
RT: 3.35
Area: 829867
Amount: 0.918340
Amount Units: ng/ml

Processing Integration Results



RT: 3.35
Area: 830038
Amount: 0.918340
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:55:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

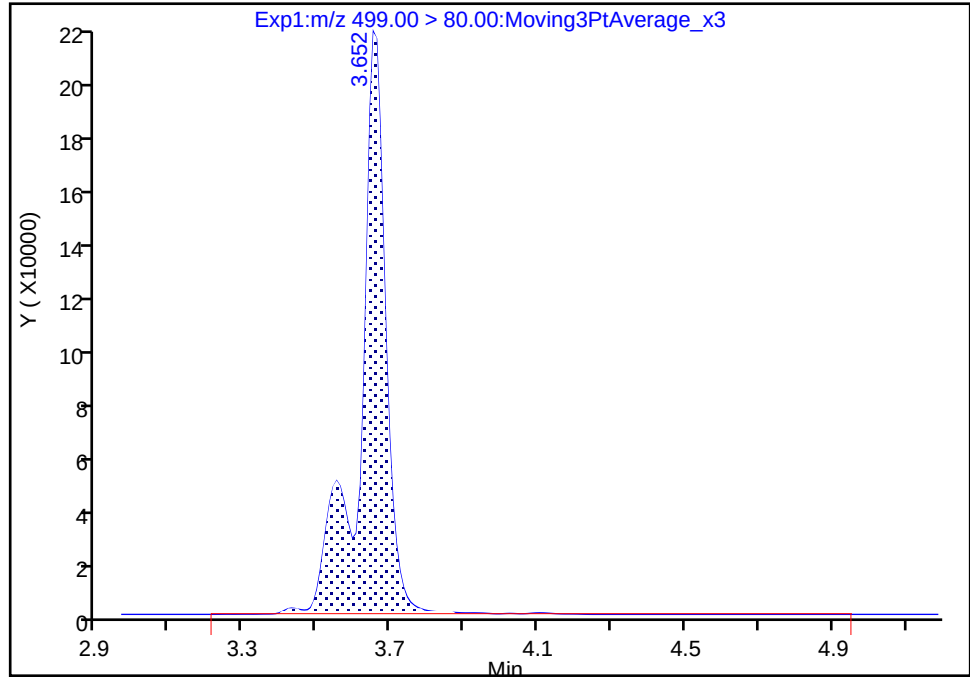
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

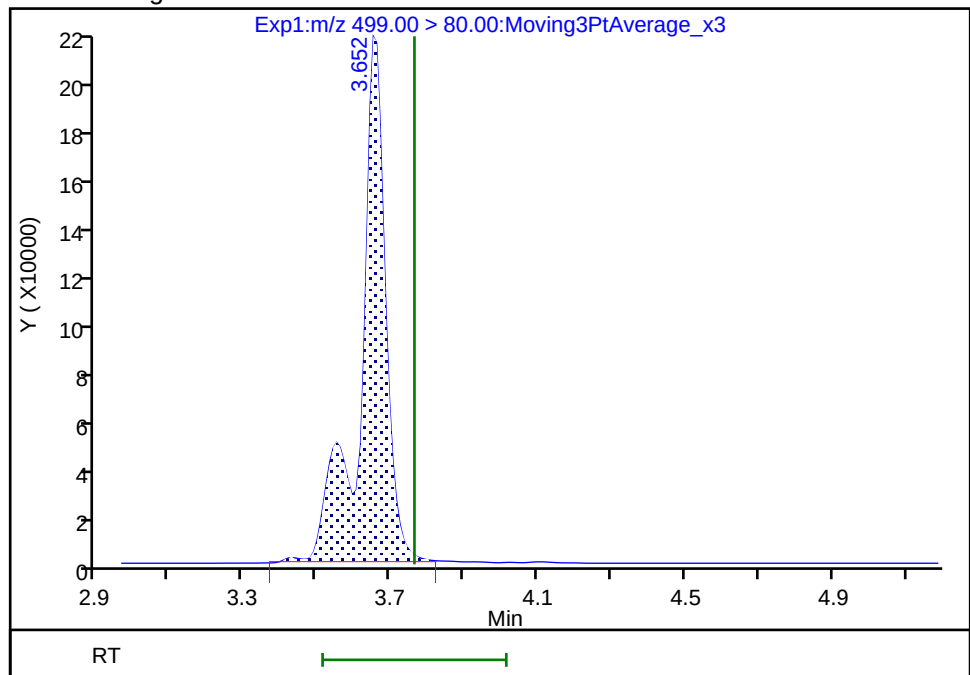
RT: 3.65
Area: 1055552
Amount: 0.816586
Amount Units: ng/ml

Processing Integration Results



RT: 3.65
Area: 1036281
Amount: 0.801678
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:55:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

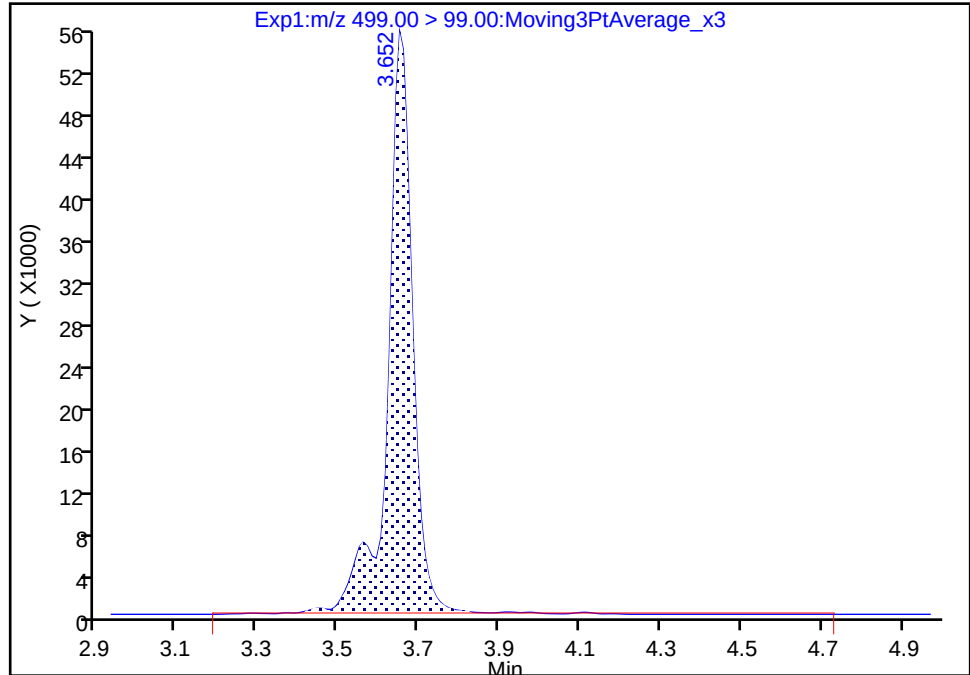
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

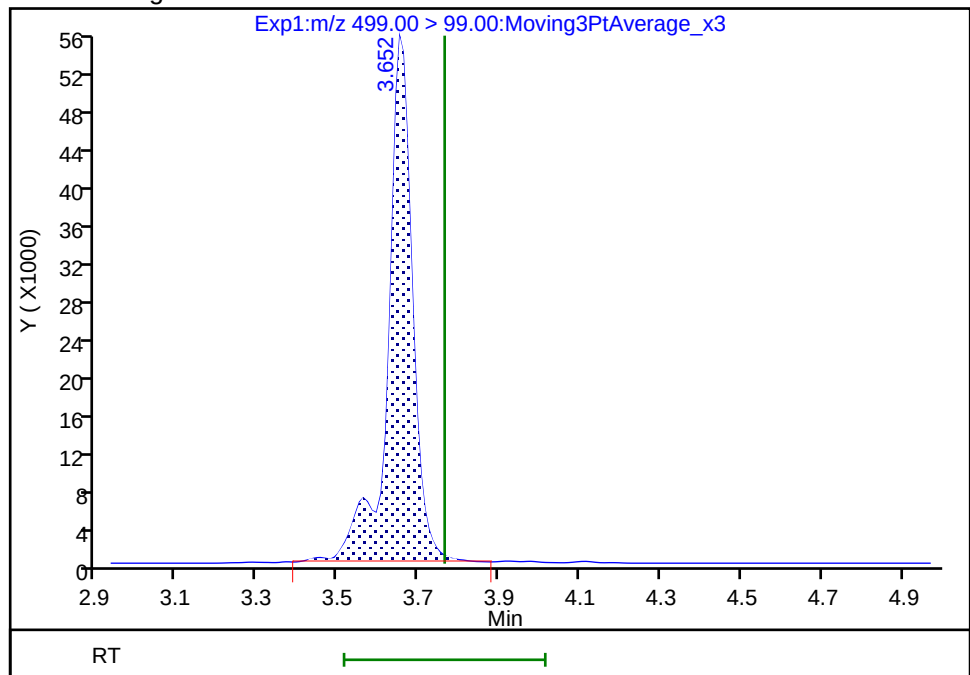
RT: 3.65
Area: 244354
Amount: 0.816586
Amount Units: ng/ml

Processing Integration Results



RT: 3.65
Area: 237360
Amount: 0.801678
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 04-Jan-2023 11:19:29

Audit Action: Manually Integrated

Audit Reason: Peak Tail

Page 731 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

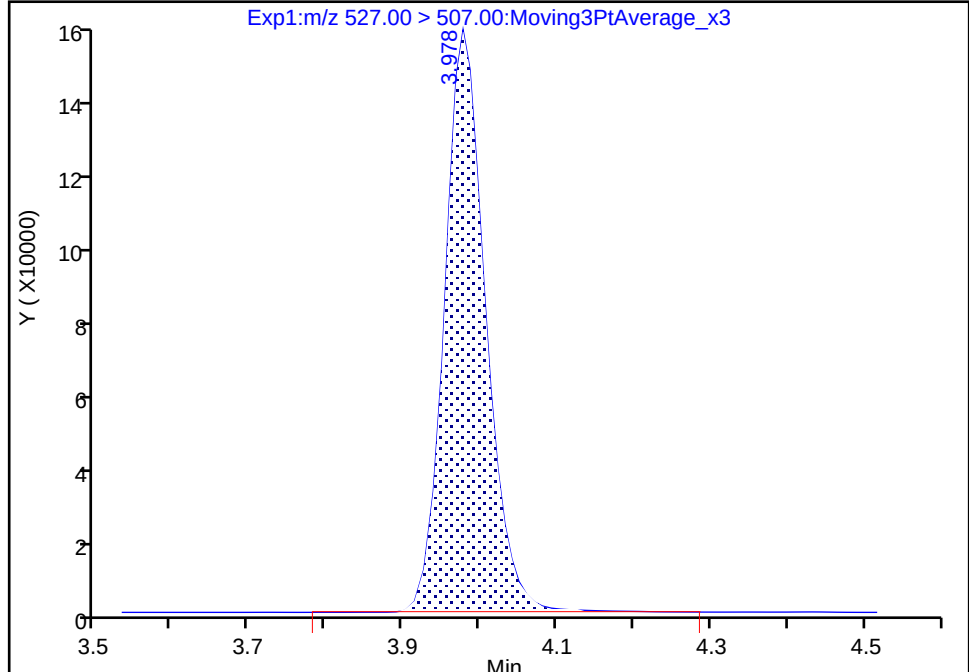
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

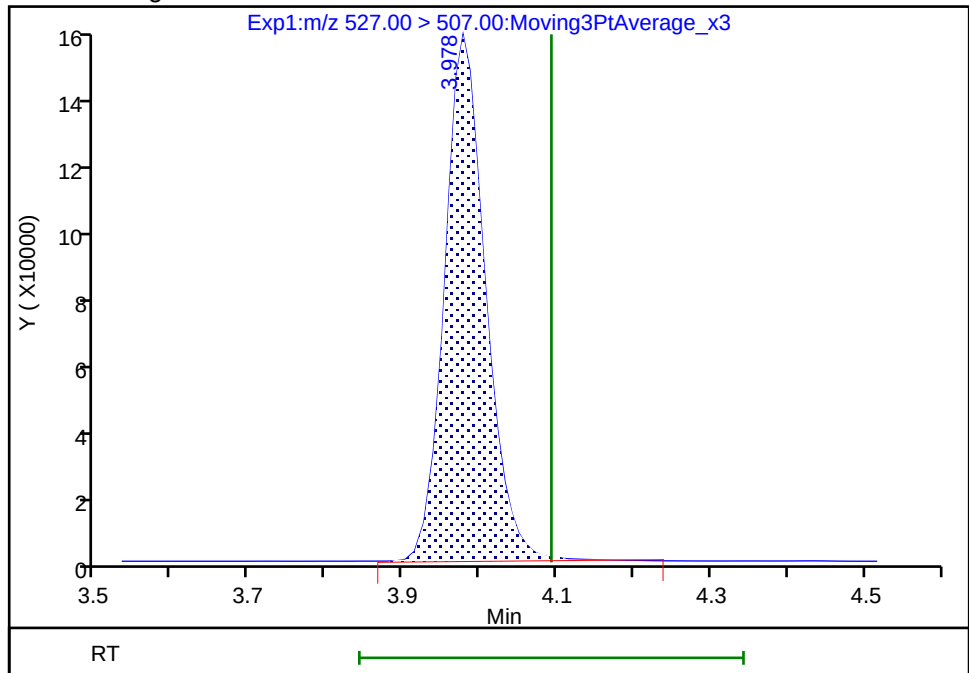
RT: 3.98
Area: 558905
Amount: 0.975760
Amount Units: ng/ml

Processing Integration Results



RT: 3.98
Area: 557947
Amount: 0.974088
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:56:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

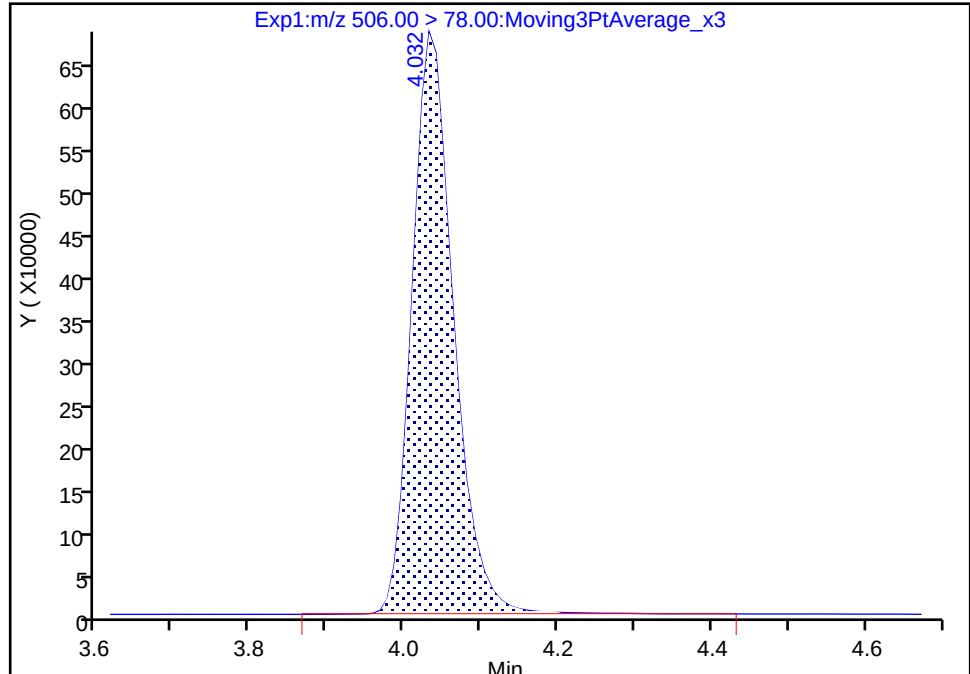
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

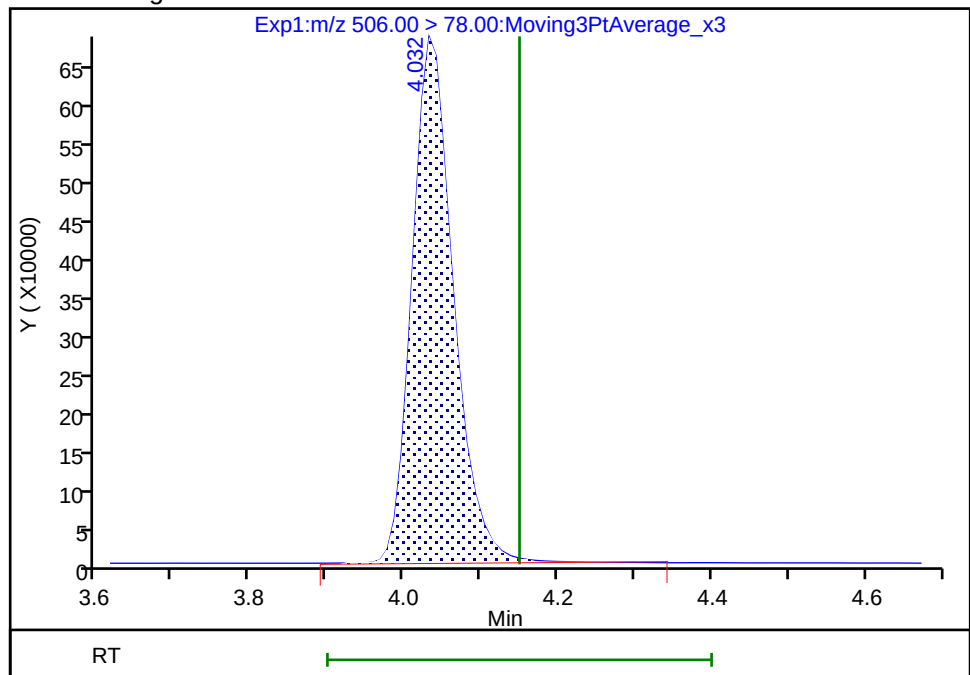
RT: 4.03
Area: 2575420
Amount: 1.307539
Amount Units: ng/ml

Processing Integration Results



RT: 4.03
Area: 2571406
Amount: 1.305501
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

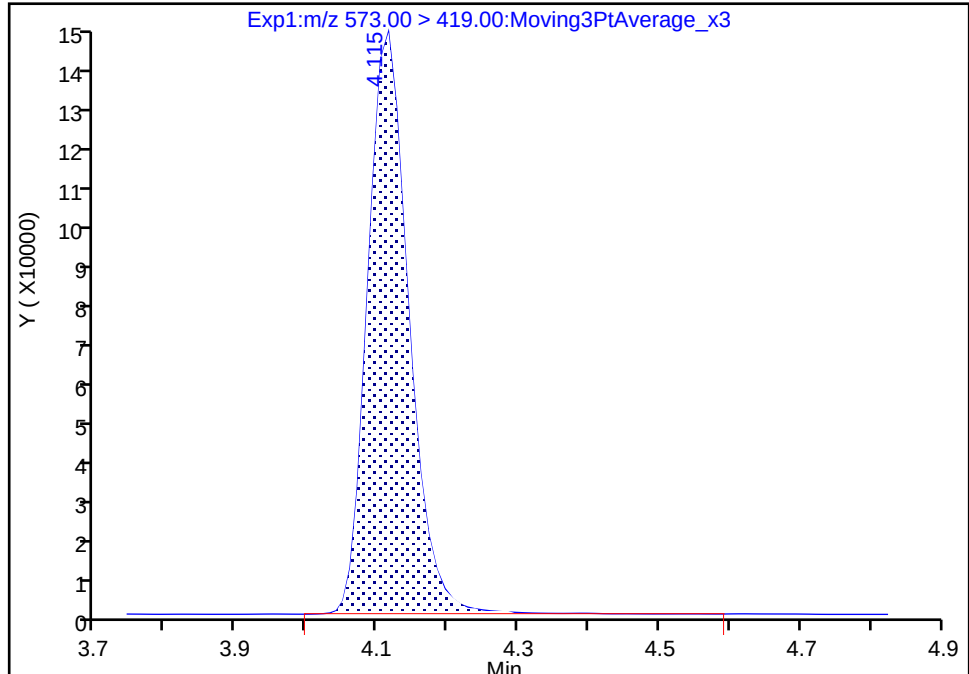
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

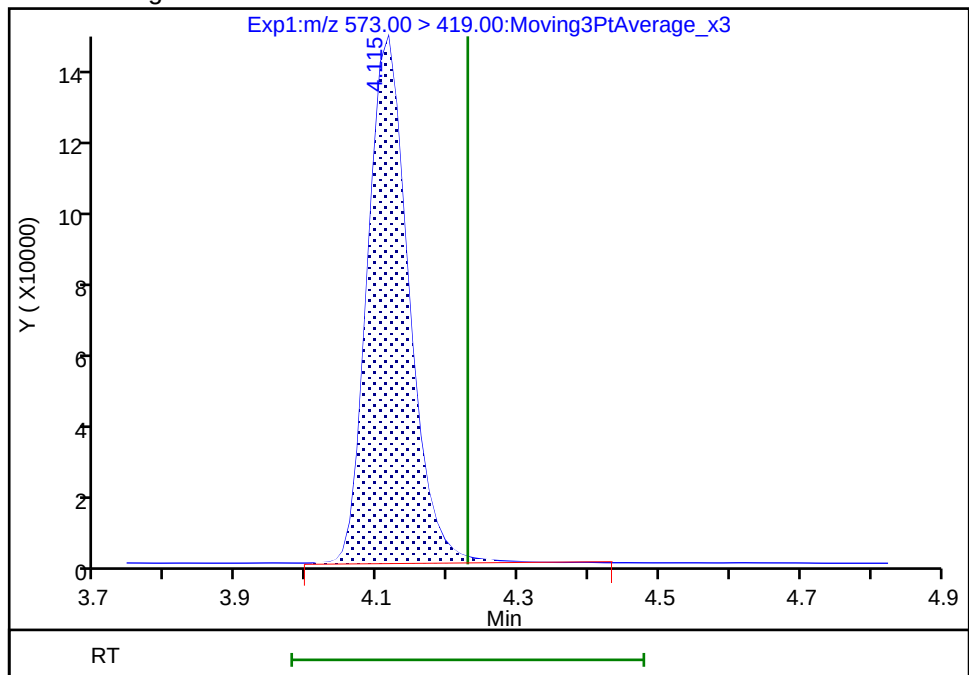
RT: 4.12
Area: 584296
Amount: 1.194453
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 583074
Amount: 1.191954
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:54:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

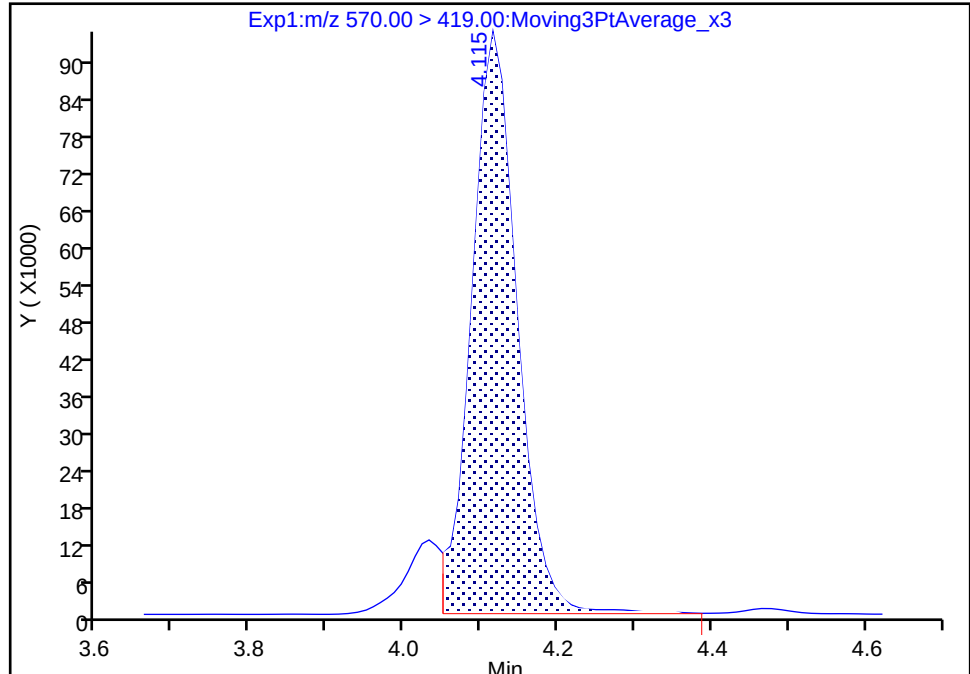
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

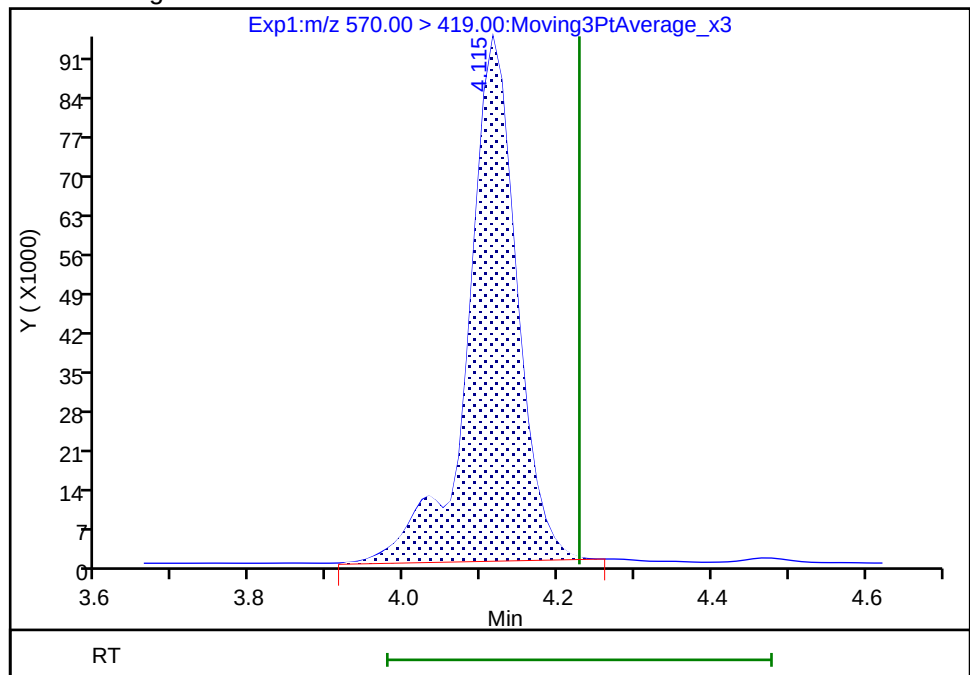
RT: 4.12
Area: 387765
Amount: 0.954720
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 415174
Amount: 1.023026
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:56:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

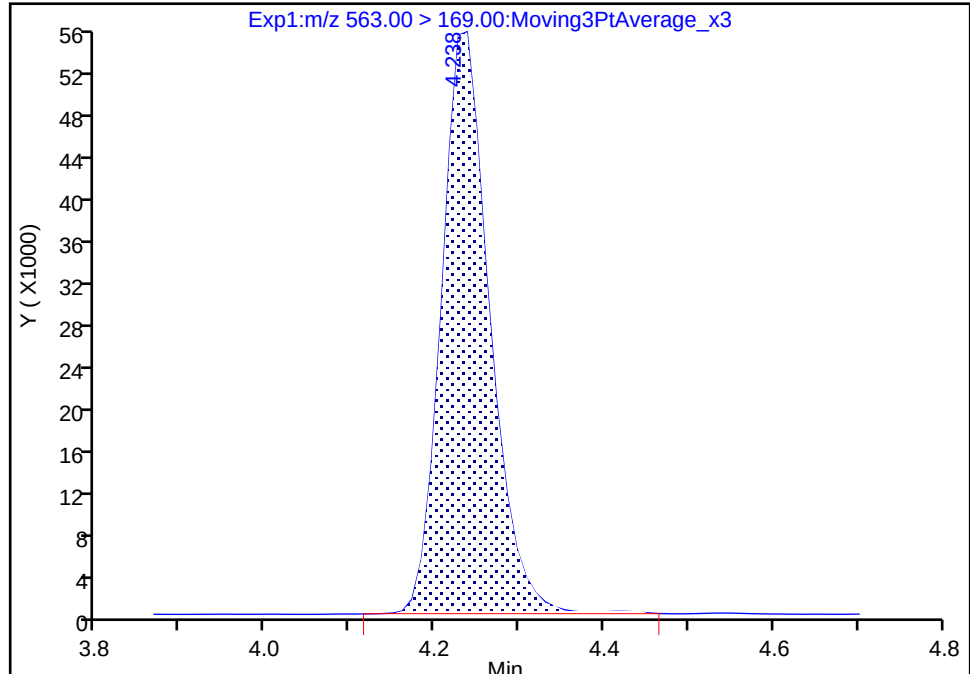
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

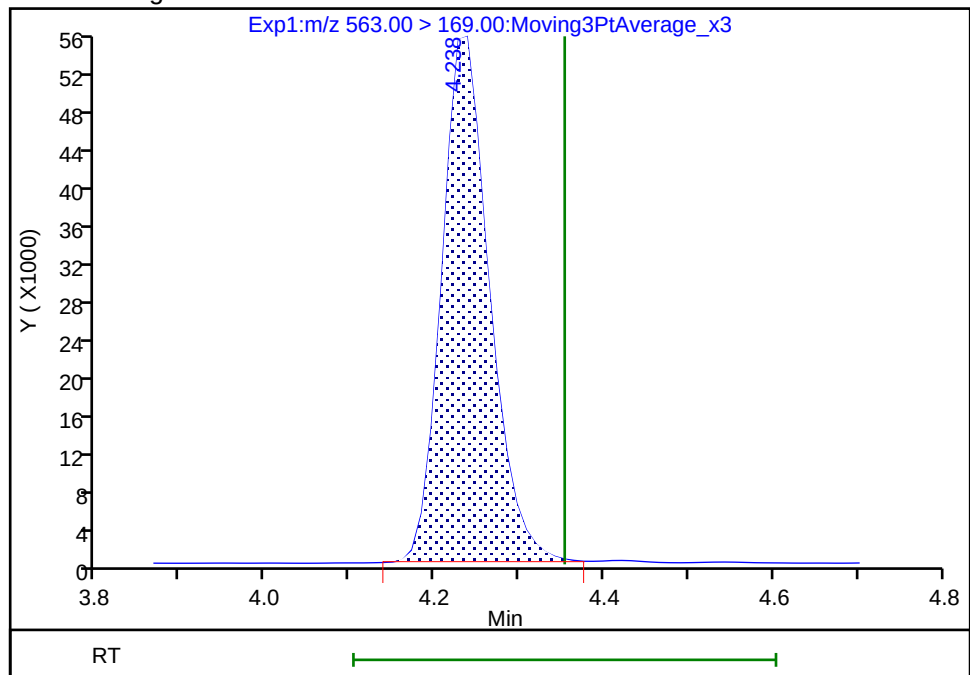
RT: 4.24
Area: 221264
Amount: 0.887145
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 219216
Amount: 0.883402
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:56:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

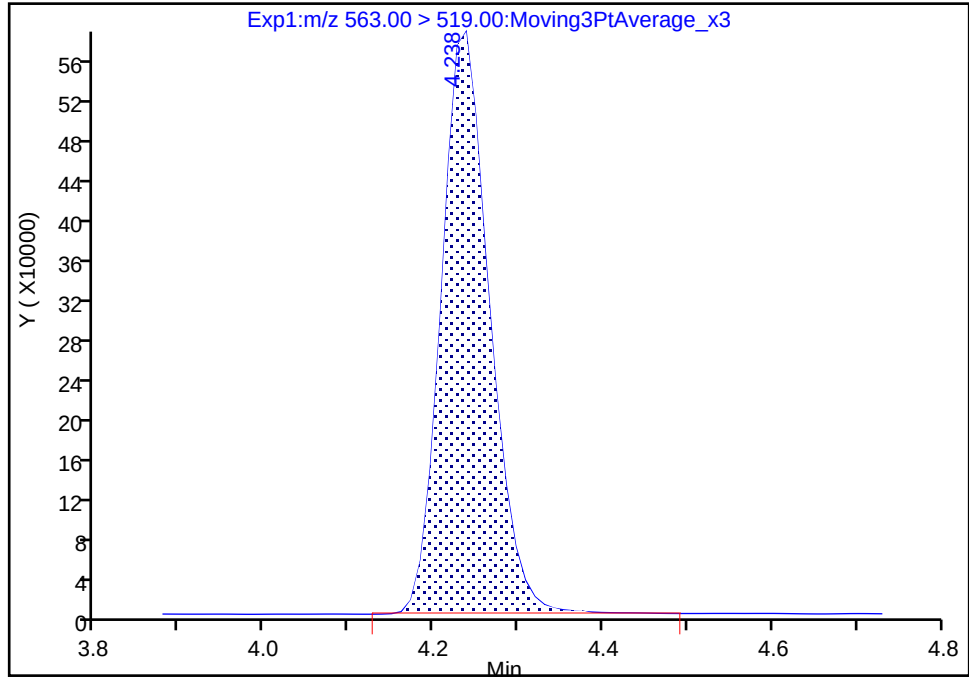
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

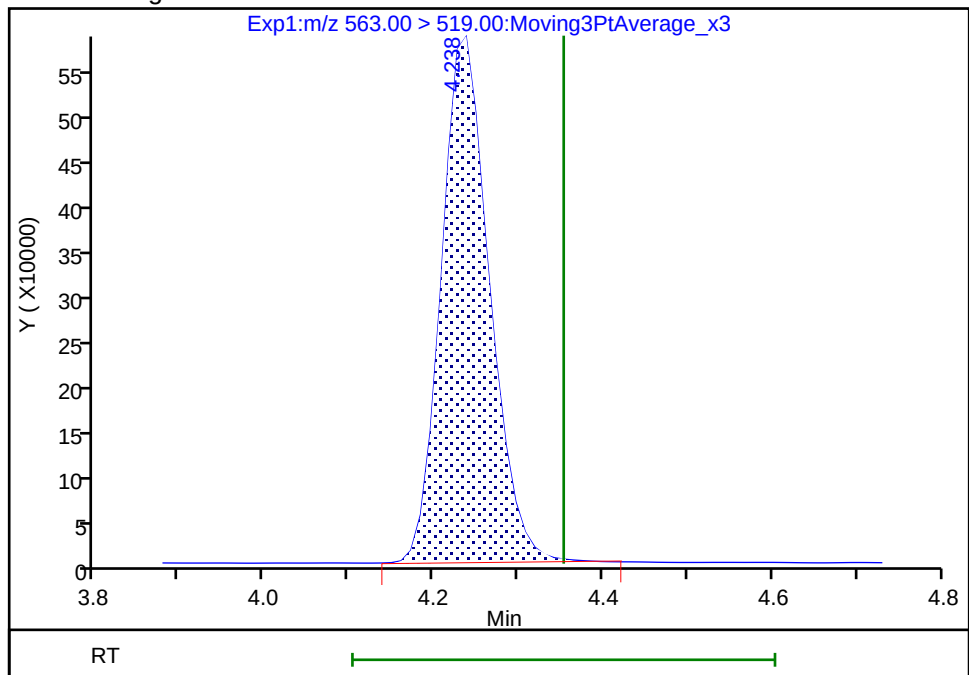
RT: 4.24
Area: 2310081
Amount: 0.887145
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 2300333
Amount: 0.883402
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

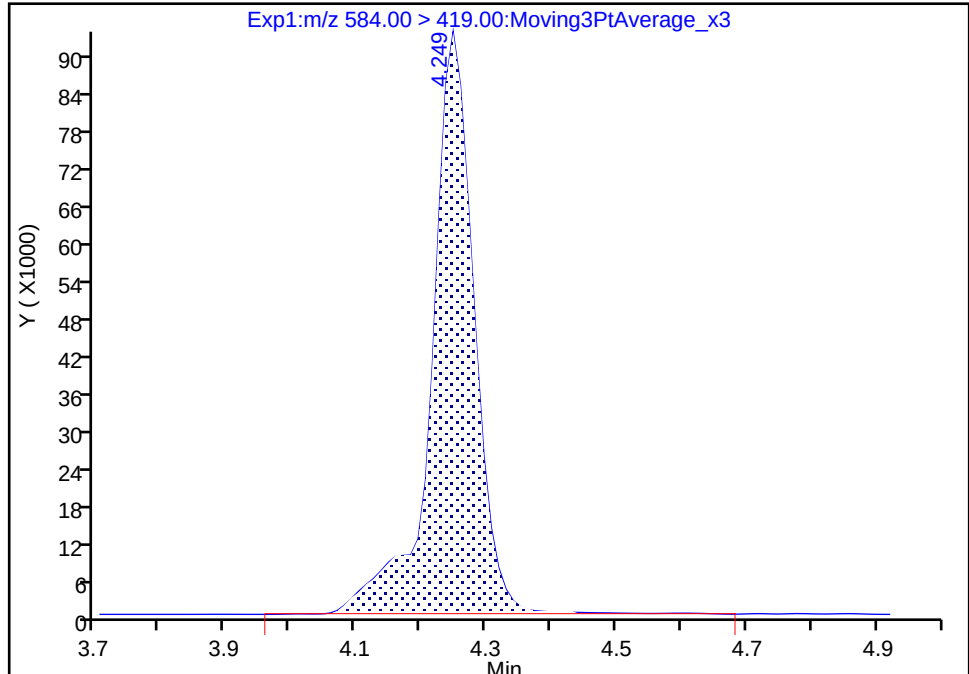
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

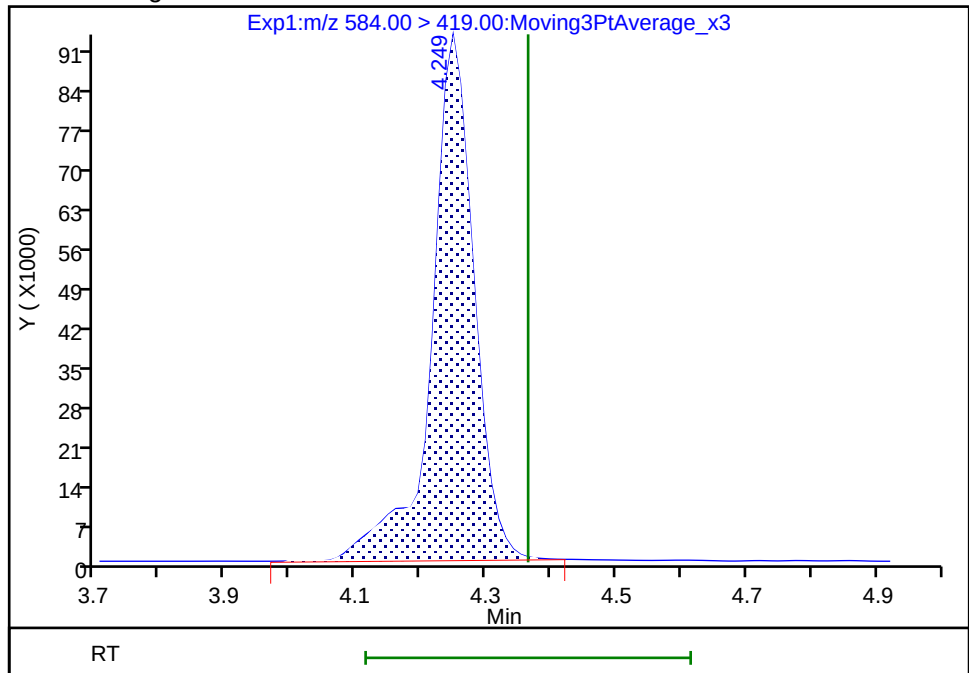
RT: 4.25
Area: 430221
Amount: 0.920340
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 425729
Amount: 0.910731
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

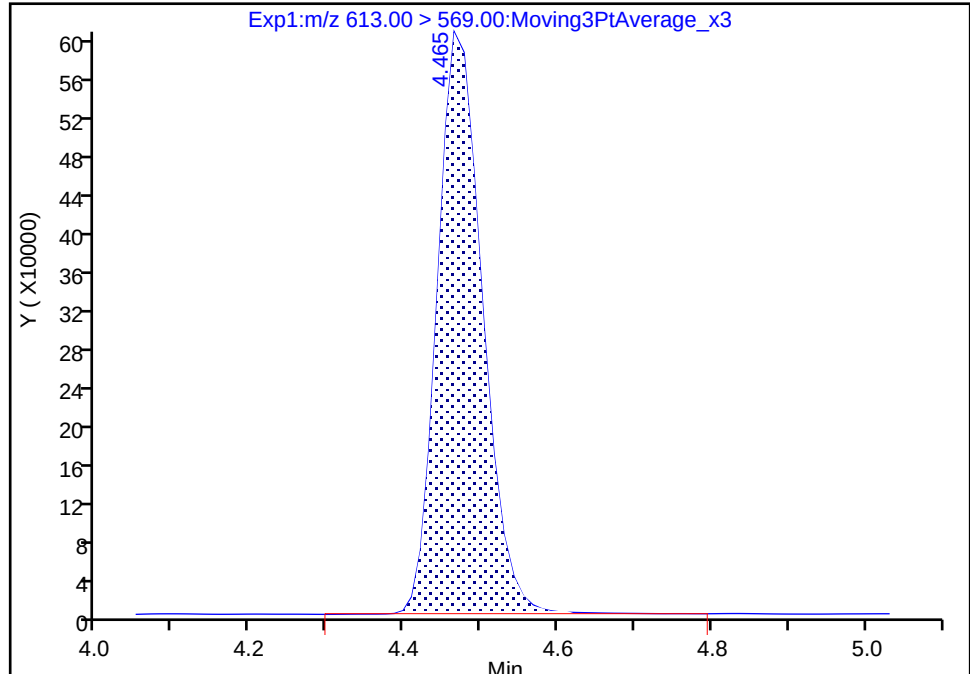
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

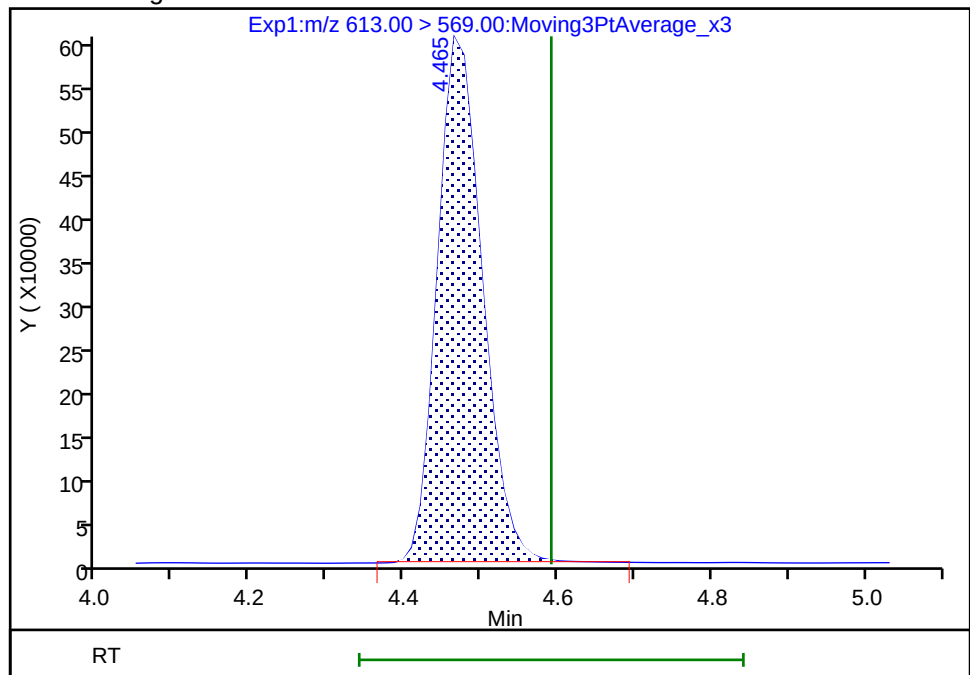
RT: 4.46
Area: 2447493
Amount: 0.955737
Amount Units: ng/ml

Processing Integration Results



RT: 4.46
Area: 2438460
Amount: 0.952210
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d

Injection Date: 30-Dec-2022 22:25:36

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

1

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

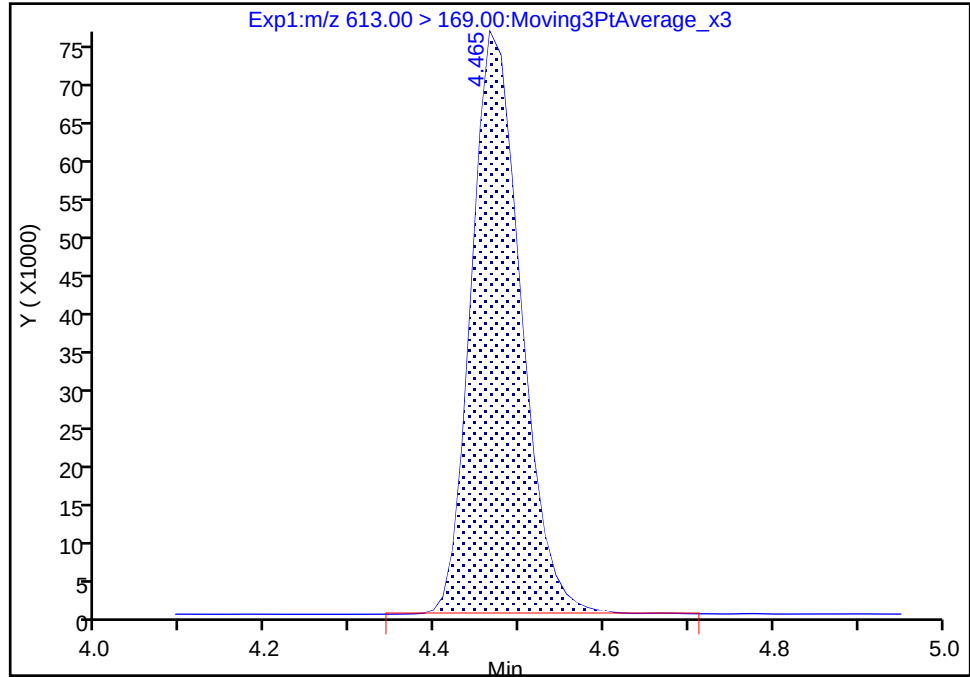
EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

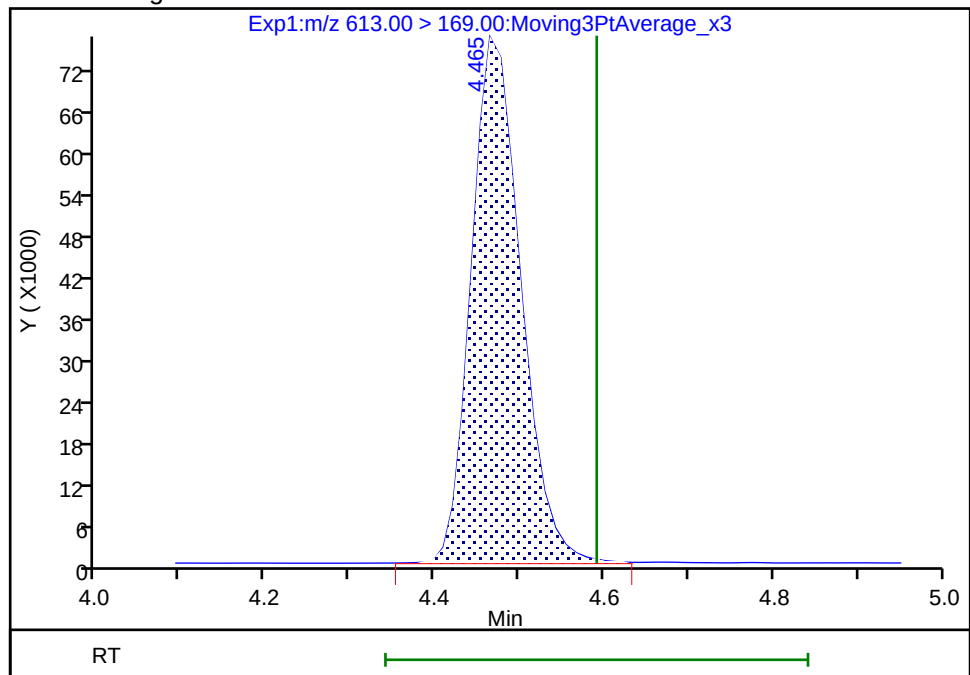
RT: 4.46
Area: 310973
Amount: 0.955737
Amount Units: ng/ml

Processing Integration Results



RT: 4.46
Area: 310181
Amount: 0.952210
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

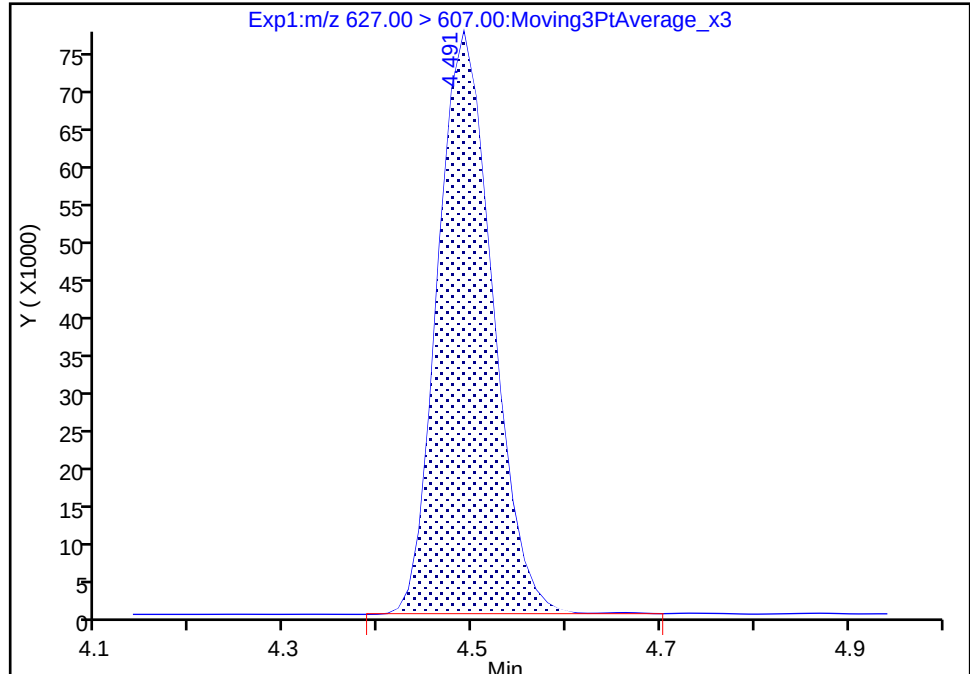
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

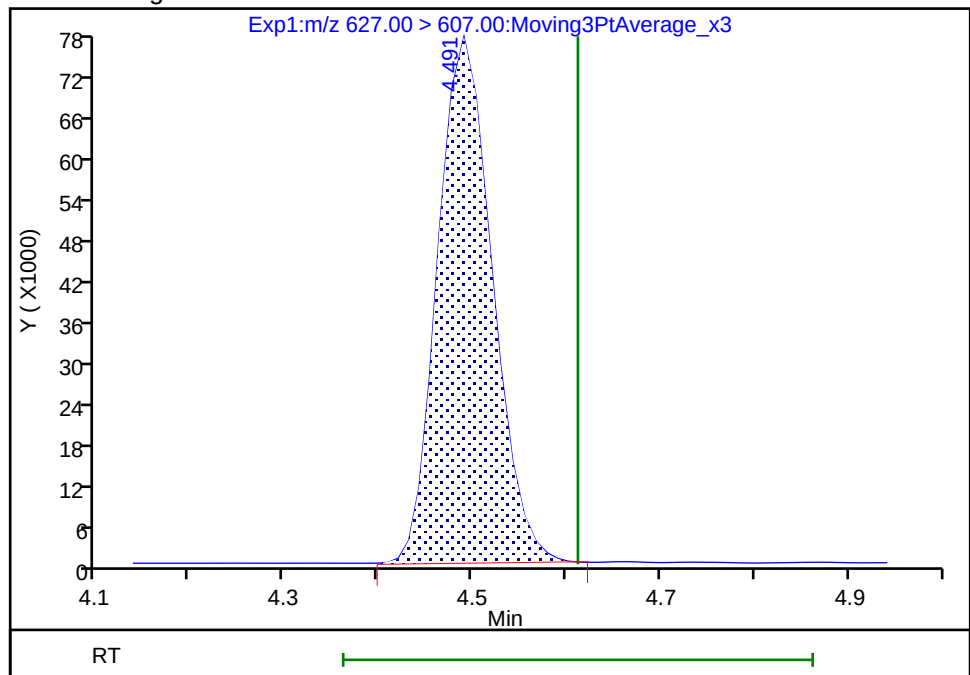
RT: 4.49
Area: 314609
Amount: 0.914039
Amount Units: ng/ml

Processing Integration Results



RT: 4.49
Area: 313653
Amount: 0.911262
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

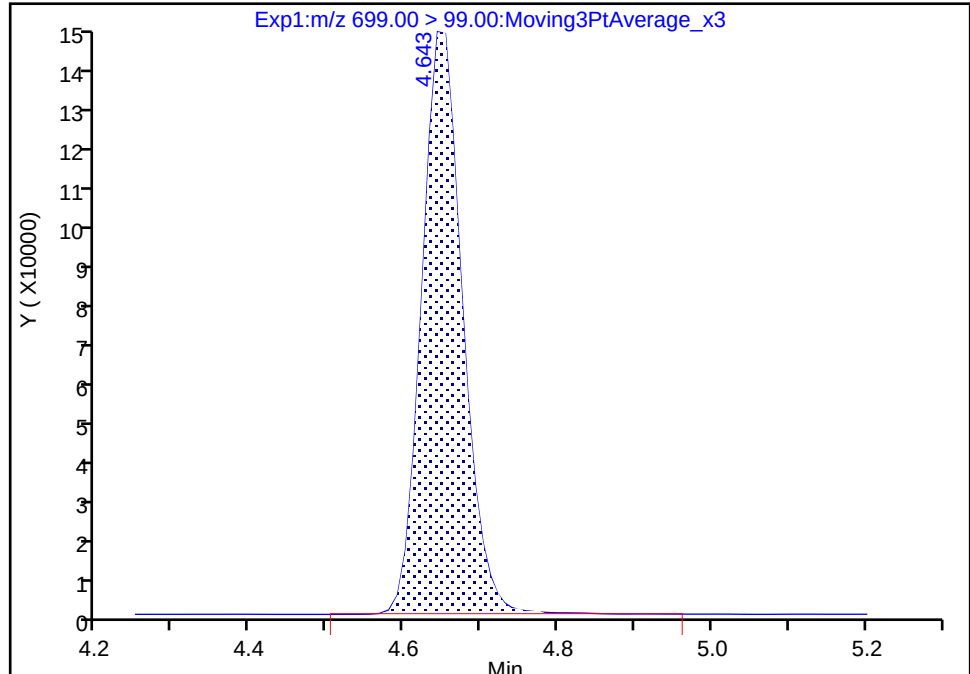
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

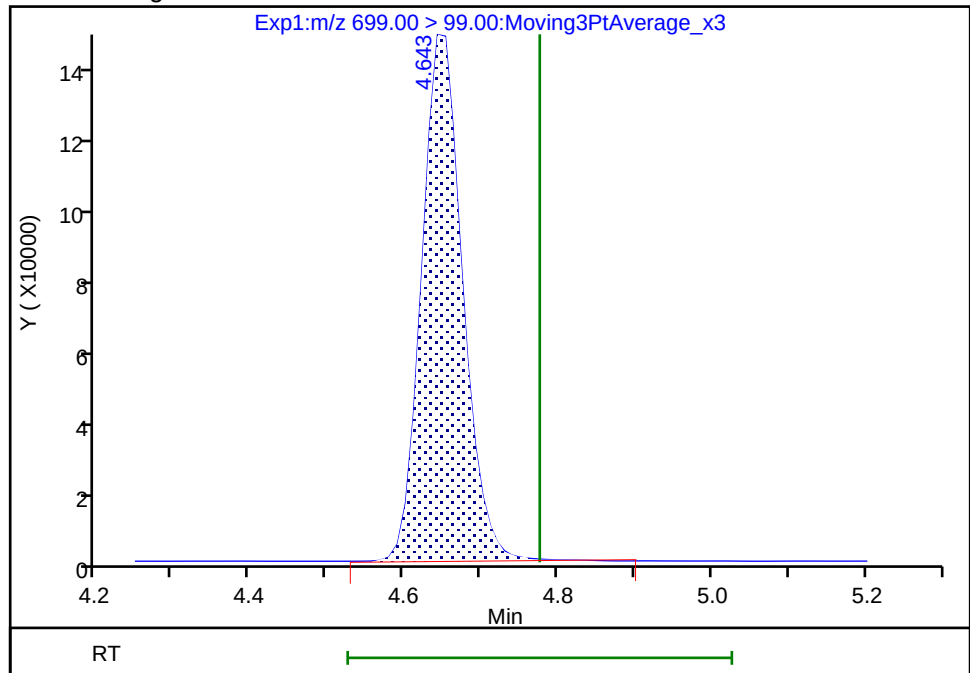
RT: 4.64
Area: 554564
Amount: 0.870670
Amount Units: ng/ml

Processing Integration Results



RT: 4.64
Area: 553972
Amount: 0.870670
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

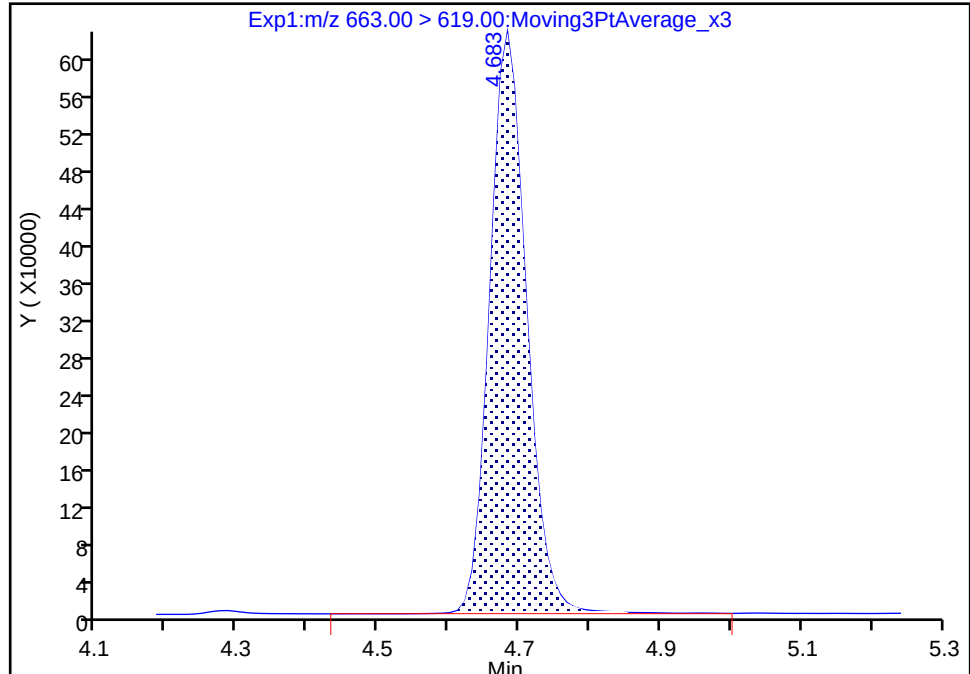
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

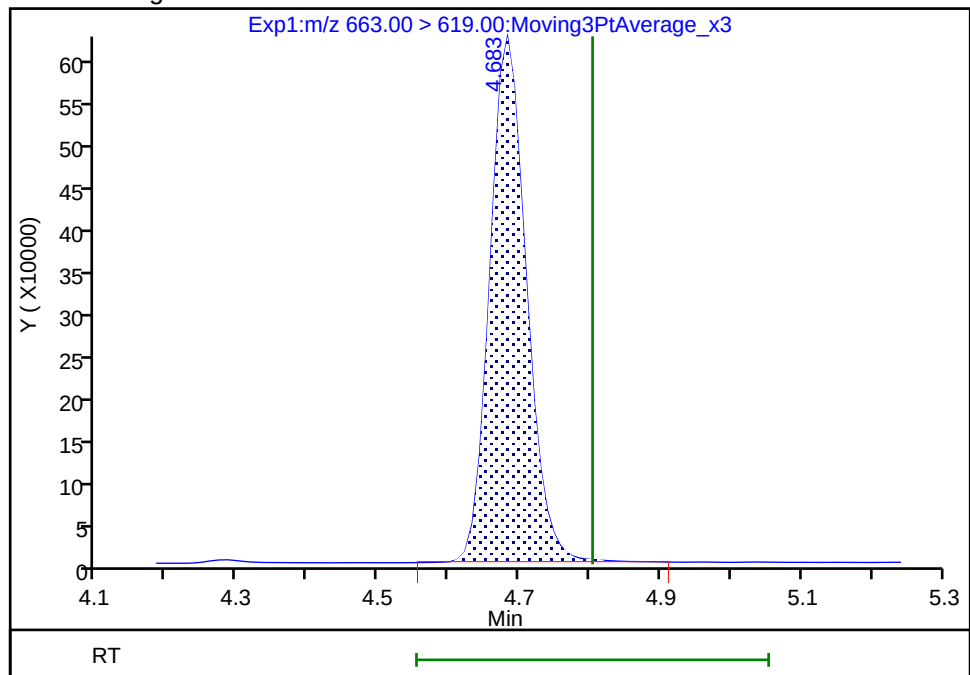
RT: 4.68
Area: 2286248
Amount: 0.933508
Amount Units: ng/ml

Processing Integration Results



RT: 4.68
Area: 2267646
Amount: 0.925913
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:57:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

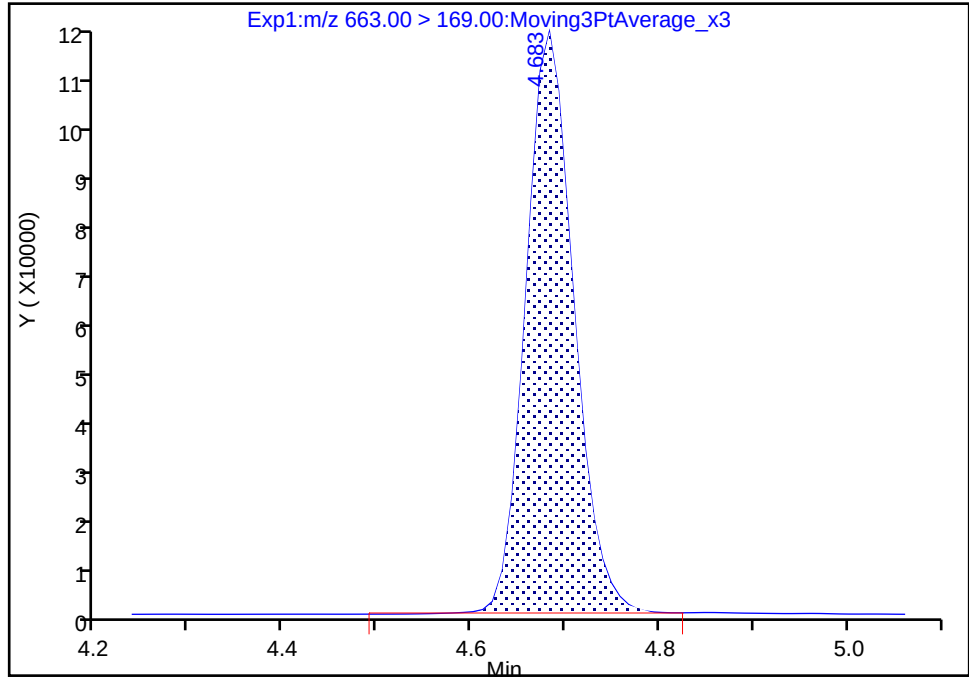
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

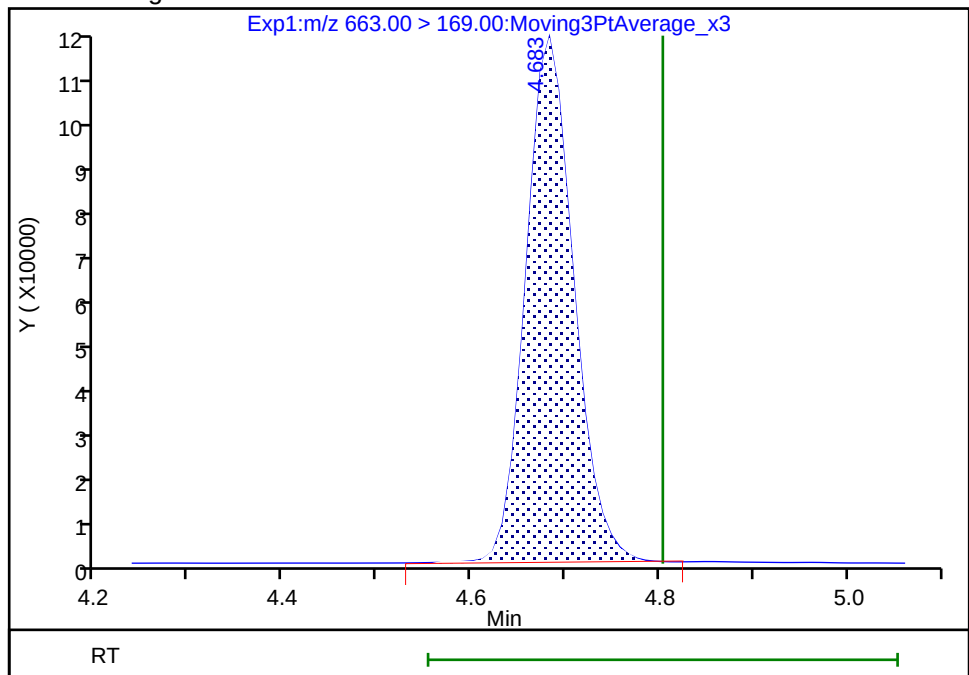
RT: 4.68
Area: 403873
Amount: 0.933508
Amount Units: ng/ml

Processing Integration Results



RT: 4.68
Area: 403203
Amount: 0.925913
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:58:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

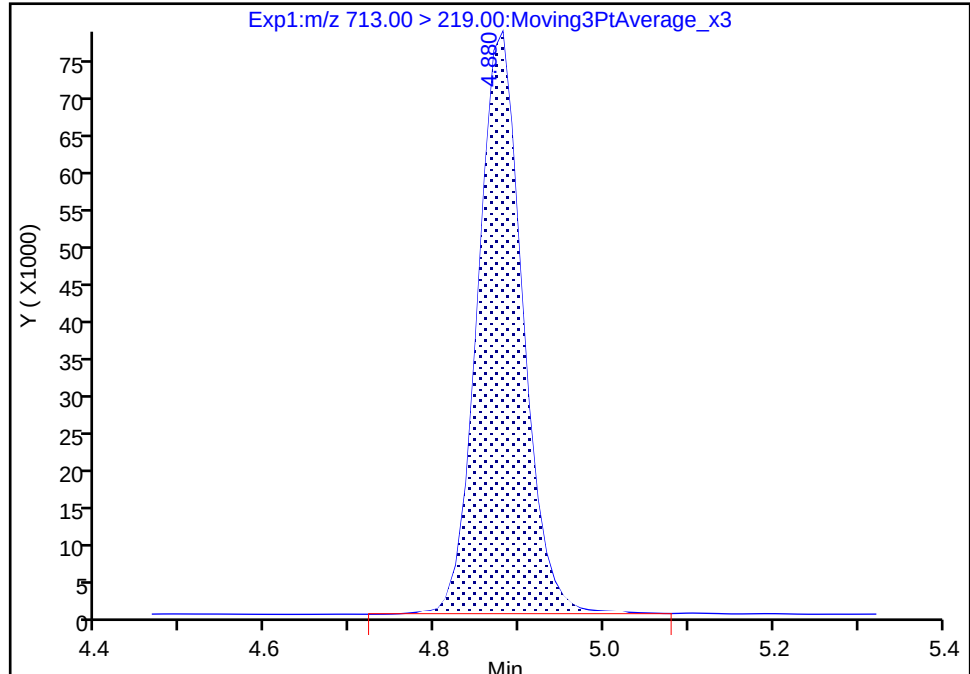
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

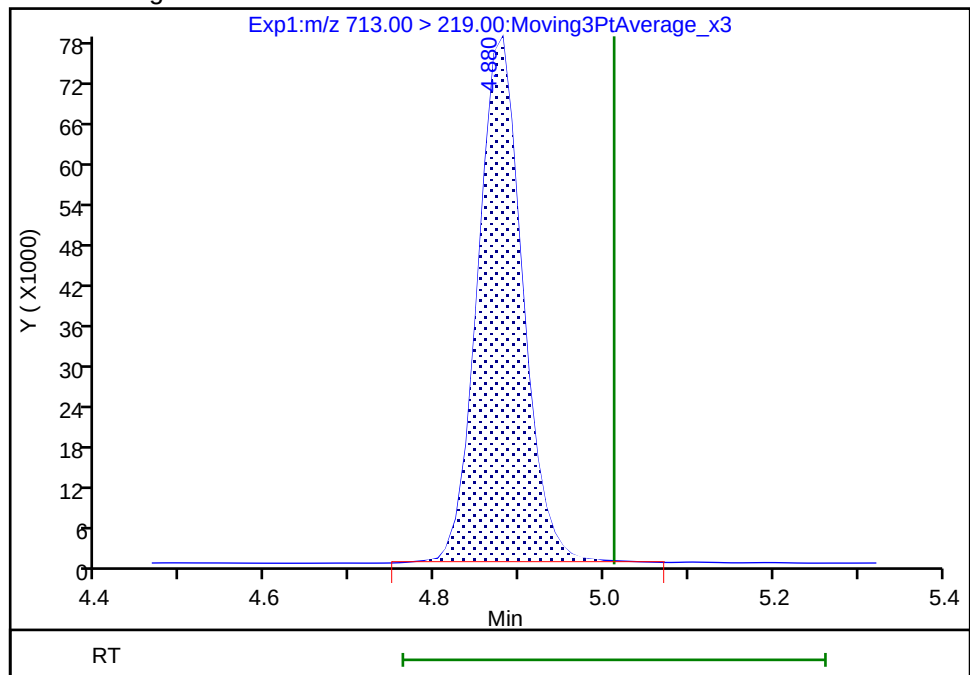
RT: 4.88
Area: 290865
Amount: 0.900123
Amount Units: ng/ml

Processing Integration Results



RT: 4.88
Area: 289503
Amount: 0.900123
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:58:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

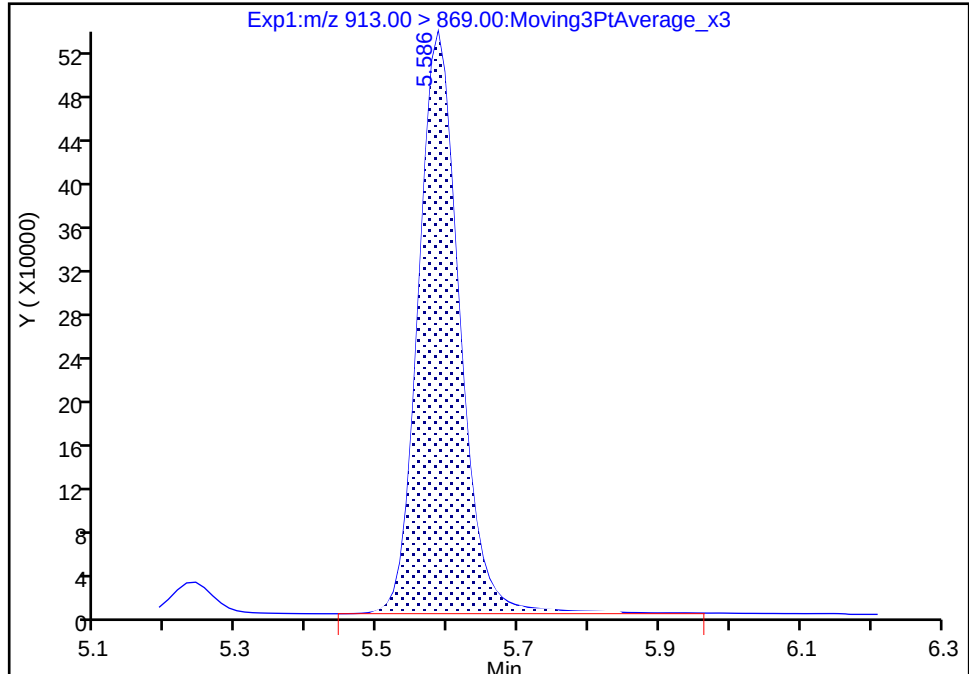
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

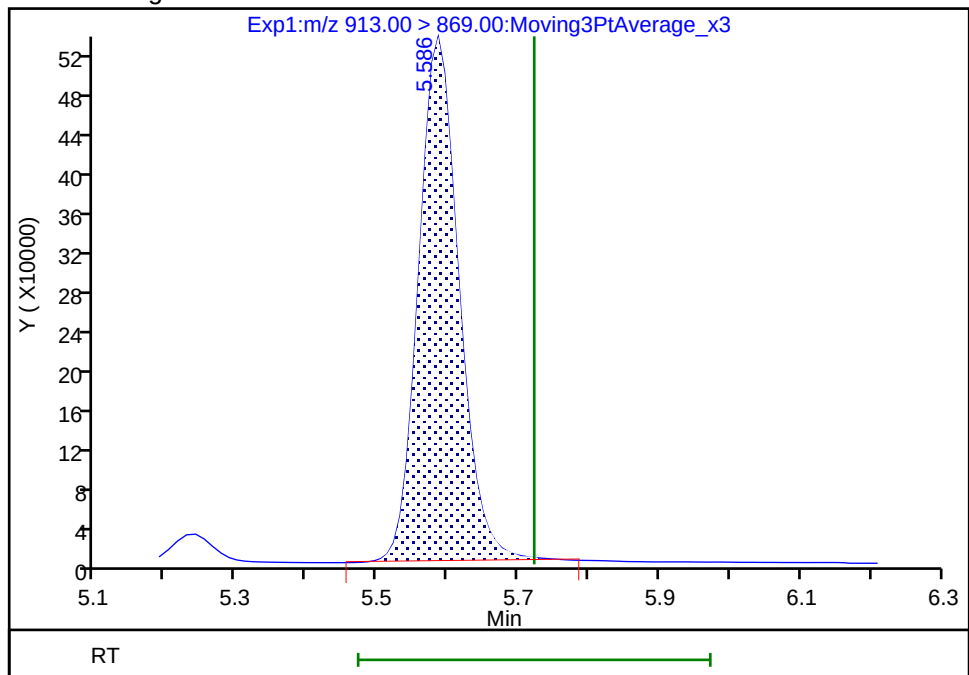
RT: 5.59
Area: 2185242
Amount: 0.969054
Amount Units: ng/ml

Processing Integration Results



RT: 5.59
Area: 2145308
Amount: 0.951345
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:58:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

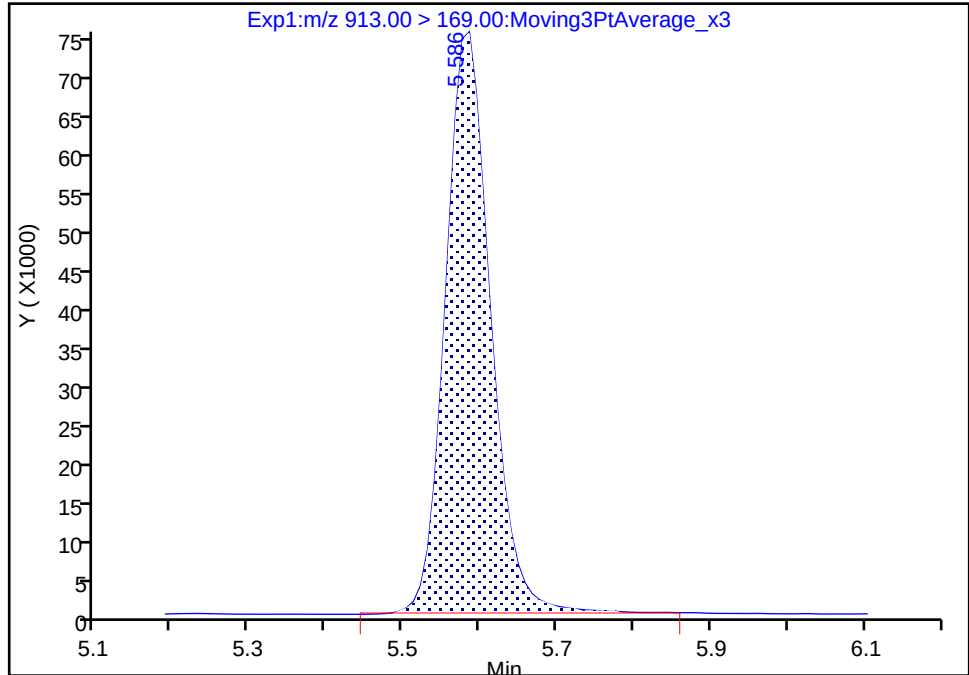
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C01.d
Injection Date: 30-Dec-2022 22:25:36 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

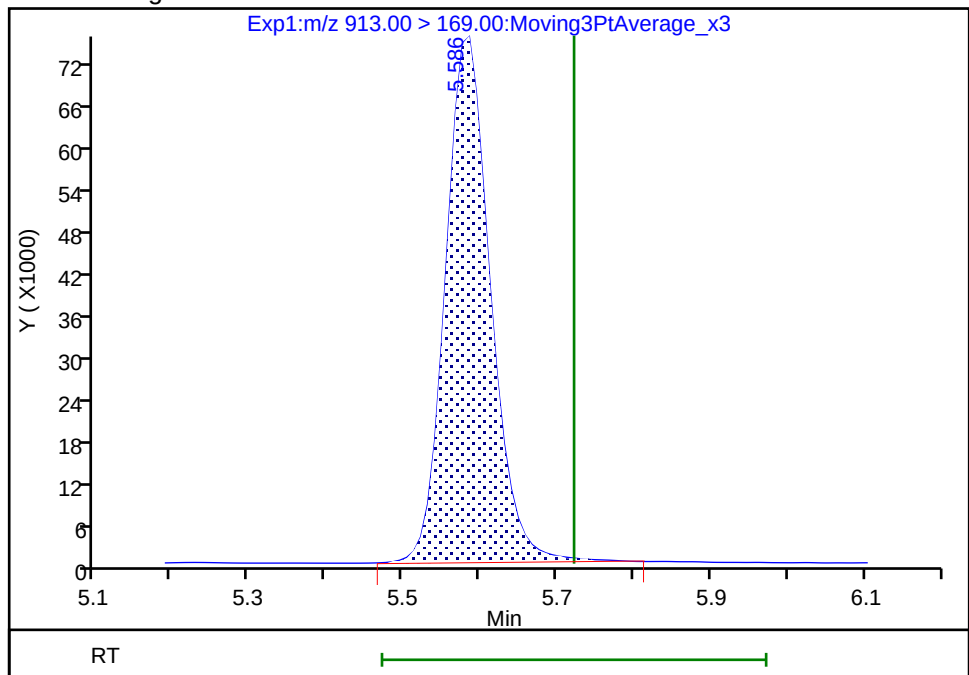
RT: 5.59
Area: 309455
Amount: 0.969054
Amount Units: ng/ml

Processing Integration Results



RT: 5.59
Area: 308412
Amount: 0.951345
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 11:58:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 747 of 1142

1/9/2023 1:31
PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187179/15 Calibration Date: 12/31/2022 00:20

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230C15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.9099		2.21	2.50	-11.8	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.998		2.29	2.50	-8.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.001		1.93	2.21	-12.5	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.923		2.22	2.34	-5.1	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9919		2.28	2.50	-9.0	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.218		2.14	2.35	-8.8	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9343		2.21	2.50	-11.5	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.067		2.15	2.28	-5.4	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9419		2.16	2.50	-13.5	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.317		2.27	2.36	-3.5	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.337		2.28	2.38	-4.2	
6:2 FTS	L1ID		2.098		2.34	2.37	-1.2	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	1.001		2.34	2.50	-6.3	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.074		2.05	2.32	-11.7	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9423		2.27	2.50	-9.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.833		2.37	2.33	1.5	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8464		2.21	2.40	-7.8	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9756		2.25	2.50	-10.0	
8:2 FTS	AveID	1.617	1.713		2.54	2.40	5.9	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9745		2.33	2.50	-6.7	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8509		2.46	2.50	-1.6	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6795		2.26	2.41	-6.2	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.8570		2.13	2.50	-15.0	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8184		2.29	2.50	-8.6	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.177		2.29	2.36	-2.9	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9886		2.33	2.50	-6.7	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.995		2.47	2.41	2.4	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.2866		2.26	2.42	-6.5	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187179/15 Calibration Date: 12/31/2022 00:20
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221230C15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	0.8977		2.22	2.50	-11.4	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1194		2.18	2.50	-12.7	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8662		2.34	2.50	-6.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8546		2.59	2.50	3.8	
13C4 PFBA	Ave	1.122	1.057		1.18	1.25	-5.7	
13C5 PFPeA	Ave	0.8543	0.8090		1.18	1.25	-5.3	
13C3 PFBS	Ave	0.9281	0.9247		1.16	1.16	-0.4	
M2-4:2 FTS	Ave	0.0820	0.0835		1.19	1.17	1.8	
13C2 PFHxA	Ave	0.8951	0.8956		1.25	1.25	0.0	
13C3 HFPO-DA	Ave	0.1580	0.1685		1.33	1.25	6.6	
18O2 PFHxS	Ave	0.6761	0.6756		1.18	1.18	-0.0	50.0
13C4 PFHpA	Ave	0.9206	0.9864		1.34	1.25	7.1	50.0
M2-6:2 FTS	Ave	0.1134	0.1300		1.36	1.19	14.6	
13C4 PFOA	Ave	1.035	1.043		1.26	1.25	0.8	50.0
13C4 PFOS	Ave	0.4588	0.4392		1.14	1.20	-4.3	50.0
13C5 PFNA	Ave	1.006	1.063		1.32	1.25	5.7	50.0
13C2 PFDA	Ave	1.025	1.054		1.29	1.25	2.8	
M2-8:2 FTS	Ave	0.1387	0.1445		1.25	1.20	4.2	
13C8 FOSA	Ave	0.8403	0.8261		1.23	1.25	-1.7	
d3-NMeFOSAA	Ave	0.2087	0.2124		1.27	1.25	1.8	
13C2 PFUnA	Ave	0.9385	1.062		1.41	1.25	13.2	
d5-NEtFOSAA	Ave	0.2055	0.2174		1.32	1.25	5.8	
13C2 PFDoA	Ave	0.9562	1.049		1.37	1.25	9.7	
13C2 PFTeDA	Ave	0.8270	0.9903		1.50	1.25	19.7	
13C2 PFHxDA	Ave	1.022	1.177		1.44	1.25	15.1	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-Dec-2022 00:20:10 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053867-015 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:50 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 12:06:58

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.128	2.076	0.052	0.641	2984798	1.18		94.3	12318	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.128	2.076	0.052	1.000	5431522	2.21		88.2	364	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.402	2.387	0.015	0.723	2283776	1.18		94.7	2670	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.402	2.387	0.015	1.000	4558413	2.29		91.6	122	M
D 47 13C3 PFBS										
301.90 > 80.00	2.415	2.400	0.015	0.727	2427439	1.16		99.6	147430	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.415	2.400	0.015	1.000	4621229	1.93	Target=2.09	87.5	3262	
298.90 > 99.00	2.415	2.400	0.015	1.000	2265214		2.04(1.04-3.13)		1109	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.667	2.689	-0.022	1.000	1286897	2.22		94.9	4639	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.667	2.689	-0.022	0.803	220143	1.19		102	218	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.704	2.725	-0.021	0.814	2528075	1.25		100	2943	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.704	2.725	-0.021	1.000	5014996	2.28	Target=14.25	91.0	809	M
313.00 > 119.00	2.704	2.725	-0.021	1.000	356079		14.08(7.12-21.37)		523	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.704	2.737	-0.033	0.900	4357292	2.14	Target=3.04	91.2	3517	
349.00 > 99.00	2.704	2.737	-0.033	0.900	1453165		3.00(1.52-4.56)		1628	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.789	2.835	-0.046	1.000	888625	2.21		88.5	2384	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.789	2.835	-0.046	0.840	475577	1.33		107	1992	
D 11 18O2 PFHxS										
403.00 > 84.00	3.003	3.088	-0.085	0.904	1804080	1.18		99.9	3738	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.003	3.088	-0.085	1.000	3704756	2.15	Target=3.66	94.6	1669	M
399.00 > 99.00	3.003	3.088	-0.085	1.000	1061882		3.49(1.83-5.49)		760	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.014	3.099	-0.085	0.908	2784436	1.34		107	5429	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.014	3.099	-0.085	1.000	5245358	2.16	Target=3.97	86.5	793	M
363.00 > 169.00	3.014	3.099	-0.085	1.000	1368519		3.83(1.98-5.95)		2402	M
77 DONA										
377.00 > 251.00	3.036	3.132	-0.096	0.839	12417861	2.27	Target=3.16	96.5	4722	M
377.00 > 85.00	3.036	3.132	-0.096	0.839	3971642		3.13(1.58-4.73)		2255	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.320	3.439	-0.119	1.000	348545	1.36		115	769	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.320	3.439	-0.119	1.000	1459291	2.34		98.8	966	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.310	3.439	-0.129	0.914	3156902	2.28	Target=5.14	95.8	2421	M
449.00 > 99.00	3.310	3.439	-0.129	0.914	638693		4.94(2.57-7.72)		1018	M
D 14 13C4 PFOA										
417.00 > 372.00	3.330	3.448	-0.118	1.003	2944291	1.26		101	4531	
* 62 13C2 PFOA										
415.00 > 370.00	3.320	3.448	-0.128		2822844	1.25			4013	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.330	3.448	-0.118	1.000	5897019	2.34	Target=2.79	93.7	323	M
413.00 > 169.00	3.320	3.448	-0.128	0.997	1987551		2.97(1.40-4.19)		1448	M
D 18 13C4 PFOS										
503.00 > 80.00	3.620	3.764	-0.144	1.090	1185202	1.14		95.7	1714	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.620	3.764	-0.144	1.000	2470671	2.05	Target=5.11	88.3	1214	M
499.00 > 99.00	3.620	3.764	-0.144	1.000	550949		4.48(2.55-7.66)		1257	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.638	3.783	-0.145	1.000	5654102	2.27	Target=8.55	90.8	1011	
463.00 > 169.00	3.638	3.783	-0.145	1.000	664101		8.51(4.28-12.83)		2029	
D 19 13C5 PFNA										
468.00 > 423.00	3.638	3.783	-0.145	1.096	3000129	1.32		106	3375	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.777	3.928	-0.151	1.043	6547734	2.37		102	4460	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.908	4.050	-0.142	1.079	2014647	2.21	Target=2.53	92.2	3123	
549.00 > 99.00	3.908	4.050	-0.142	1.079	813870		2.48(1.27-3.80)		2391	
D 23 13C2 PFDA										
515.00 > 470.00	3.932	4.081	-0.149	1.184	2974246	1.28		103	4159	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	3.932	4.081	-0.149	1.000	5803157	2.25	Target=10.26	90.0	1420	
513.00 > 169.00	3.932	4.081	-0.149	1.000	594160		9.77(5.13-15.38)		1621	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.944	4.093	-0.149	1.188	390788	1.25		104	905	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	3.944	4.093	-0.149	1.000	1338510	2.54		106	2574	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	3.999	4.150	-0.151	1.000	4544944	2.33		93.3	2228	M
D 21 13C8 FOSA										
506.00 > 78.00	3.999	4.150	-0.151	1.205	2332036	1.23		98.3	2052	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.074	4.228	-0.154	1.227	599707	1.27		102	1569	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.074	4.228	-0.154	1.000	1020536	2.46		98.4	710	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.165	4.331	-0.166	1.150	1624176	2.26	Target=2.51	93.8	2290	M
599.00 > 99.00	4.165	4.331	-0.166	1.150	622620		2.61(1.25-3.76)		1785	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.199	4.353	-0.154	1.265	2997928	1.41		113	2255	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.199	4.353	-0.154	1.000	5138449	2.13	Target=9.88	85.0	1447	M
563.00 > 169.00	4.199	4.353	-0.154	1.000	536018		9.59(4.94-14.82)		2147	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.210	4.365	-0.155	1.000	1004427	2.29		91.4	1422	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.210	4.365	-0.155	1.268	613643	1.32		106	985	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.301	4.454	-0.153	1.188	9756902	2.29		97.1	3722	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.436	4.591	-0.155	1.000	5852619	2.33	Target=7.77	93.3	1306	M
613.00 > 169.00	4.436	4.591	-0.155	1.000	756628		7.74(3.89-11.66)		2756	
D 36 13C2 PFDaA										
615.00 > 570.00	4.436	4.591	-0.155	1.336	2960121	1.37		110	2728	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.458	4.612	-0.154	1.130	782826	2.47		102	1811	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.614	4.776	-0.162	1.275	687882	2.26	Target=0.50	93.5	2910	M
699.00 > 99.00	4.614	4.776	-0.162	1.275	1347641		0.51(0.25-0.76)		2338	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.645	4.804	-0.159	1.047	5314724	2.22	Target=5.21	88.6	1100	M
663.00 > 169.00	4.645	4.804	-0.159	1.047	915020		5.81(2.60-7.81)		1819	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.839	5.012	-0.173	0.998	667855	2.18	Target=0.89	87.3	2196	
713.00 > 219.00	4.839	5.012	-0.173	0.998	714186		0.94(0.44-1.33)		2355	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.850	5.012	-0.162	1.461	2795553	1.50		120	3333	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.203	5.367	-0.164	1.000	5755412	2.34	Target=5.65	93.5	434	M
813.00 > 169.00	5.203	5.367	-0.164	1.000	946462		6.08(2.82-8.47)		2954	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.203	5.367	-0.164	1.567	3322317	1.44		115	3535	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.559	5.722	-0.163	1.068	5678547	2.59	Target=6.24	104	412	M
913.00 > 169.00	5.559	5.722	-0.163	1.068	836734		6.79(3.12-9.36)		2711	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00031

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d

Injection Date: 31-Dec-2022 00:20:10

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

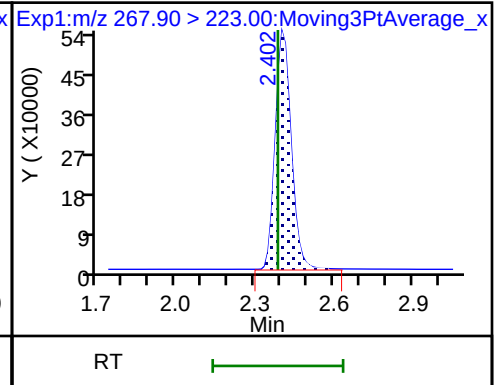
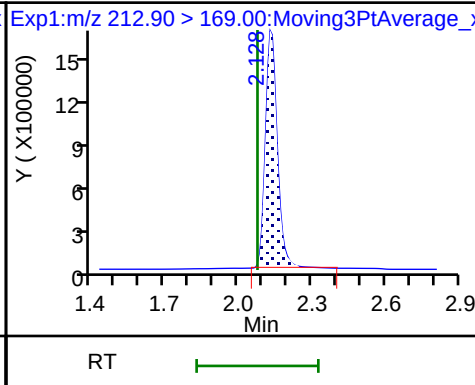
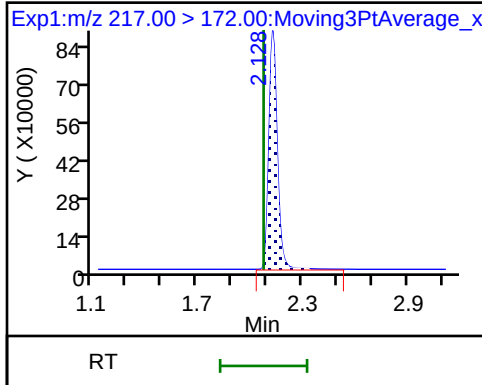
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

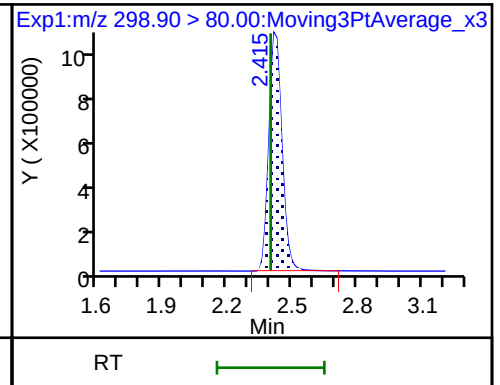
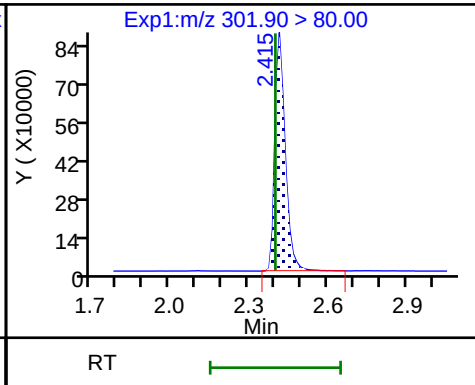
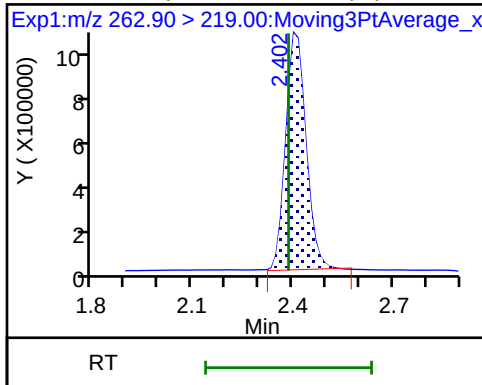
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

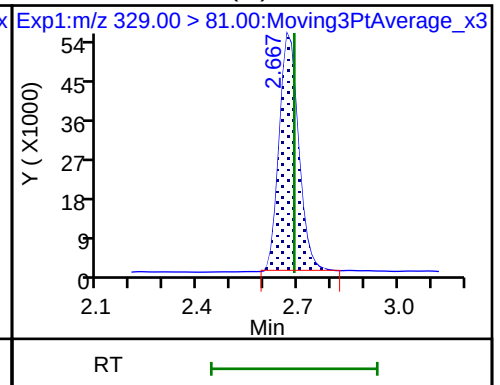
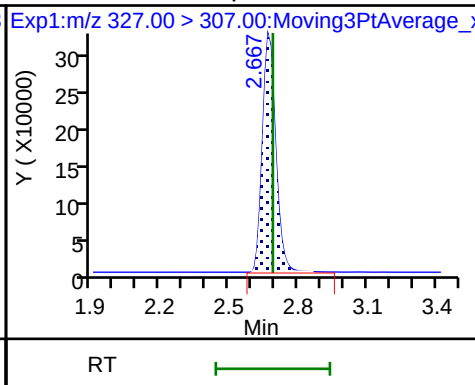
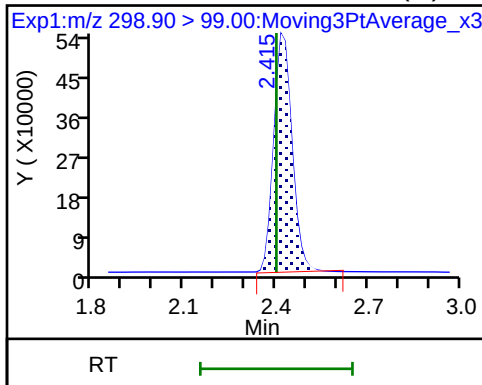
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo

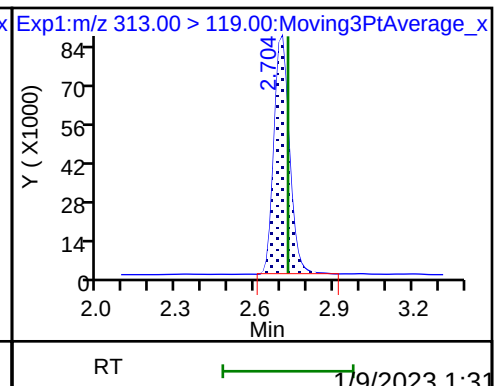
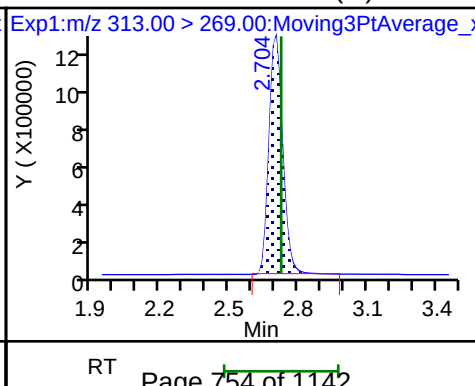
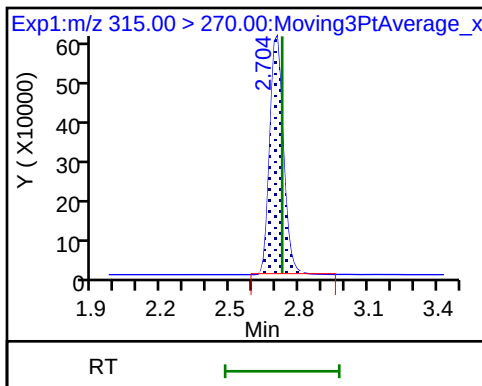
D 60 M2-4:2 FTS (M)

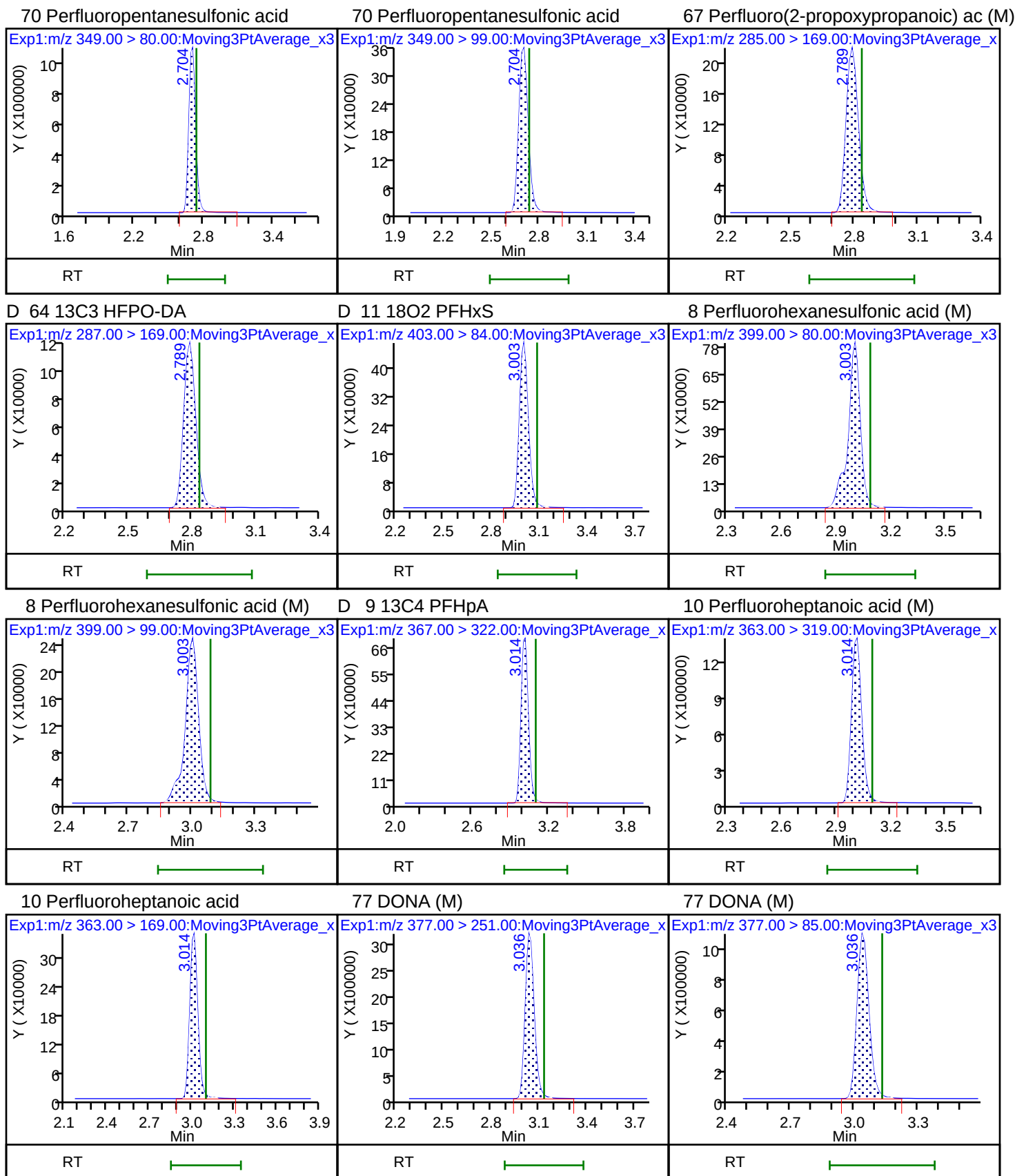


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

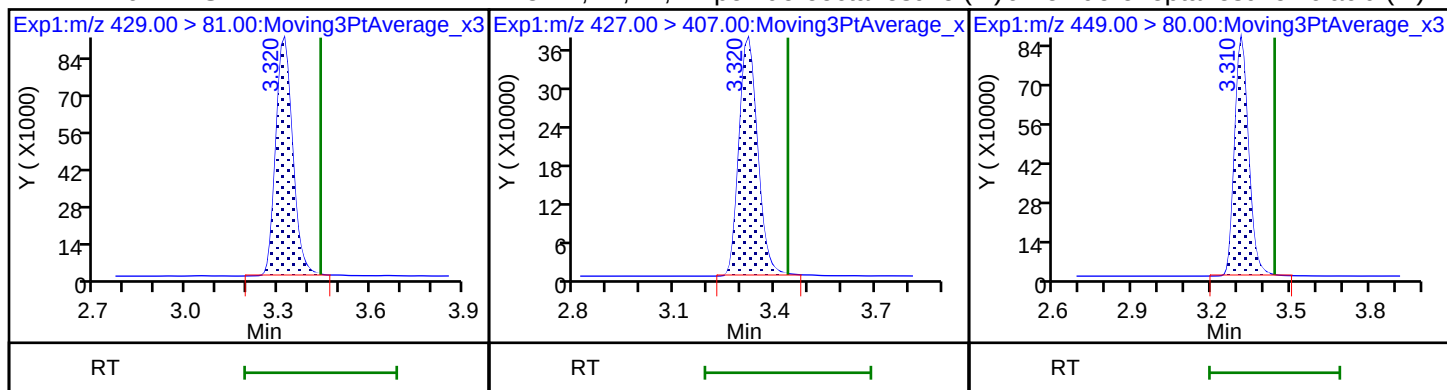
6 Perfluorohexanoic acid





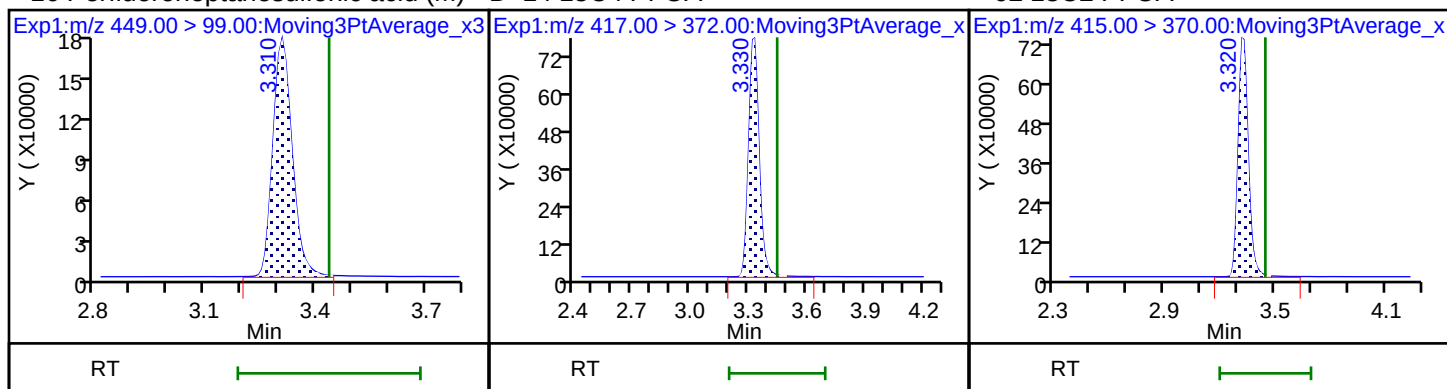
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

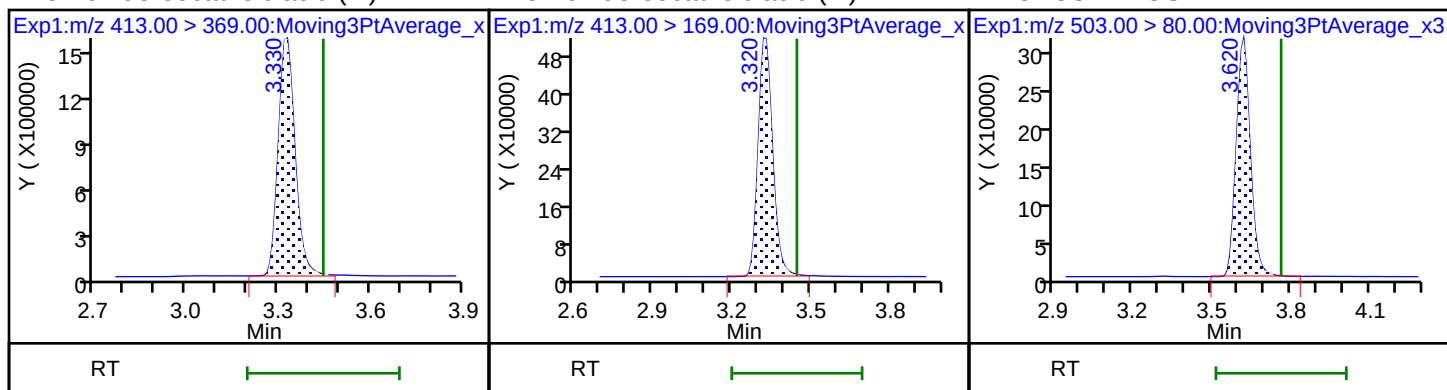
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

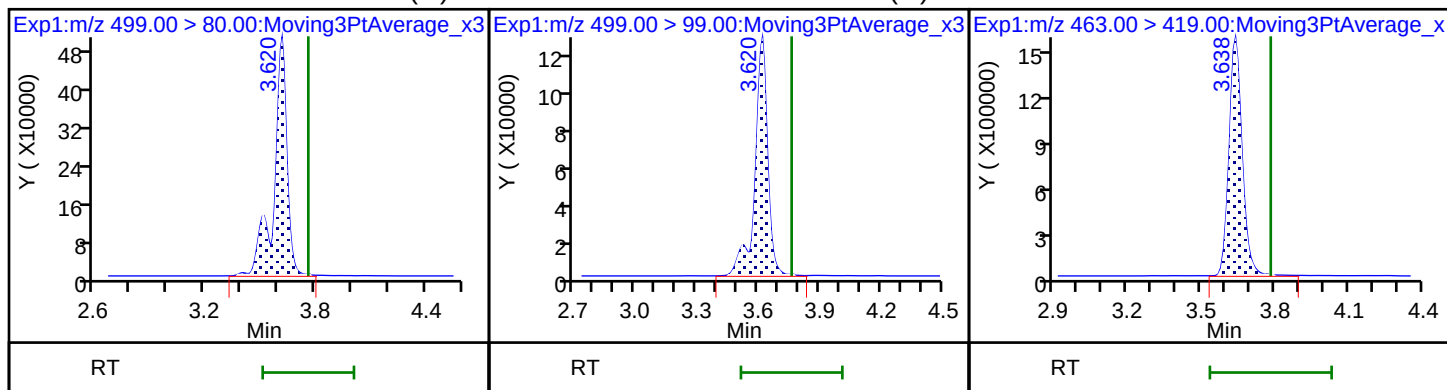
D 18 13C4 PFOS

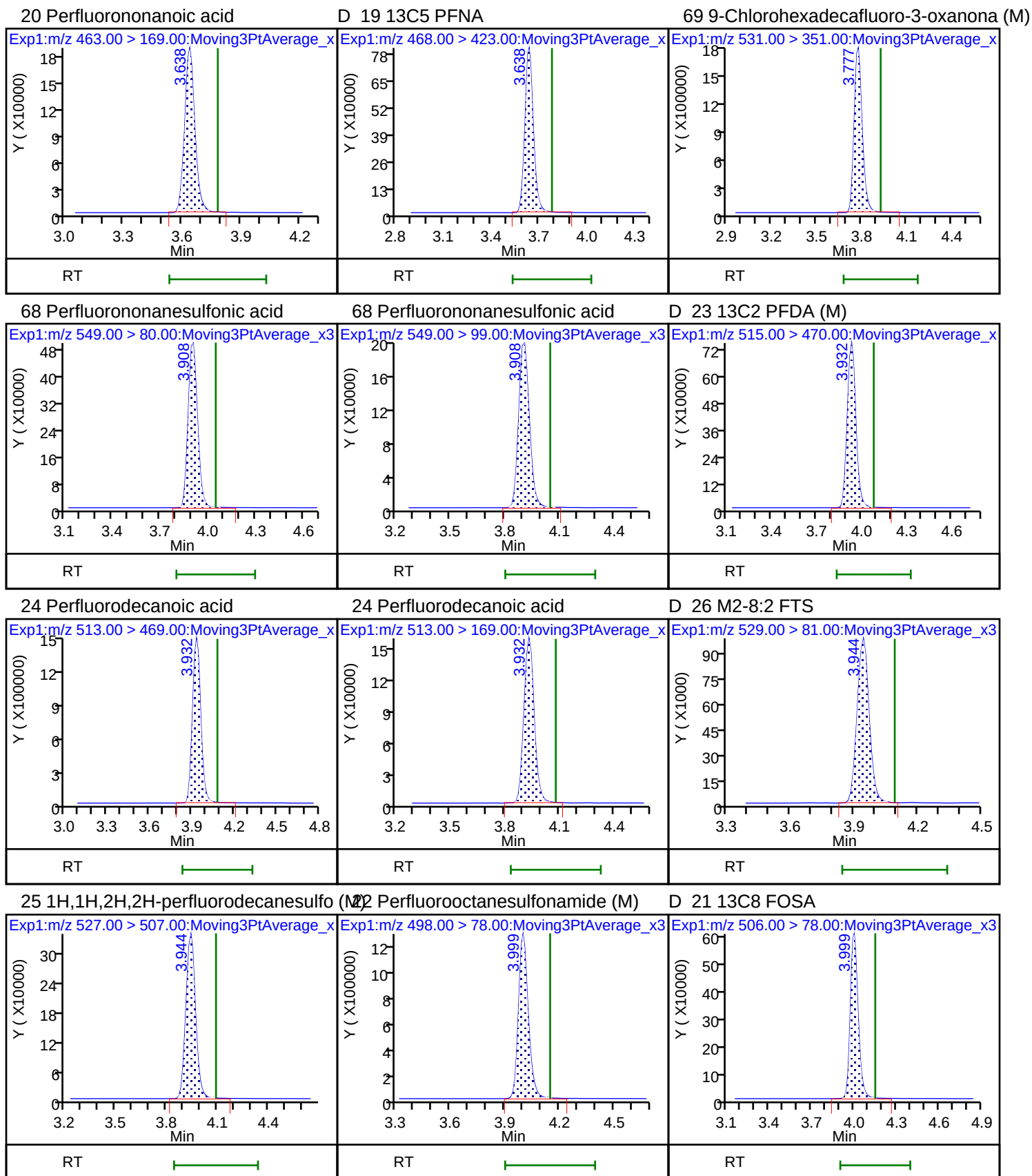


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

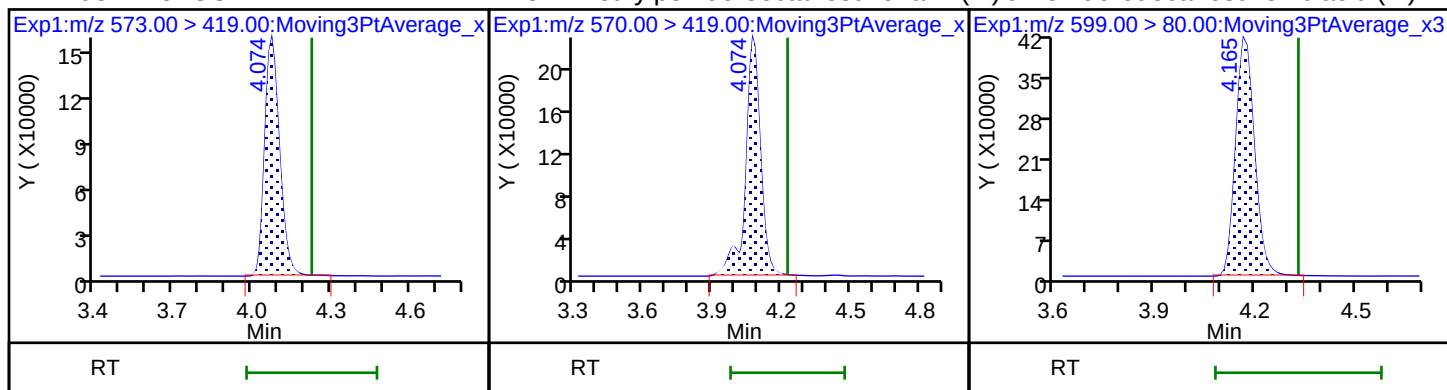
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

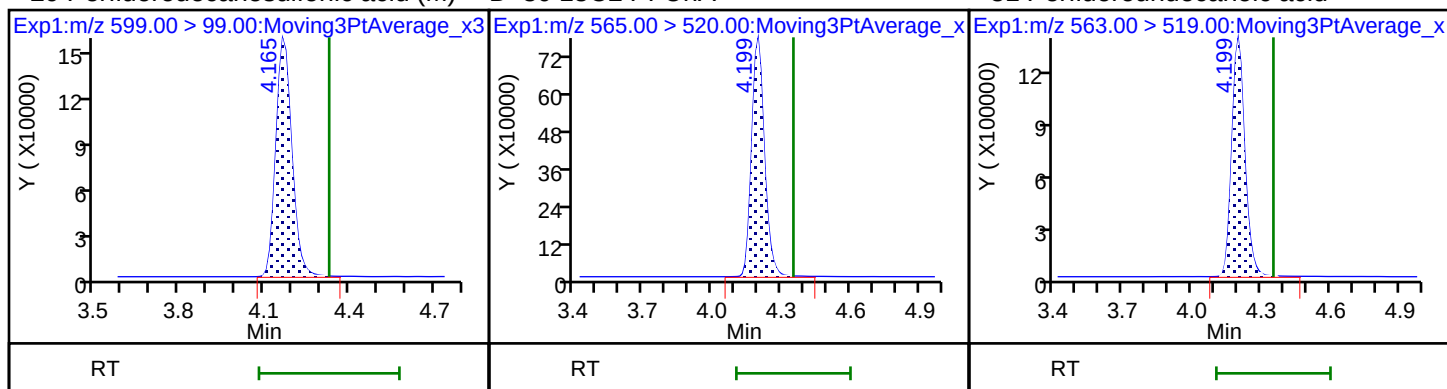
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

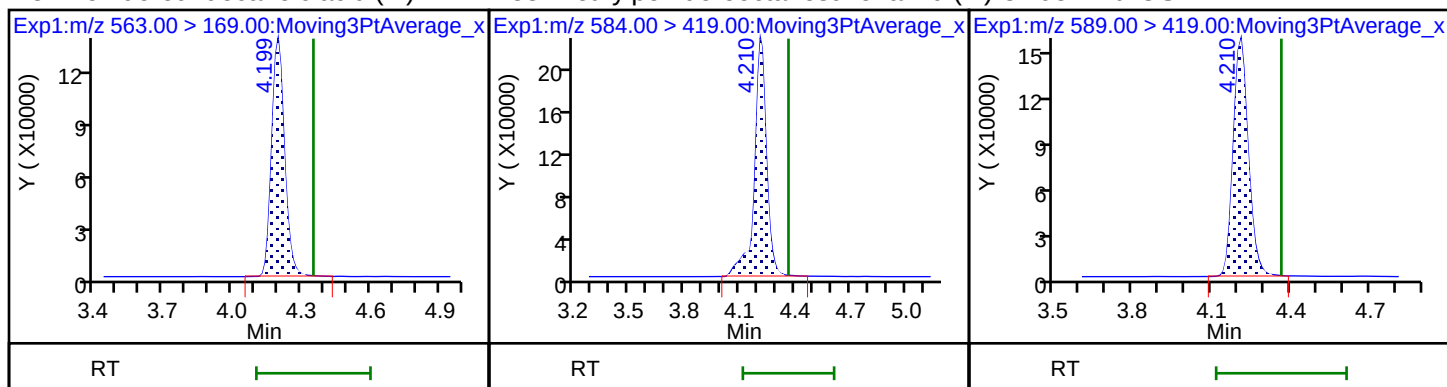
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid



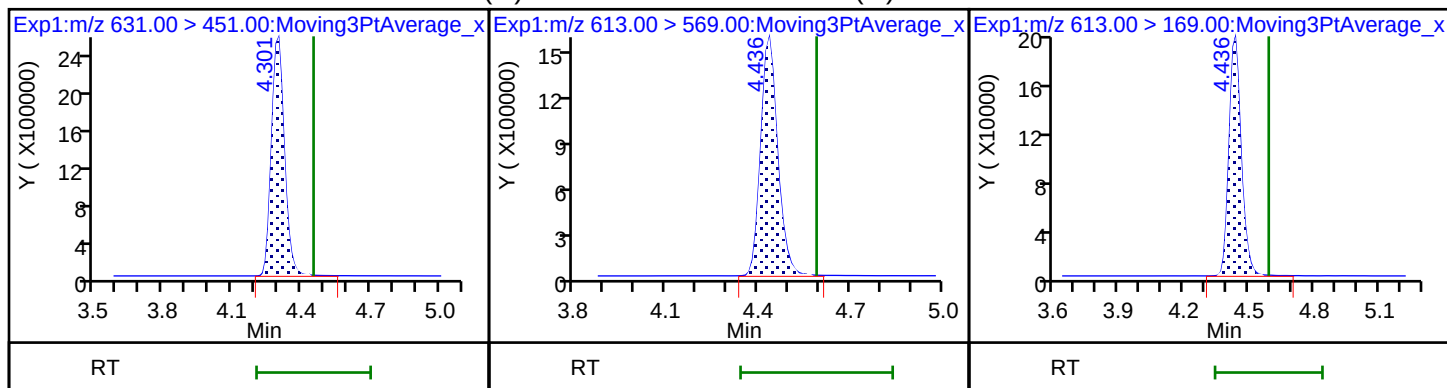
31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



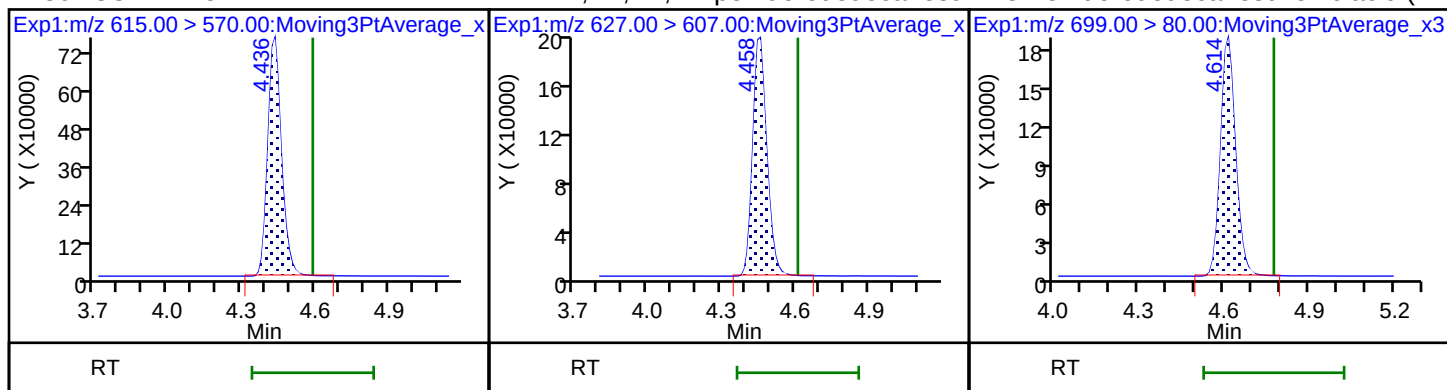
66 11-Chloroeicosafluoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



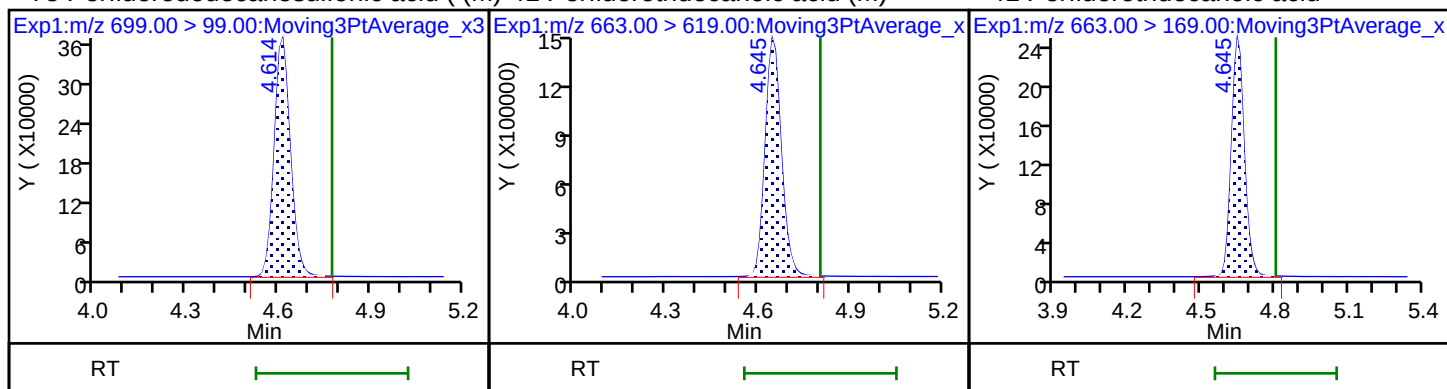
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

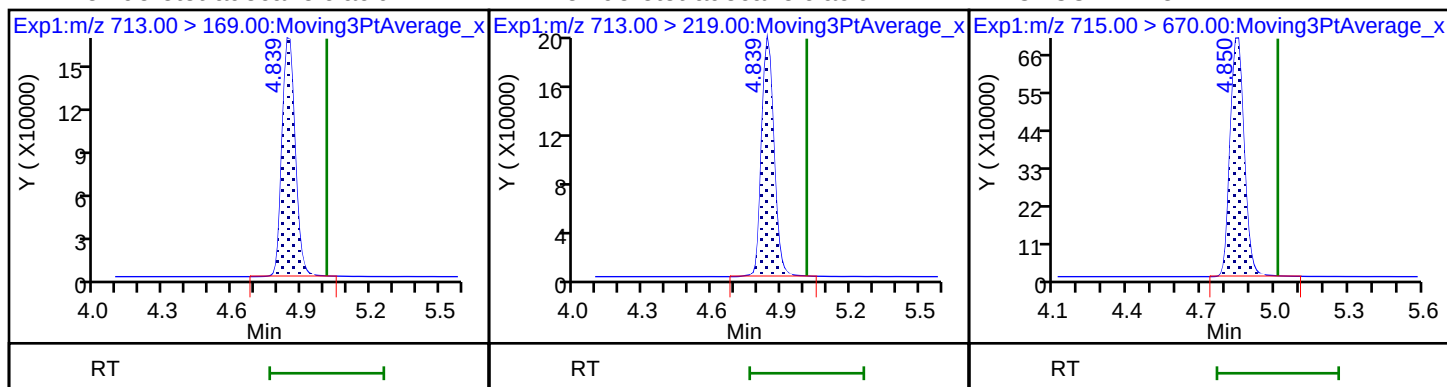
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

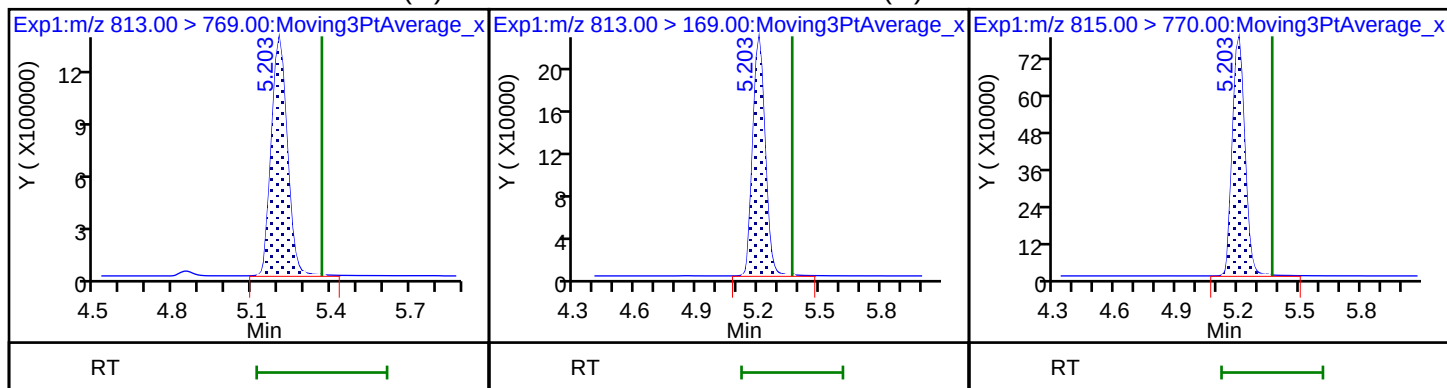
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

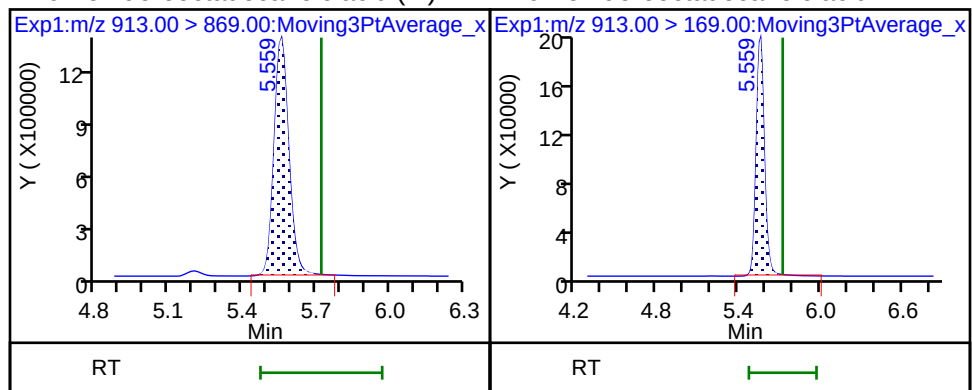
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

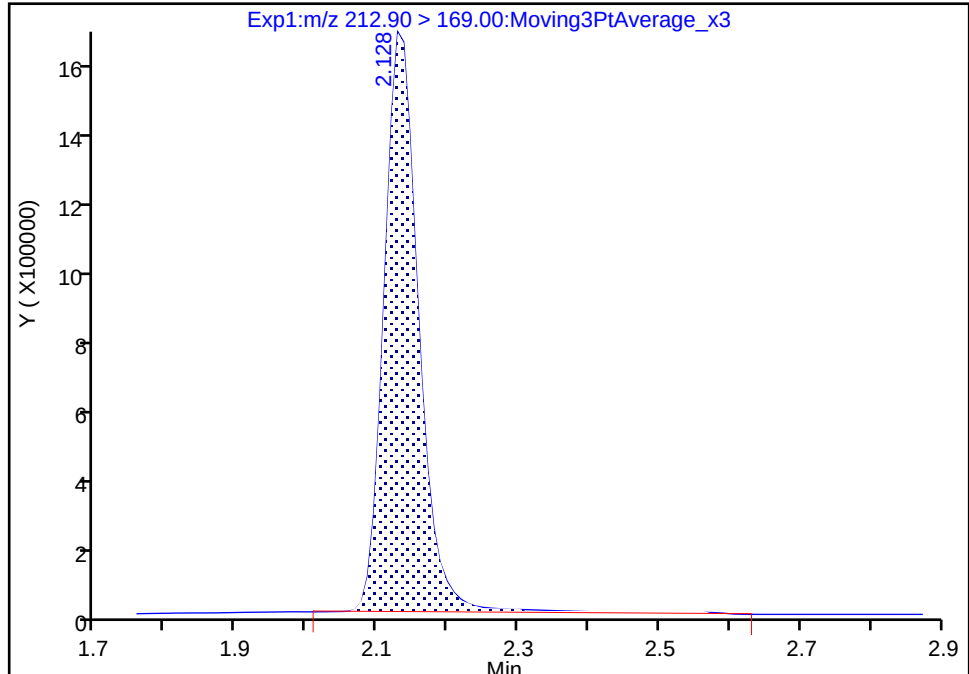
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

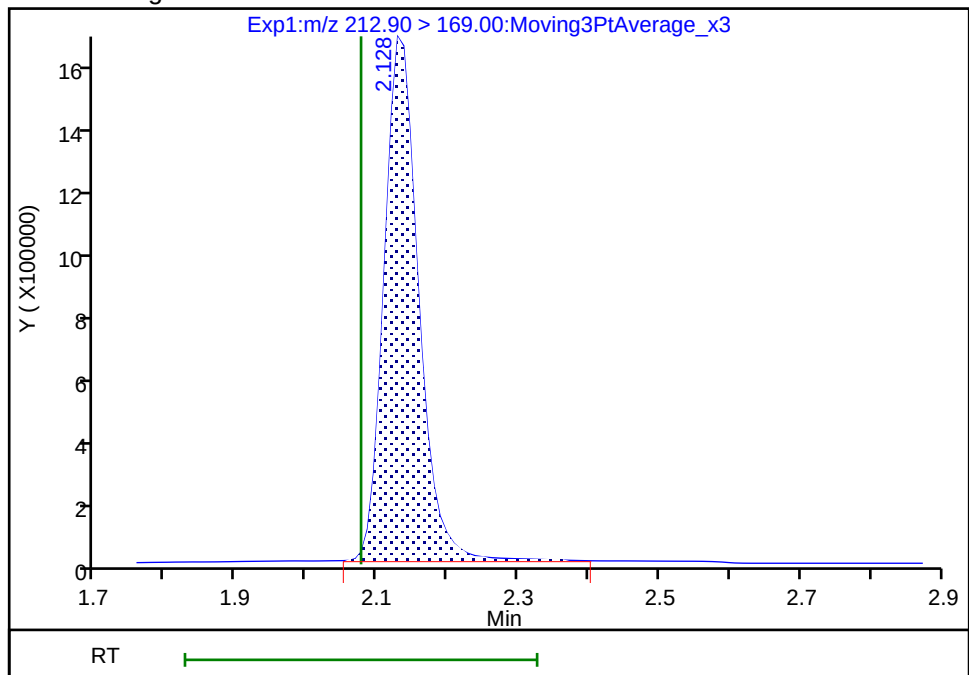
RT: 2.13
Area: 5559704
Amount: 2.257904
Amount Units: ng/ml

Processing Integration Results



RT: 2.13
Area: 5431522
Amount: 2.205847
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:01:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

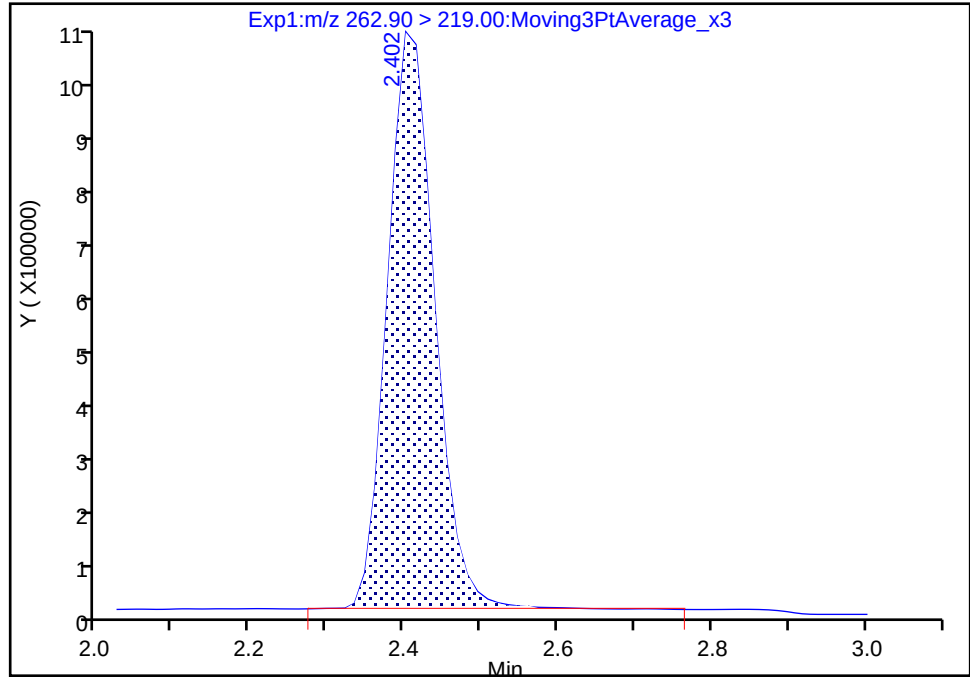
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

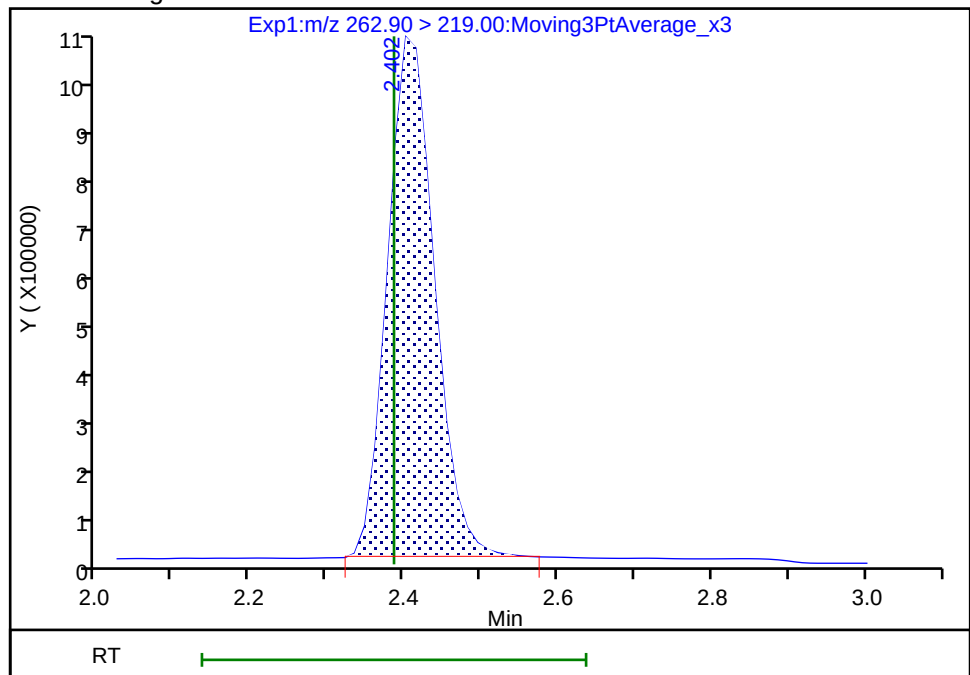
RT: 2.40
Area: 4615134
Amount: 2.317841
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4558413
Amount: 2.289354
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:01:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

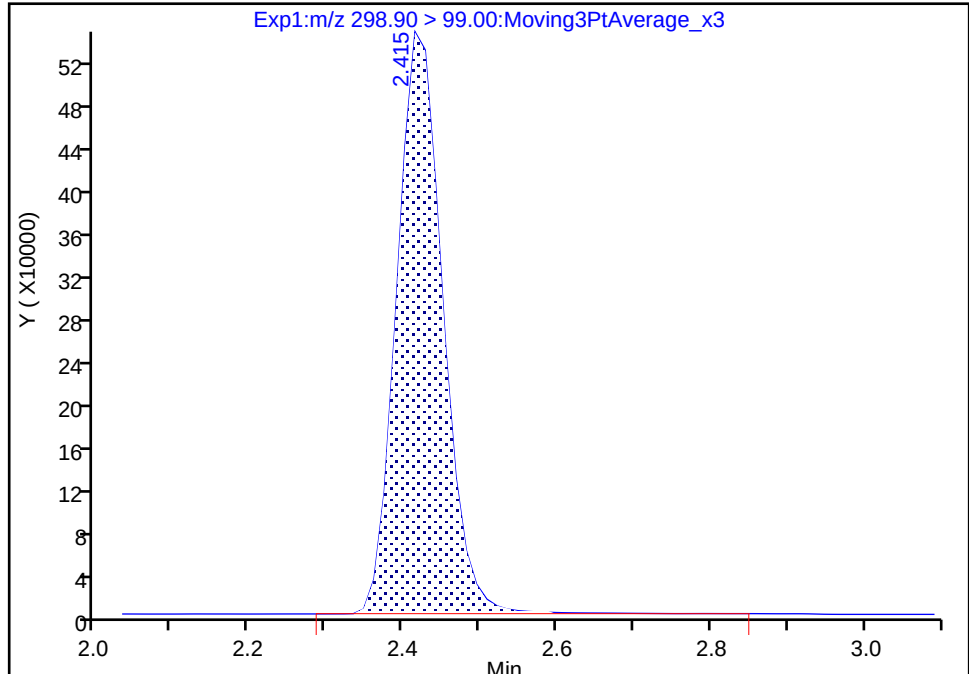
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

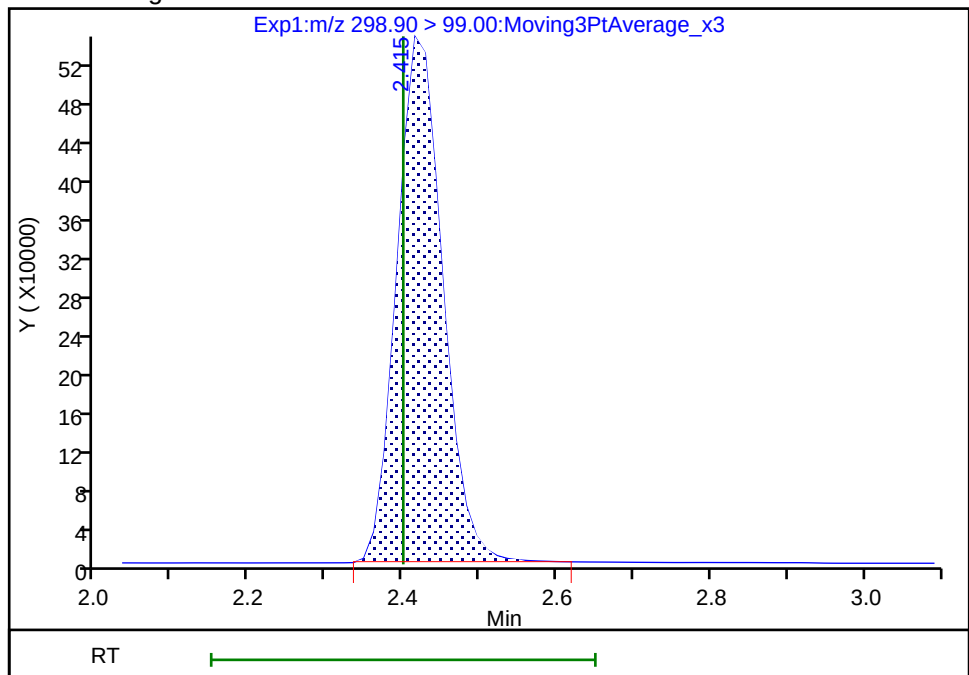
RT: 2.42
Area: 2278863
Amount: 1.934390
Amount Units: ng/ml

Processing Integration Results



RT: 2.42
Area: 2265214
Amount: 1.934390
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:01:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

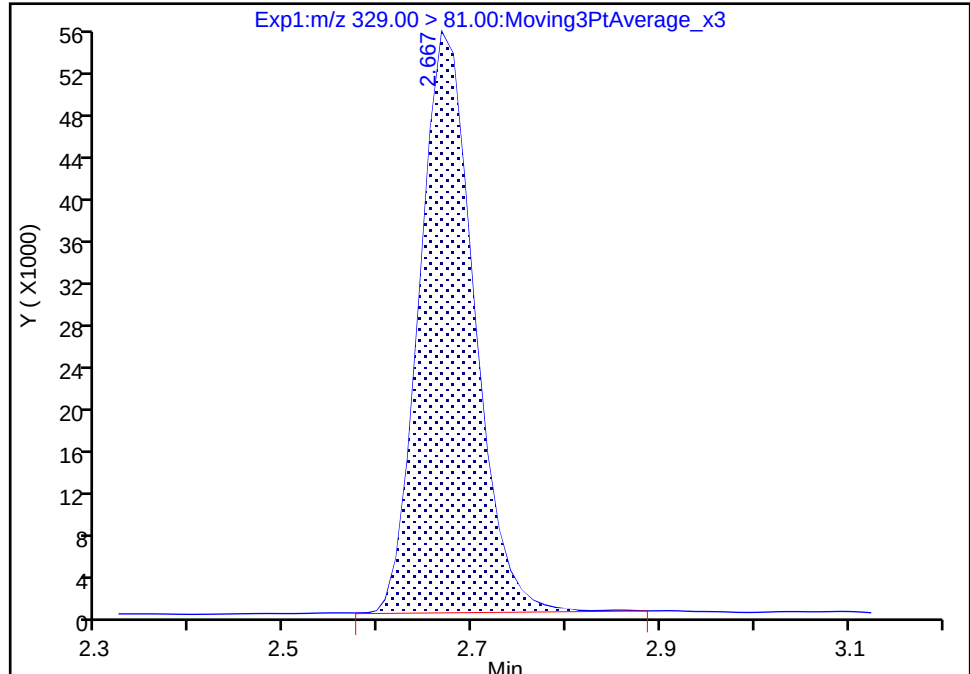
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

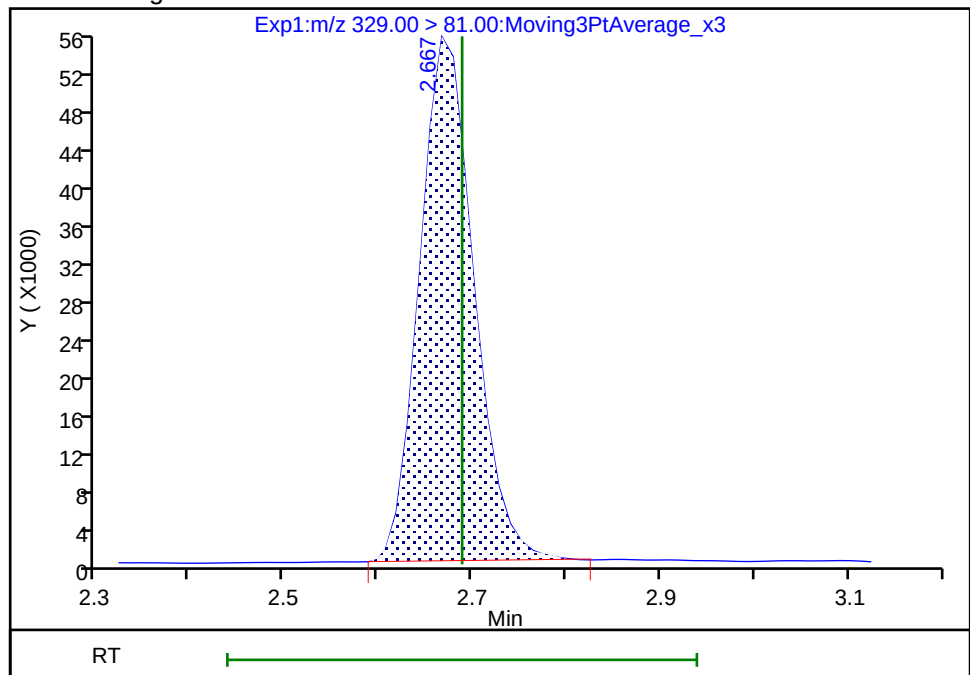
RT: 2.67
Area: 221021
Amount: 1.193377
Amount Units: ng/ml

Processing Integration Results



RT: 2.67
Area: 220143
Amount: 1.188637
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:00:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

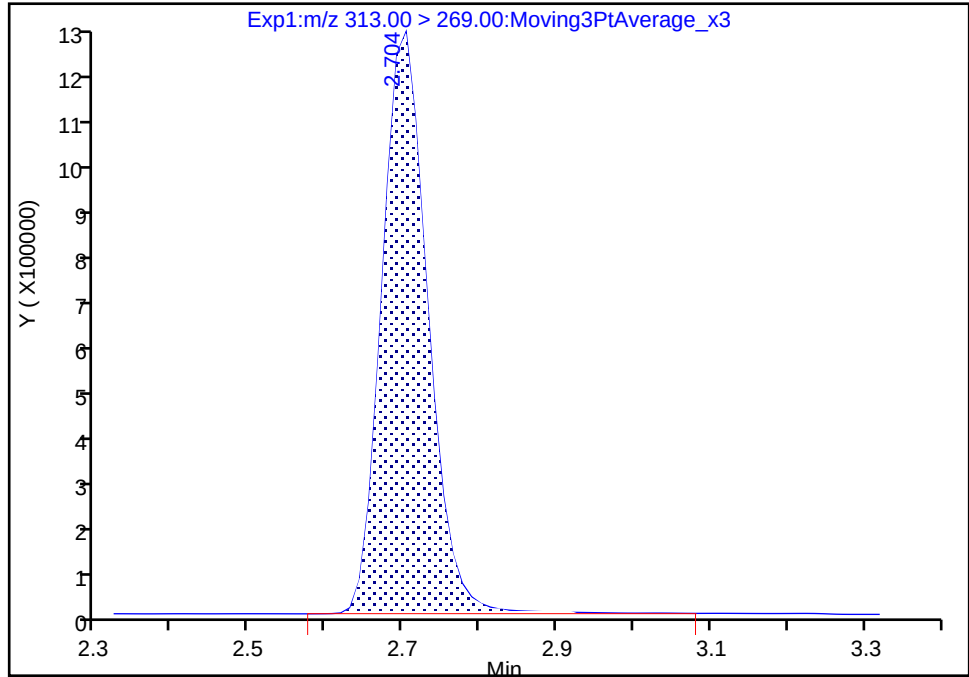
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

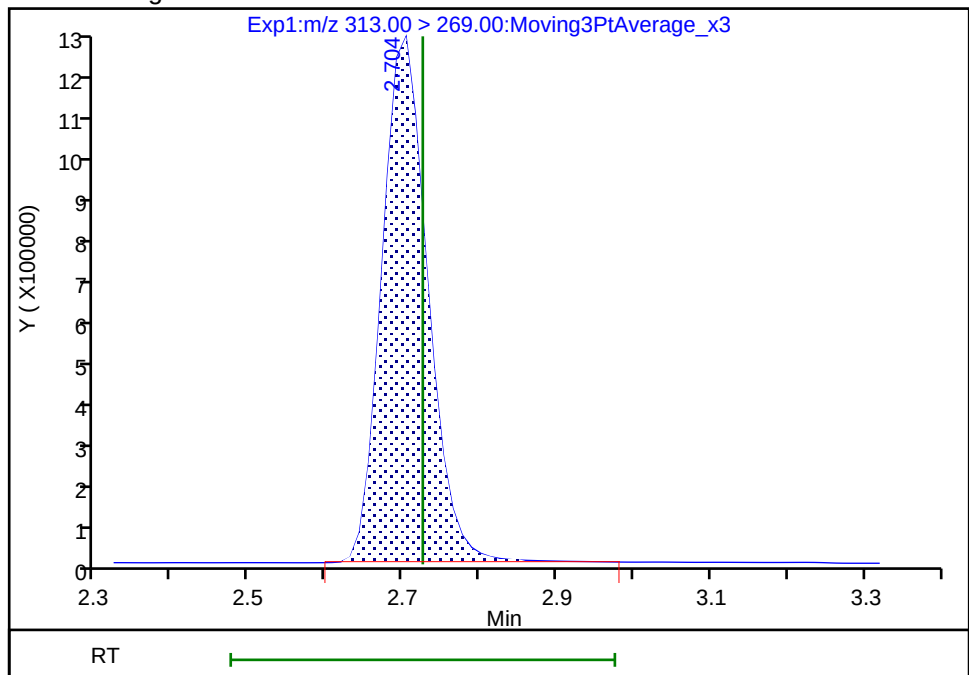
RT: 2.70
Area: 5030676
Amount: 2.282838
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 5014996
Amount: 2.275723
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

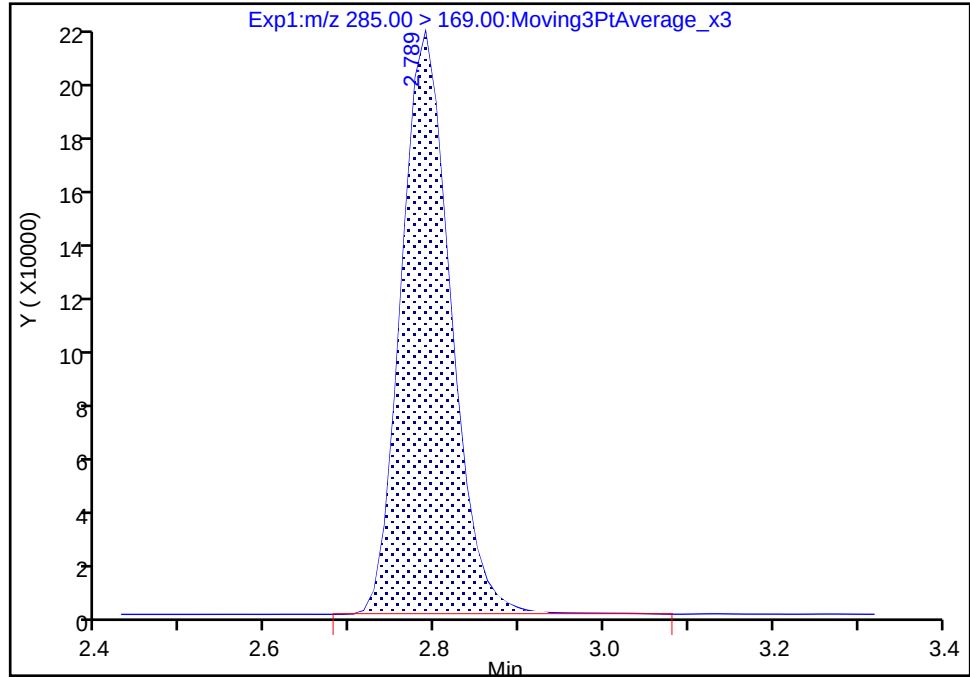
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

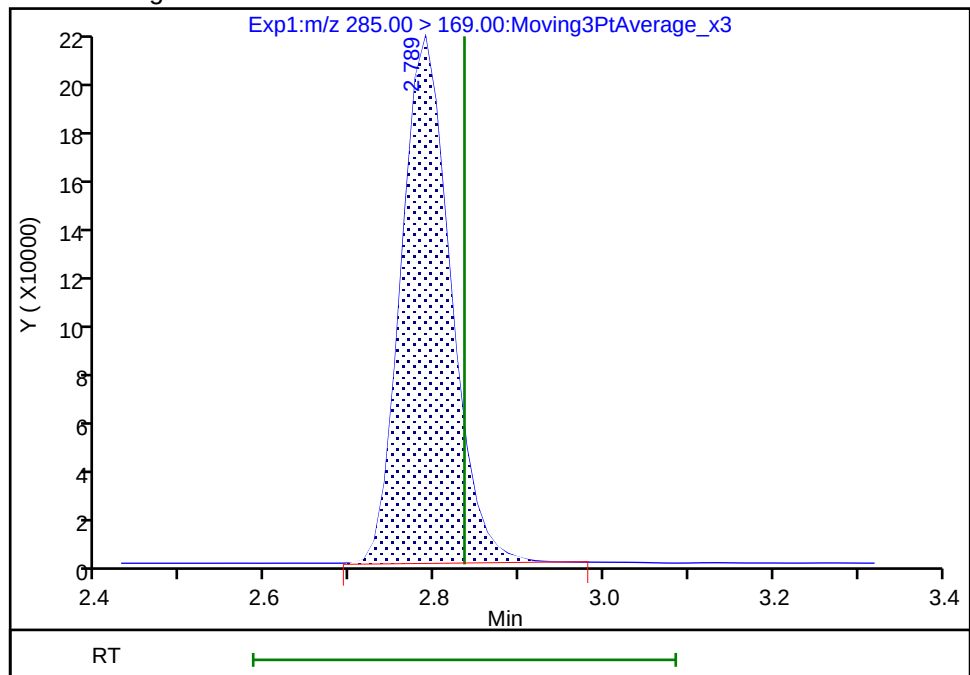
RT: 2.79
Area: 894465
Amount: 2.226493
Amount Units: ng/ml

Processing Integration Results



RT: 2.79
Area: 888625
Amount: 2.211956
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

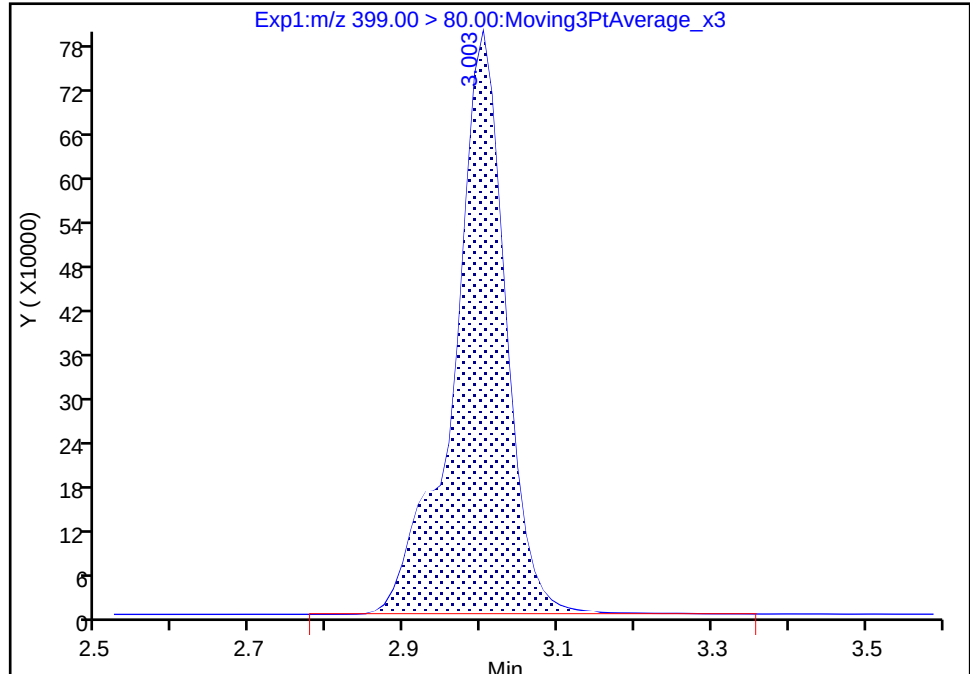
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

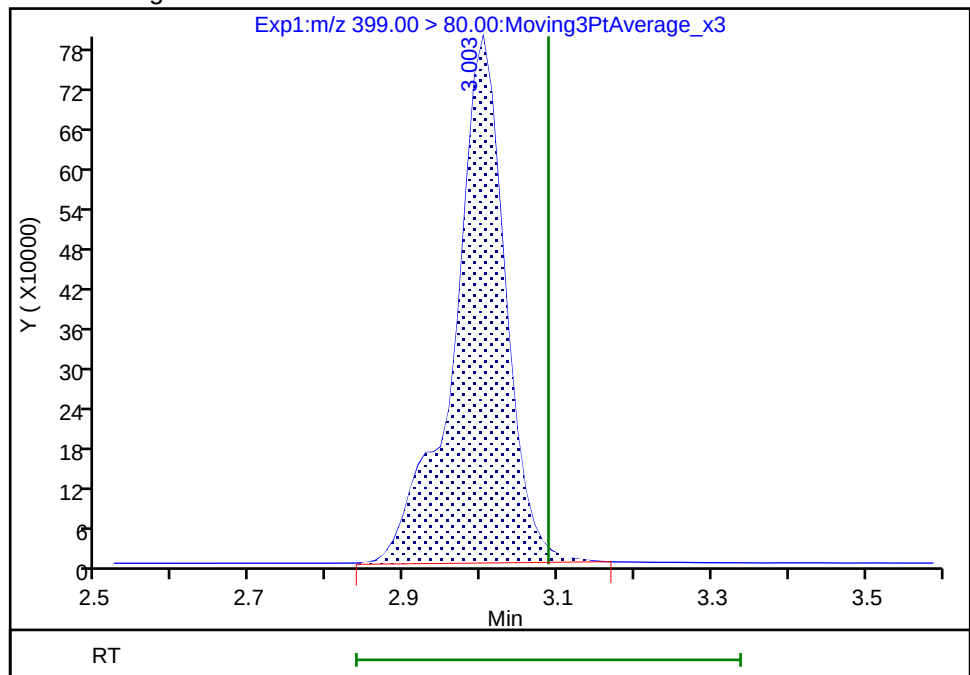
RT: 3.00
Area: 3733247
Amount: 2.168054
Amount Units: ng/ml

Processing Integration Results



RT: 3.00
Area: 3704756
Amount: 2.151508
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

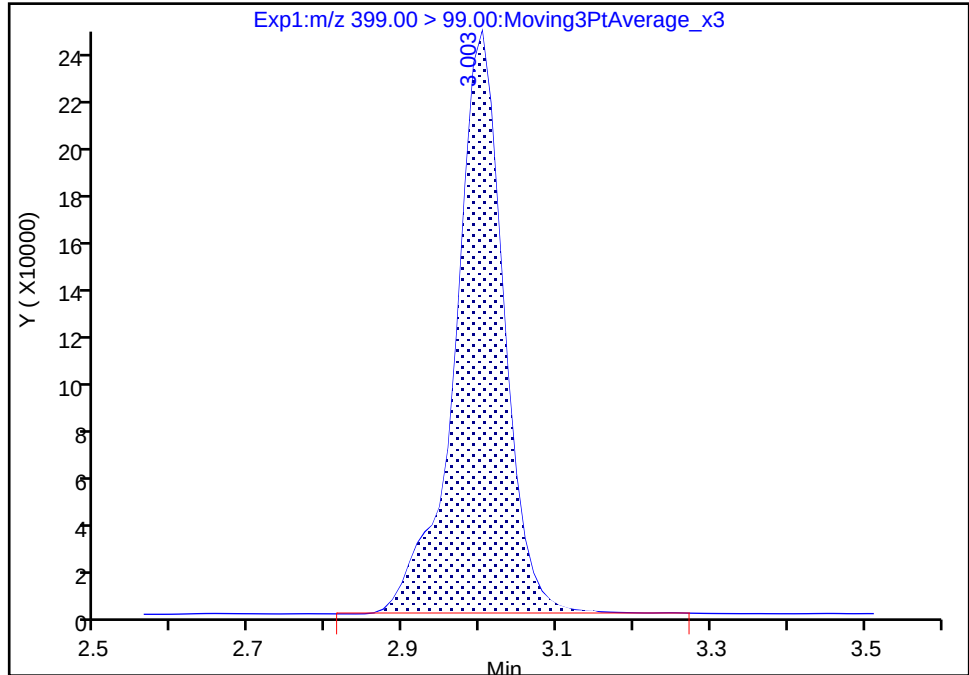
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

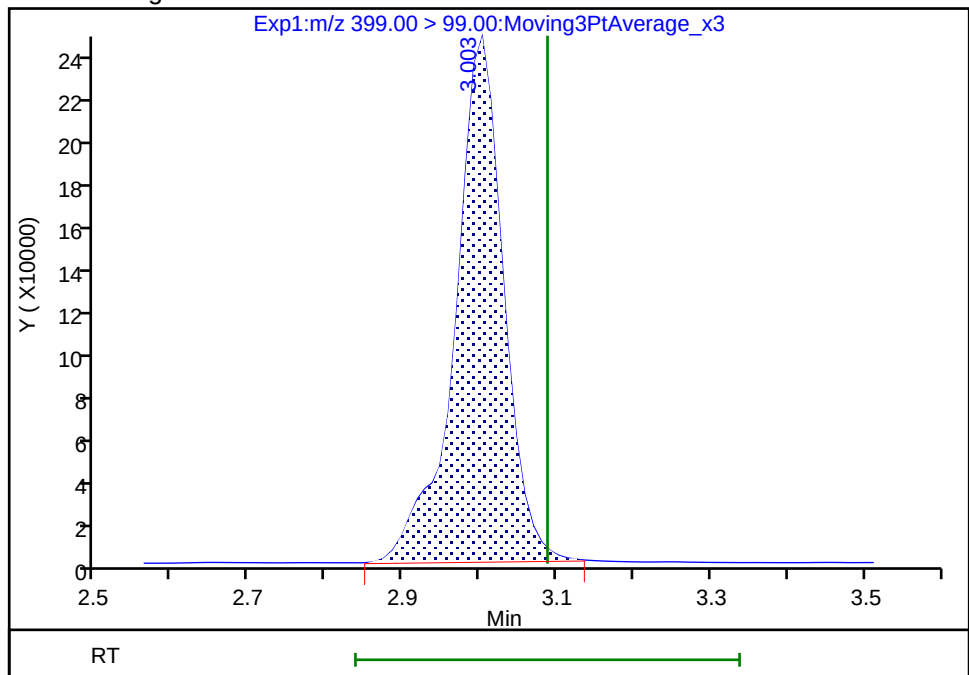
RT: 3.00
Area: 1074146
Amount: 2.168054
Amount Units: ng/ml

Processing Integration Results



RT: 3.00
Area: 1061882
Amount: 2.151508
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 768 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

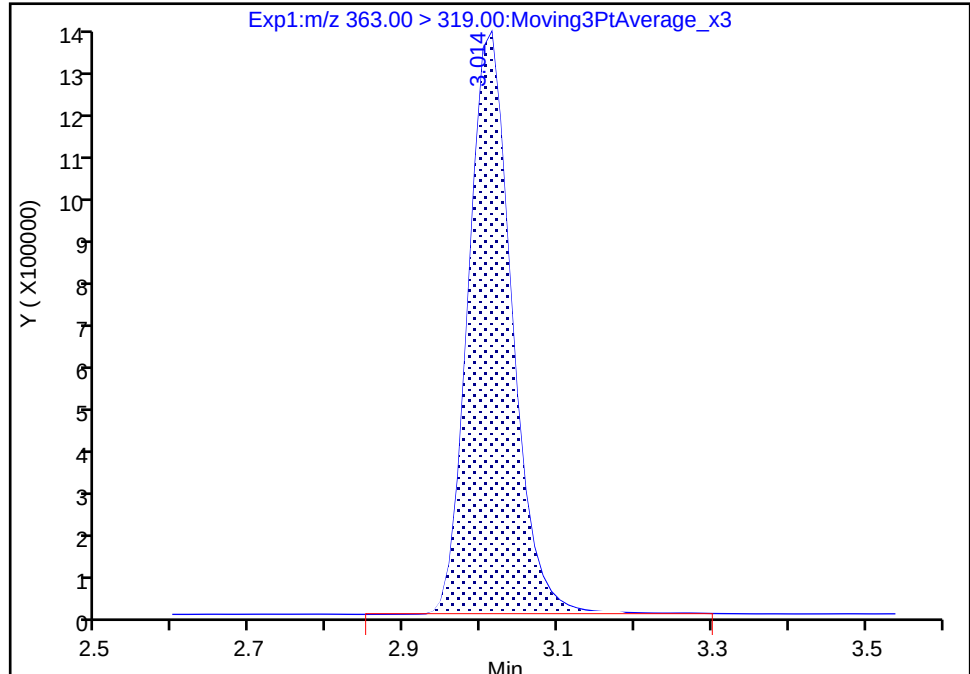
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

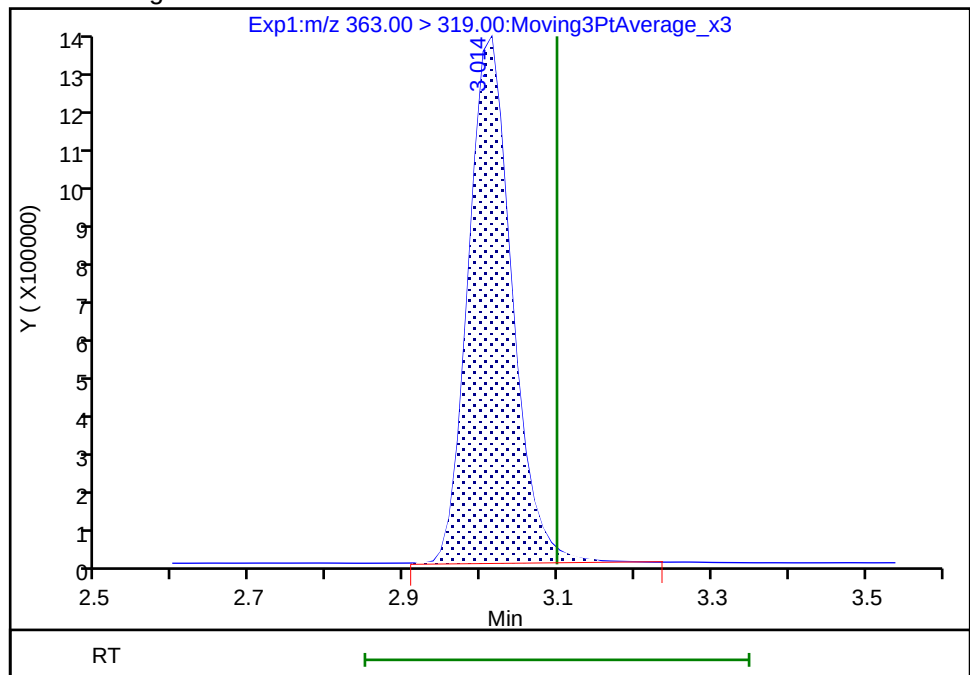
RT: 3.01
Area: 5261815
Amount: 2.169538
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 5245358
Amount: 2.162752
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

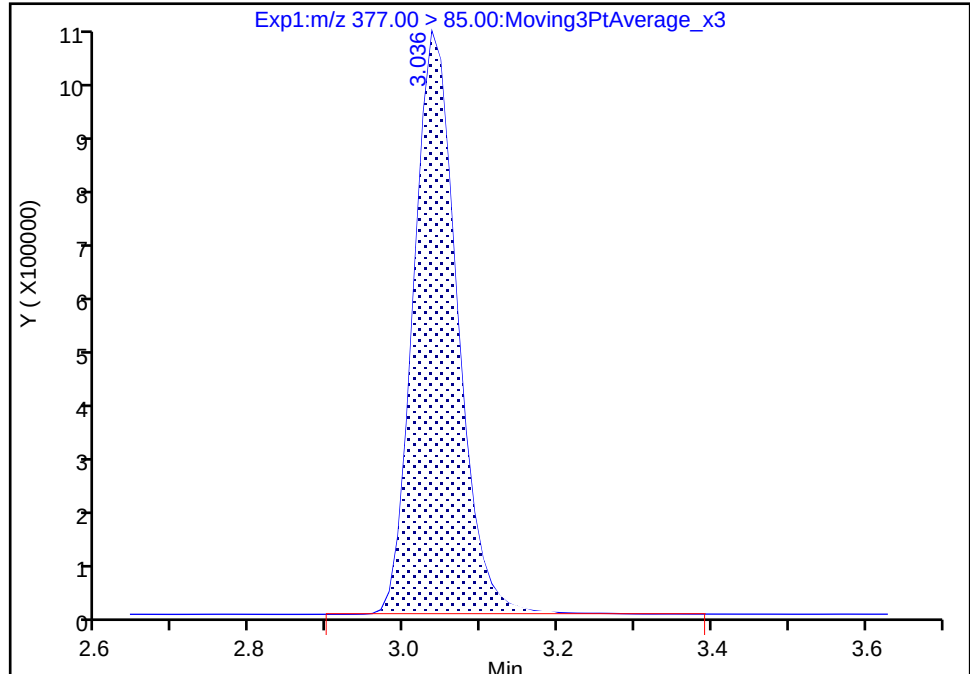
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

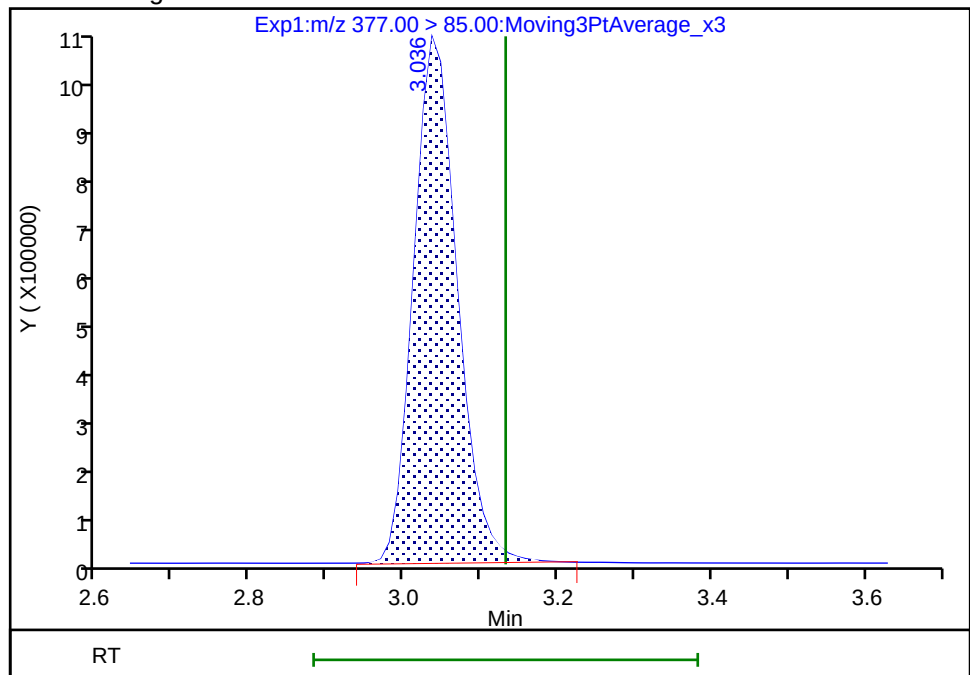
RT: 3.04
Area: 3992927
Amount: 2.278886
Amount Units: ng/ml

Processing Integration Results



RT: 3.04
Area: 3971642
Amount: 2.273532
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d

Injection Date: 31-Dec-2022 00:20:10

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

15

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

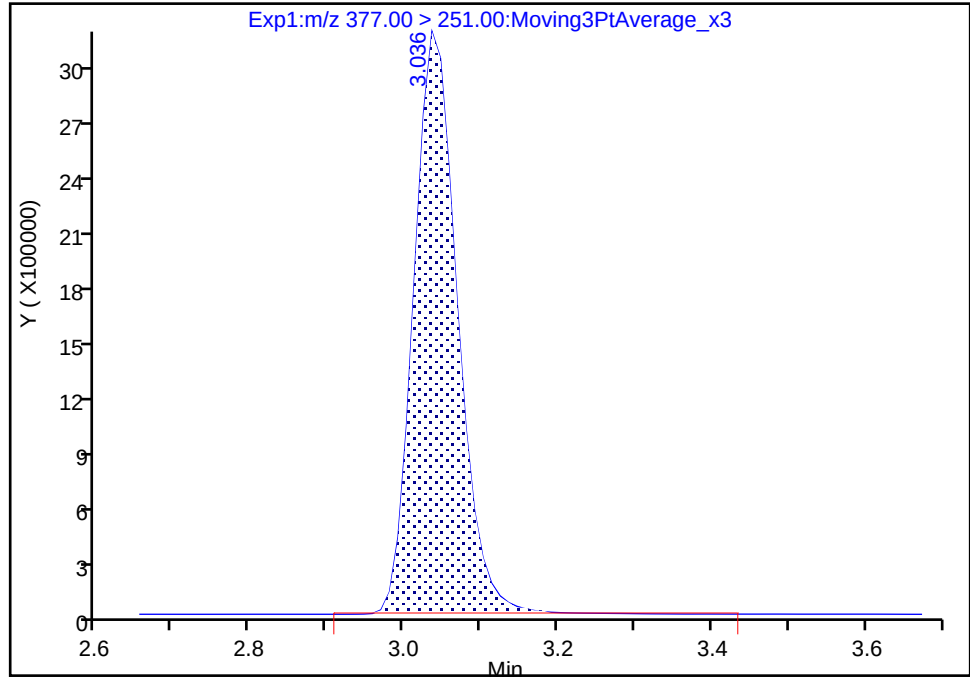
EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

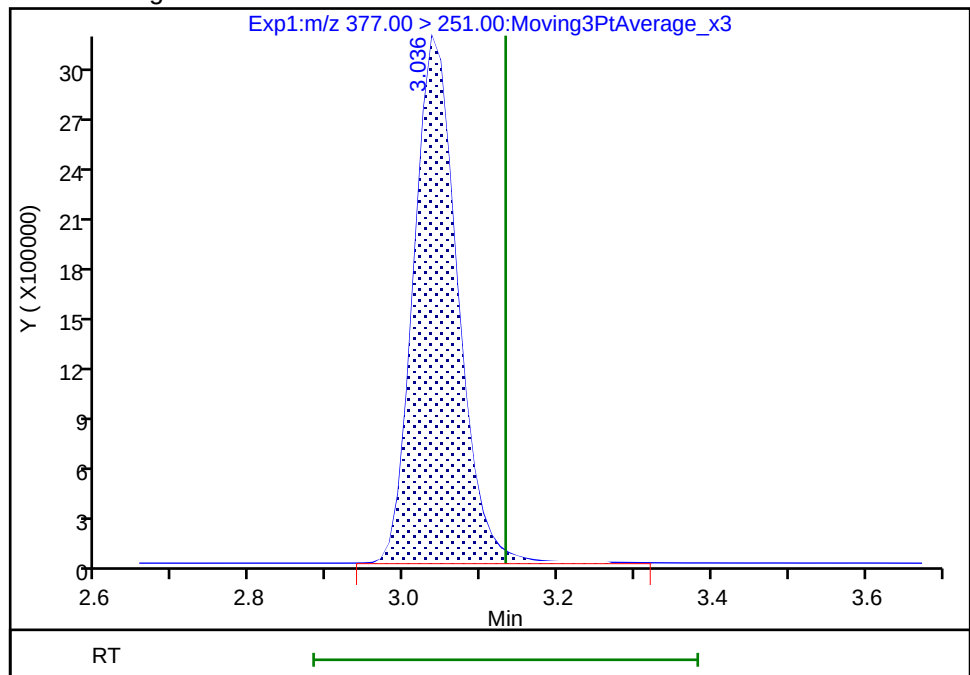
RT: 3.04
Area: 12447102
Amount: 2.278886
Amount Units: ng/ml

Processing Integration Results



RT: 3.04
Area: 12417861
Amount: 2.273532
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

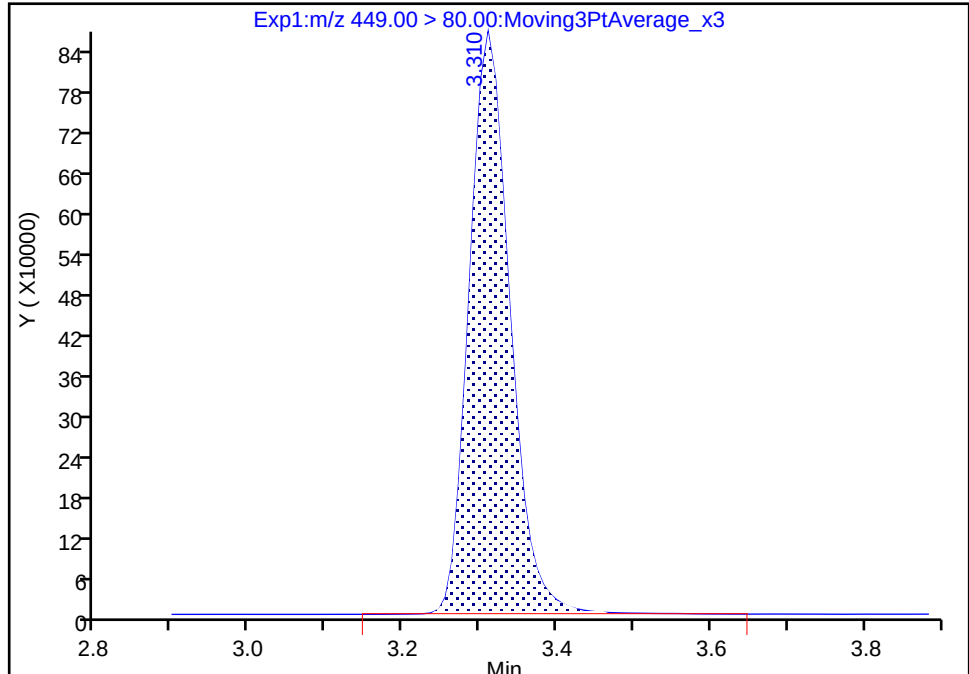
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

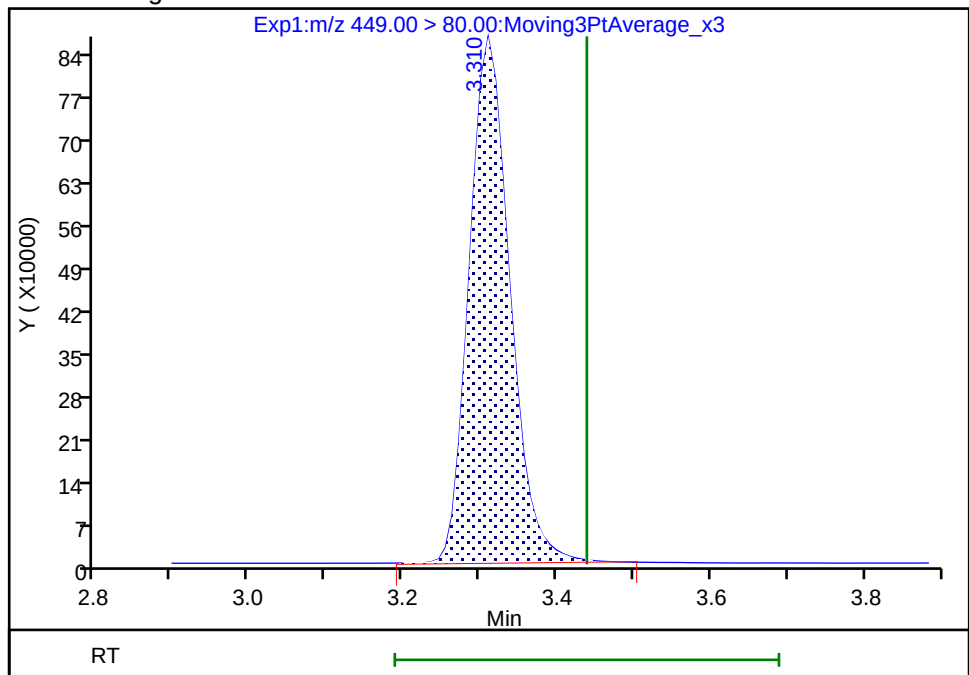
RT: 3.31
Area: 3177755
Amount: 2.293965
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 3156902
Amount: 2.278912
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:03:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

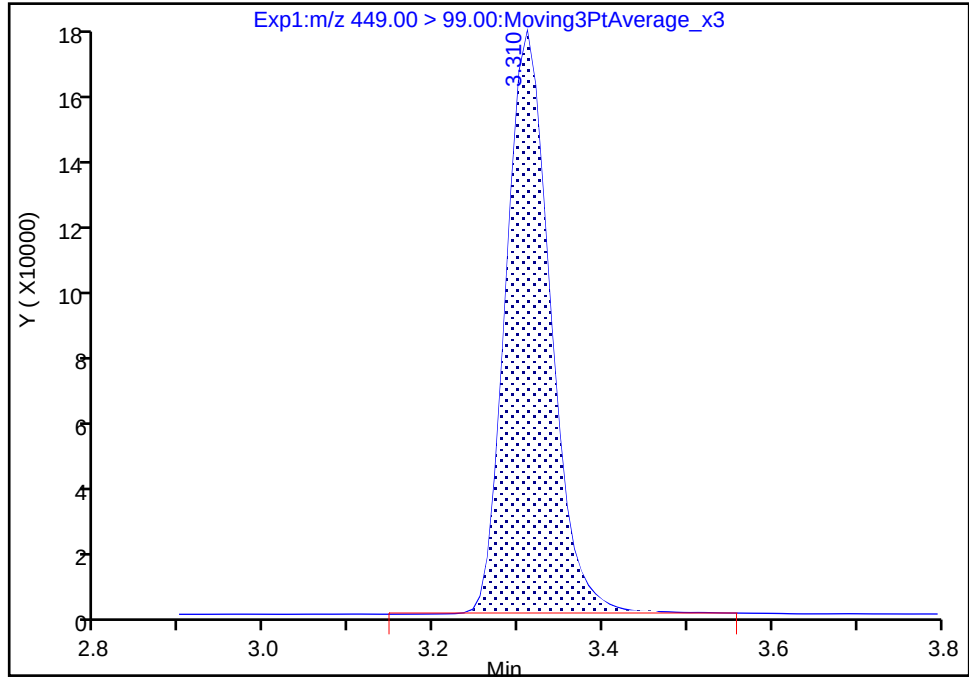
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

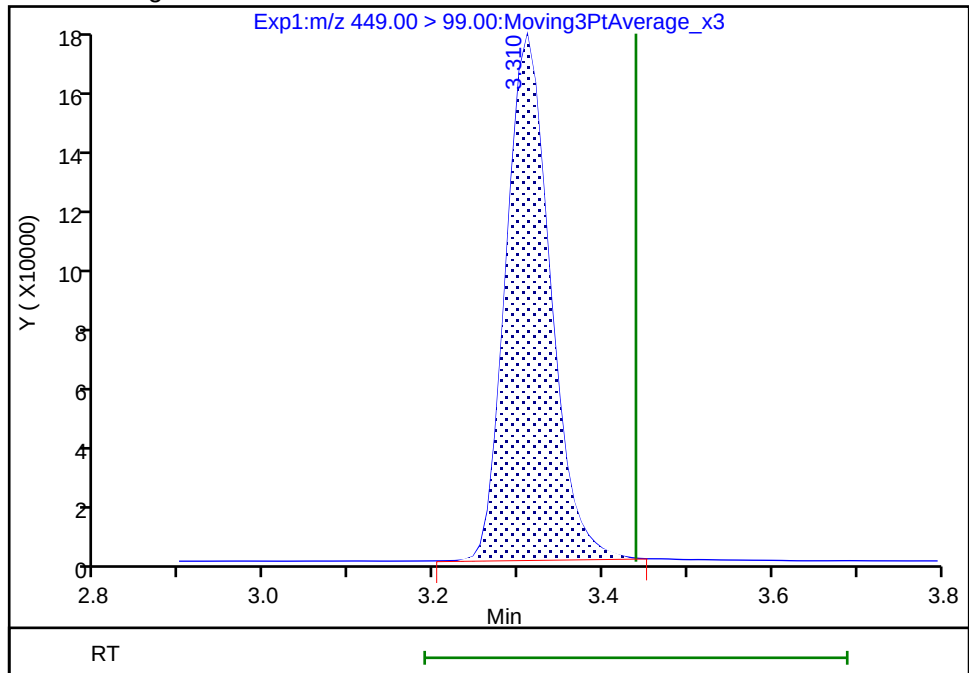
RT: 3.31
Area: 642051
Amount: 2.293965
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 638693
Amount: 2.278912
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:03:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 773 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

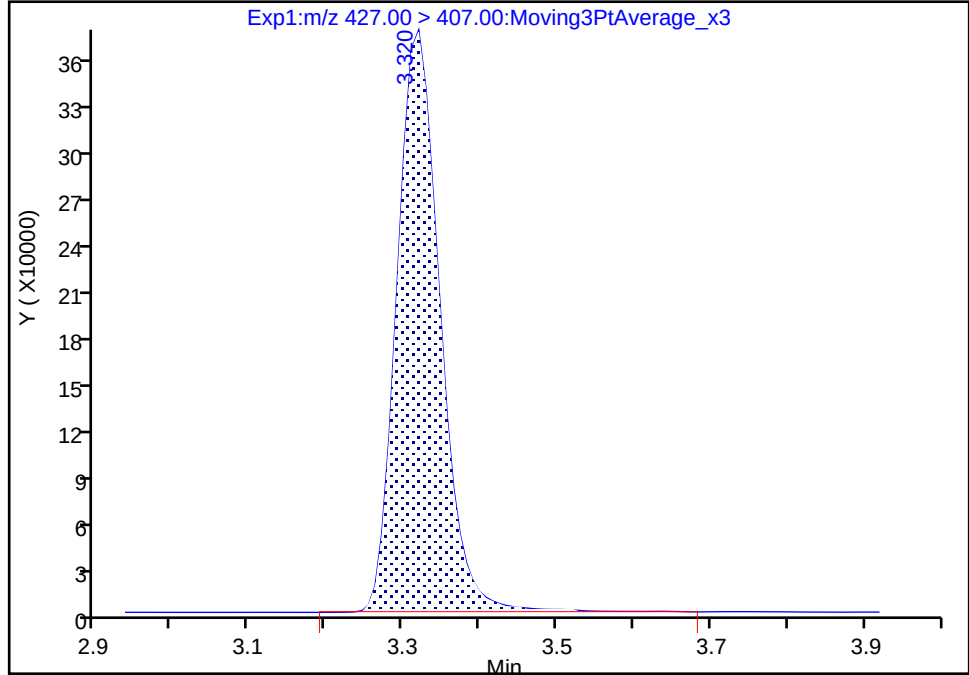
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

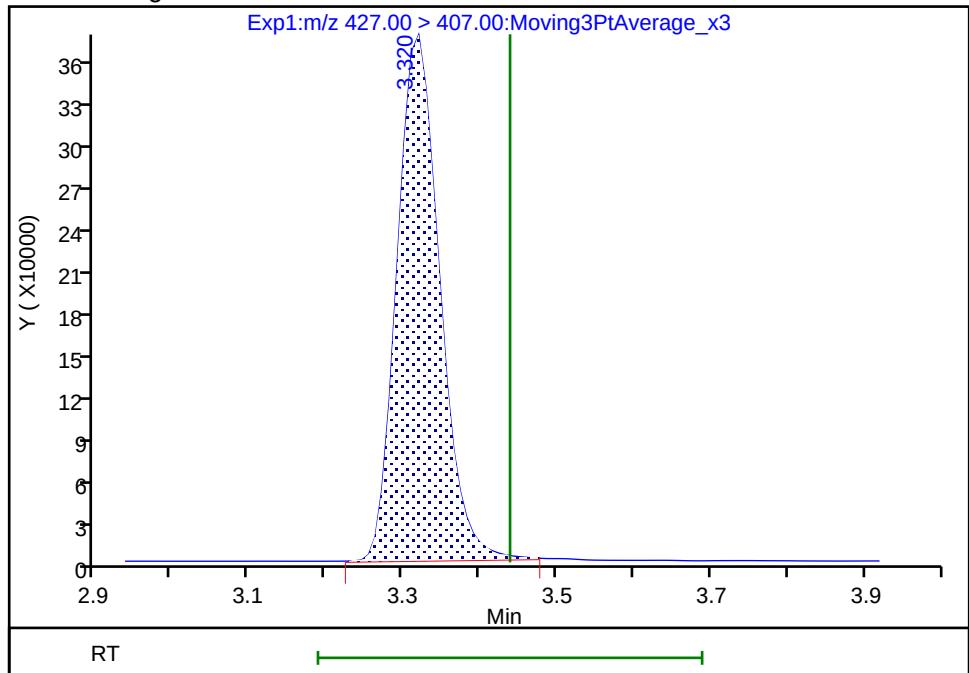
RT: 3.32
Area: 1471590
Amount: 2.361532
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 1459291
Amount: 2.341696
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:02:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

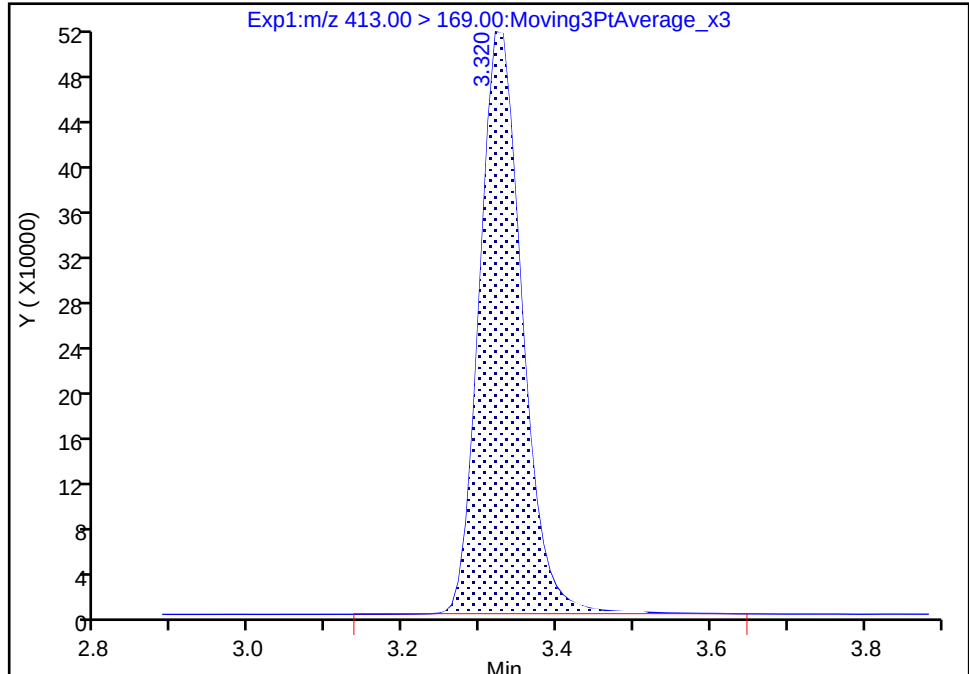
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

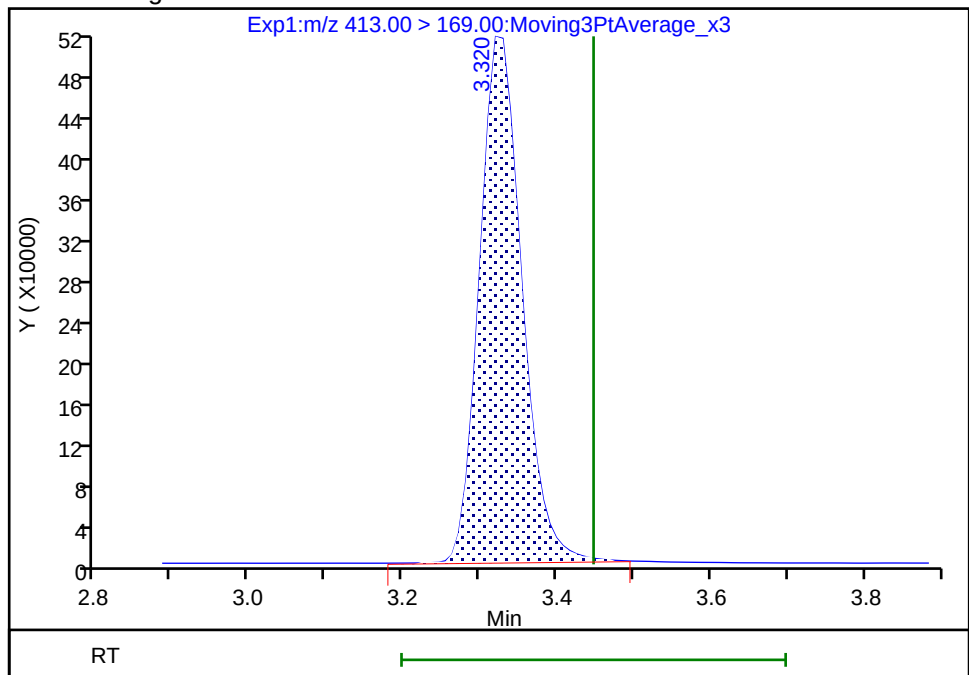
RT: 3.32
Area: 1997961
Amount: 2.333017
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 1987551
Amount: 2.341903
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:03:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d

Injection Date: 31-Dec-2022 00:20:10

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

15

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

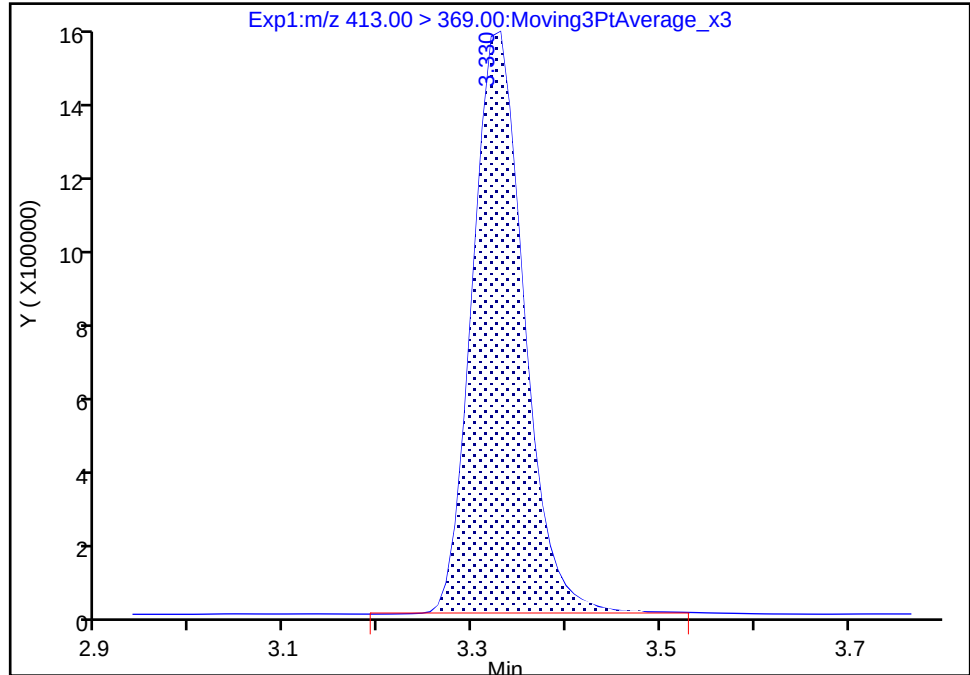
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

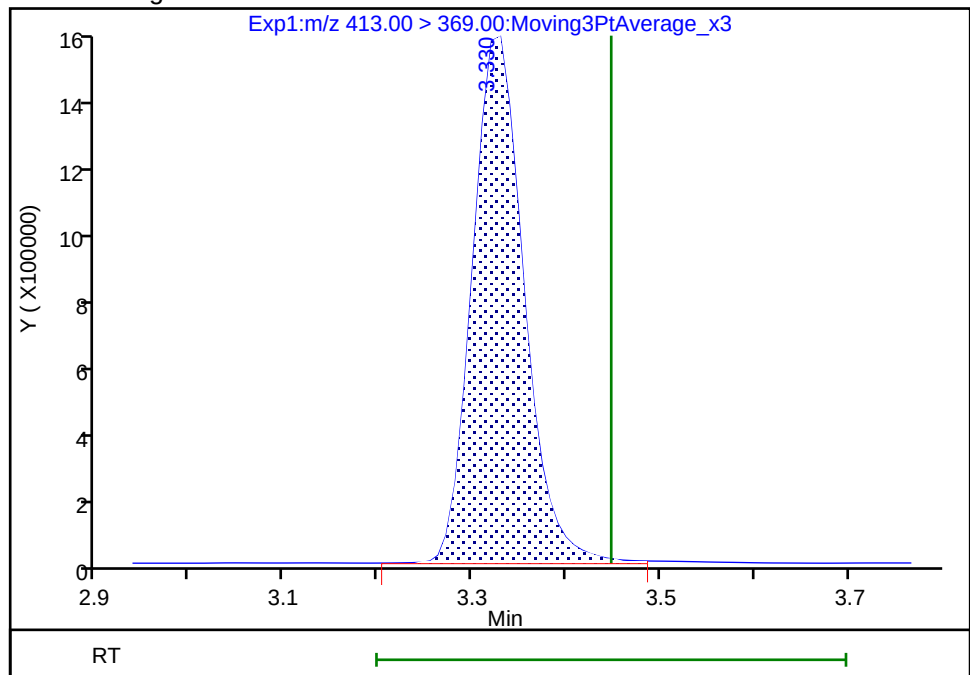
RT: 3.33
Area: 5874644
Amount: 2.333017
Amount Units: ng/ml

Processing Integration Results



RT: 3.33
Area: 5897019
Amount: 2.341903
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:03:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

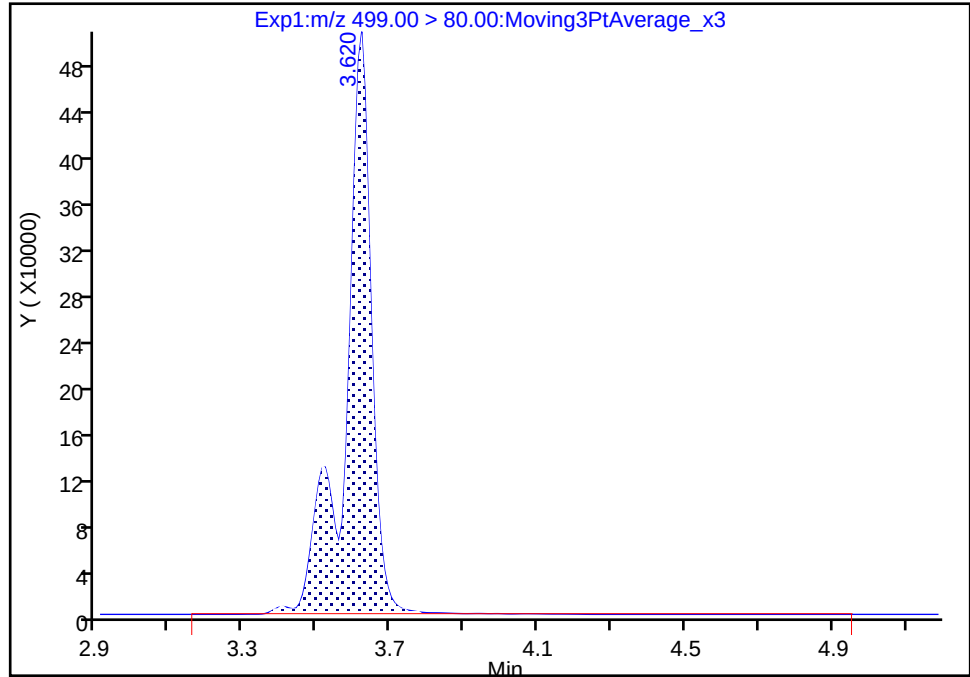
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

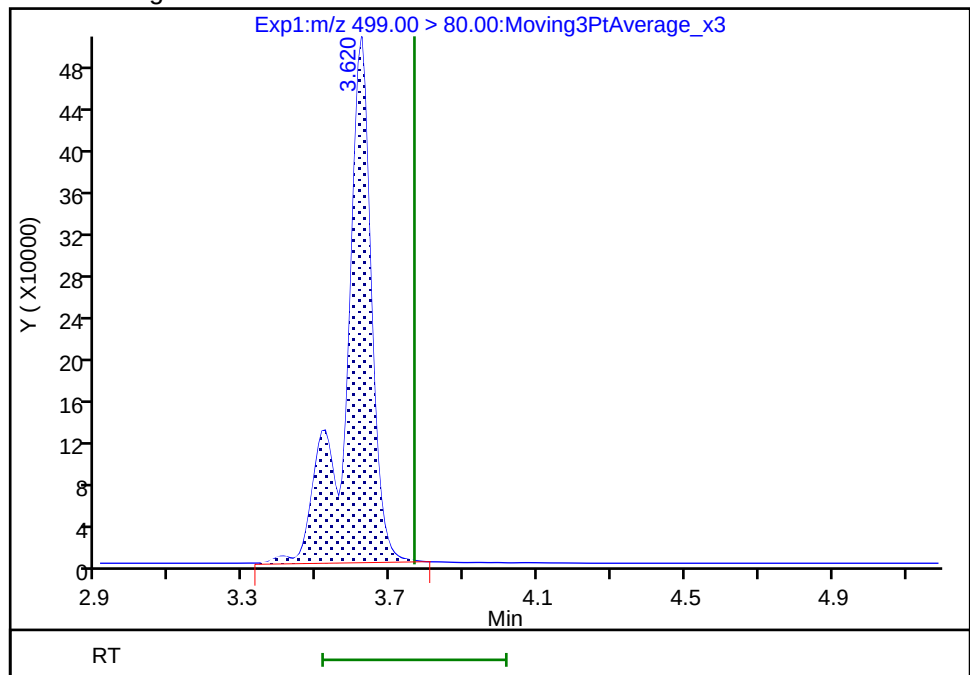
RT: 3.62
Area: 2508192
Amount: 2.079470
Amount Units: ng/ml

Processing Integration Results



RT: 3.62
Area: 2470671
Amount: 2.048363
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d

Injection Date: 31-Dec-2022 00:20:10

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

15

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

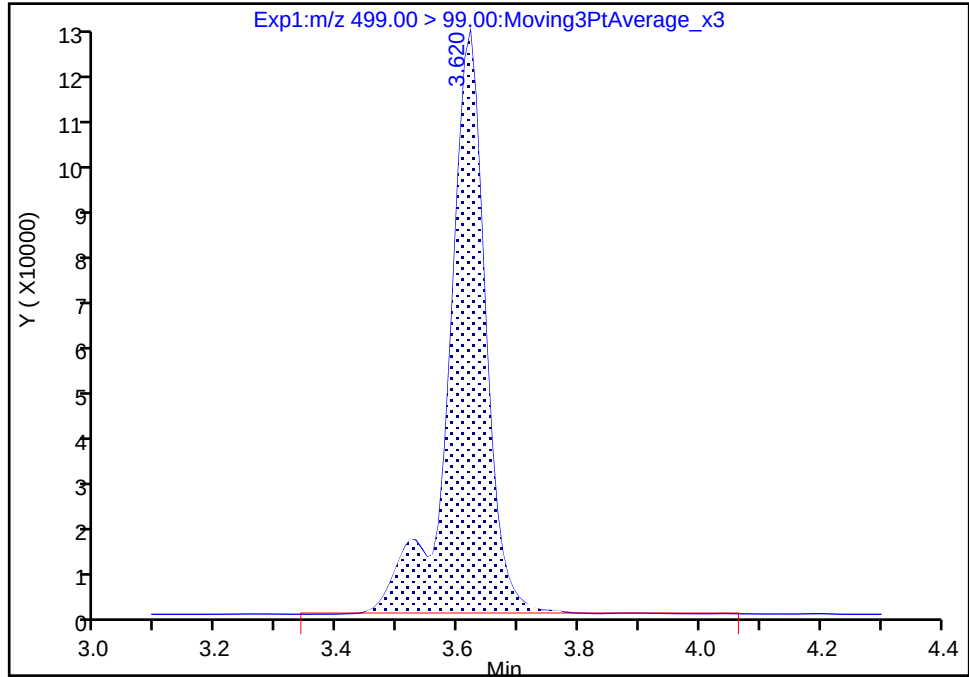
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

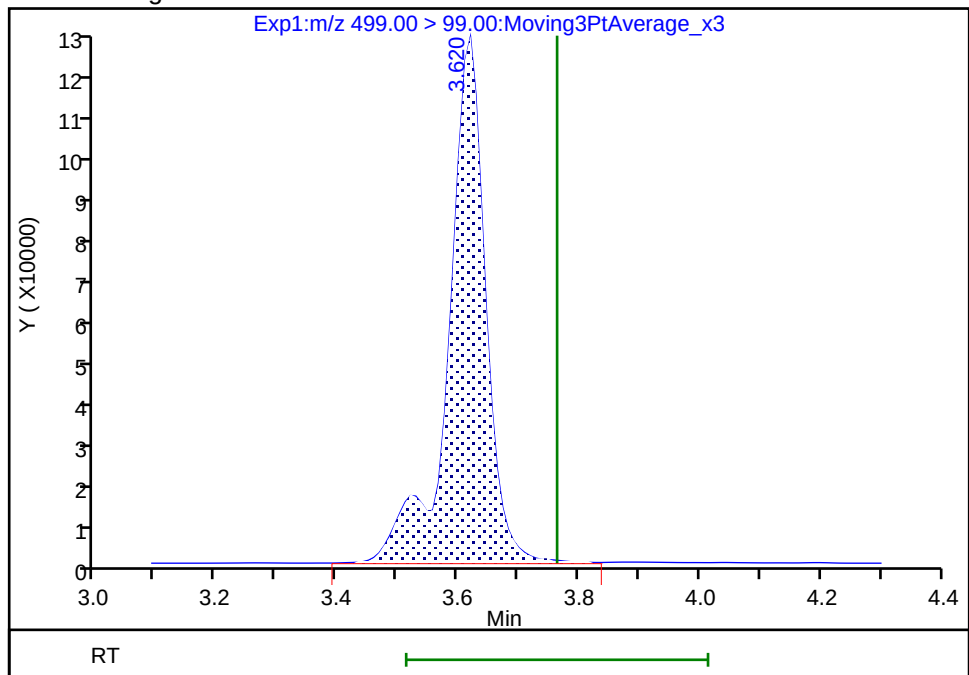
RT: 3.62
Area: 553256
Amount: 2.079470
Amount Units: ng/ml

Processing Integration Results



RT: 3.62
Area: 550949
Amount: 2.048363
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 778 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

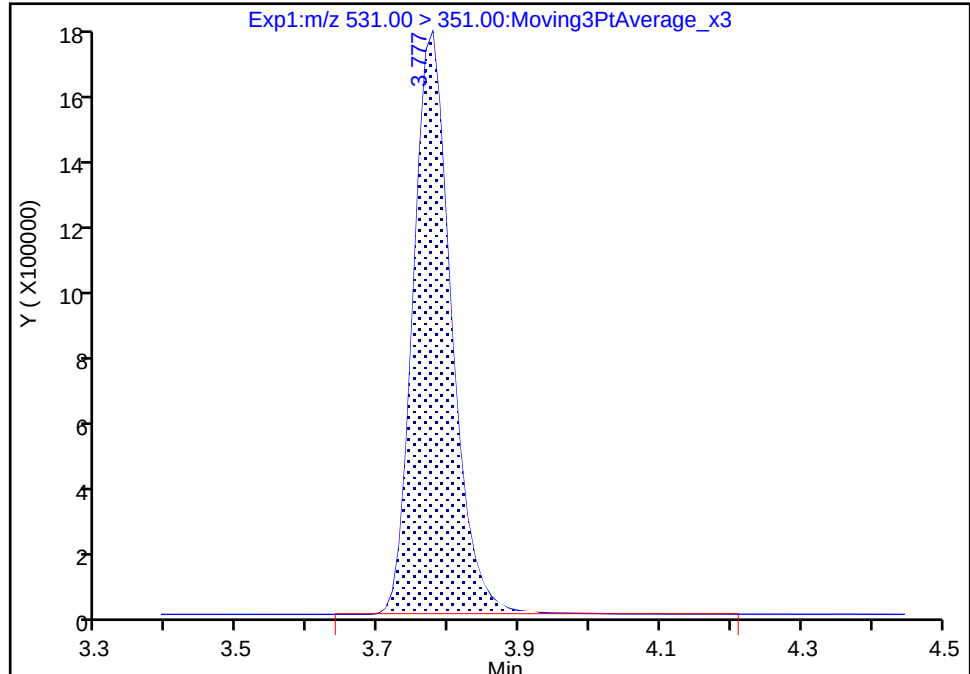
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

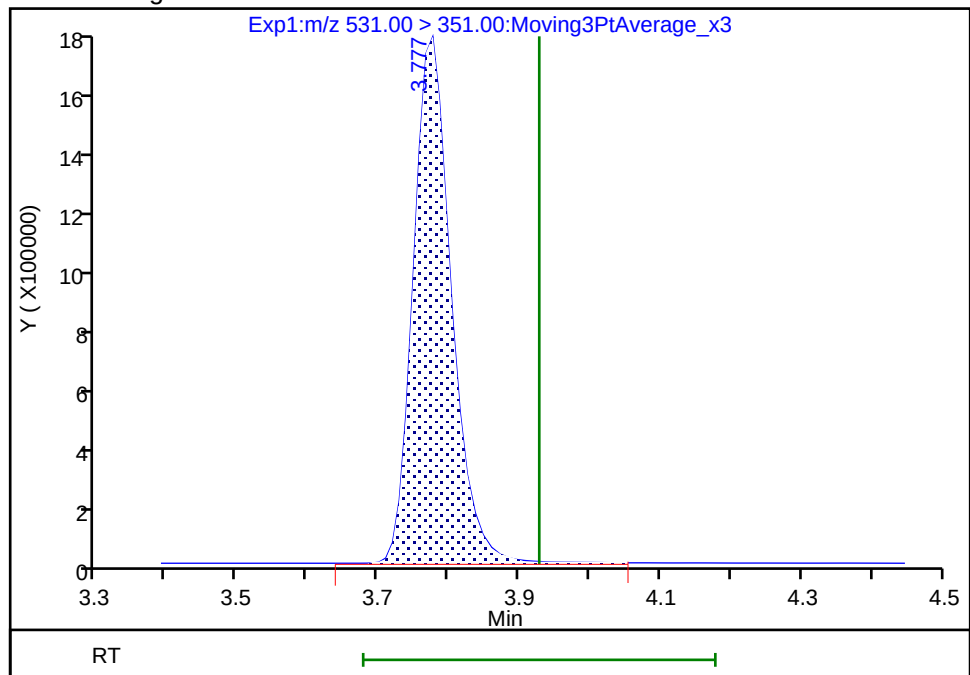
RT: 3.78
Area: 6552840
Amount: 2.367117
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 6547734
Amount: 2.365272
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

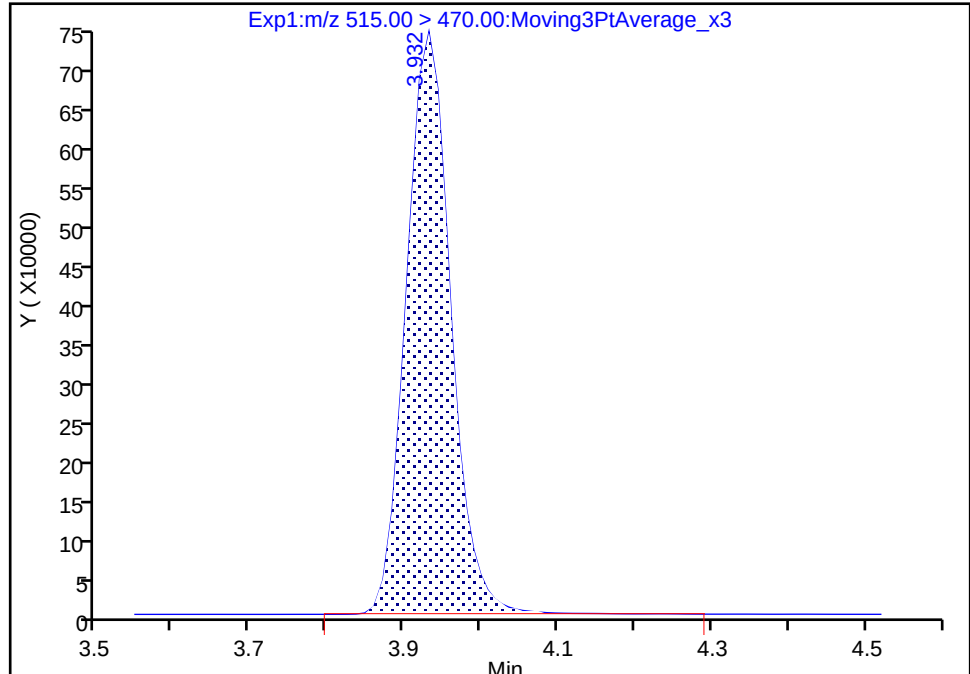
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

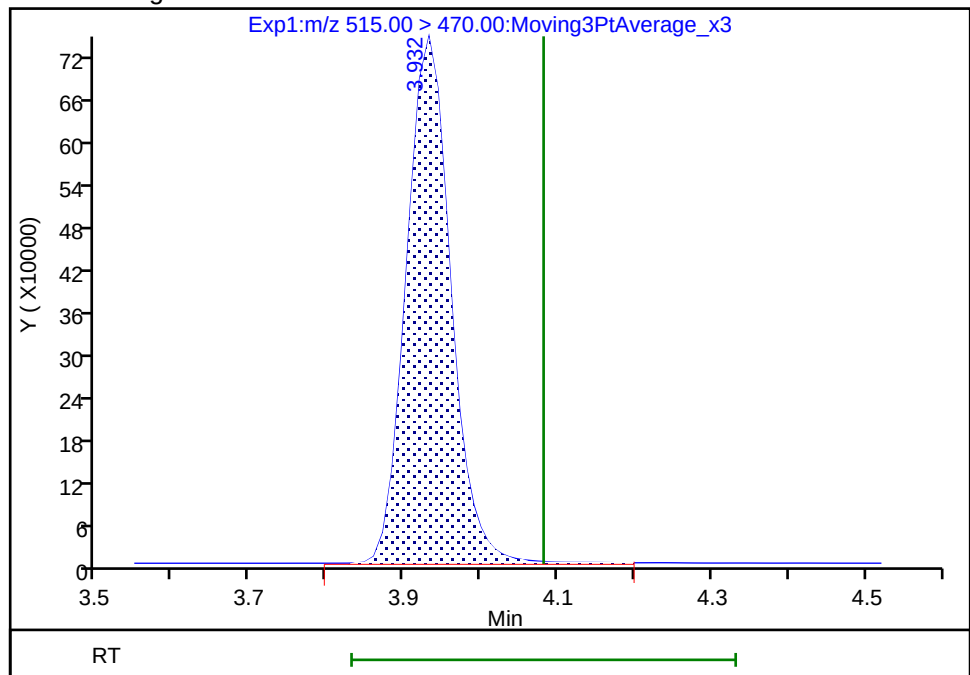
RT: 3.93
Area: 2976044
Amount: 1.285766
Amount Units: ng/ml

Processing Integration Results



RT: 3.93
Area: 2974246
Amount: 1.284989
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:01:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

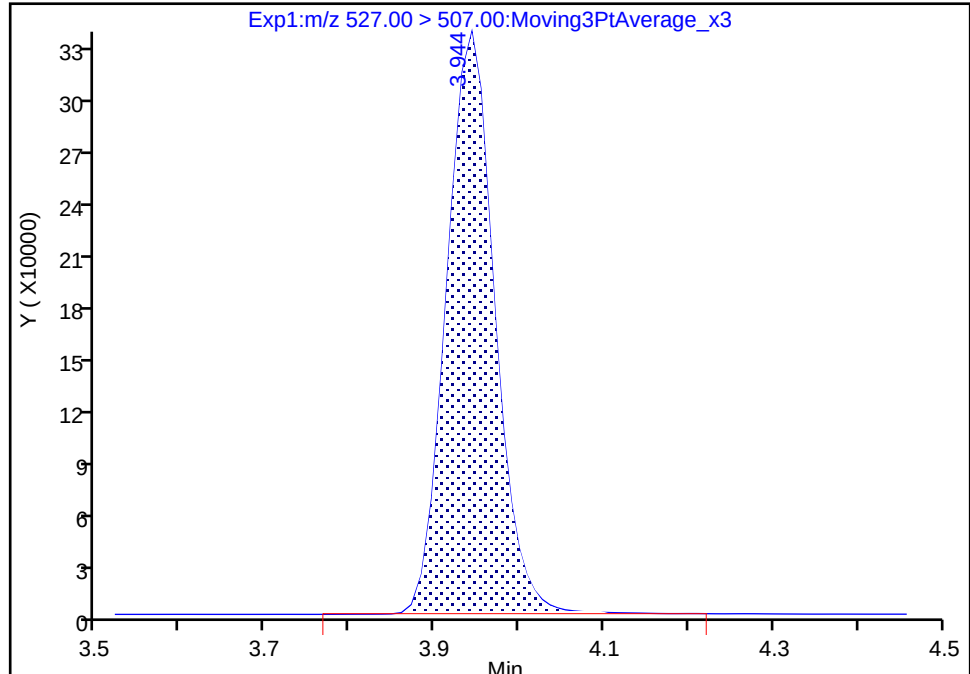
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

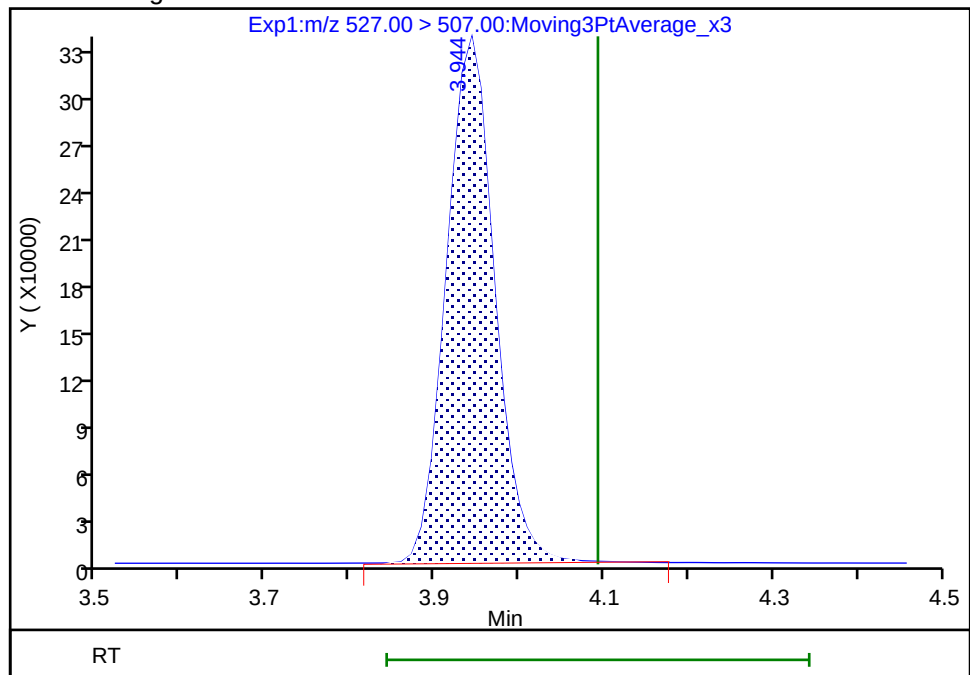
RT: 3.94
Area: 1340292
Amount: 2.539900
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 1338510
Amount: 2.536523
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

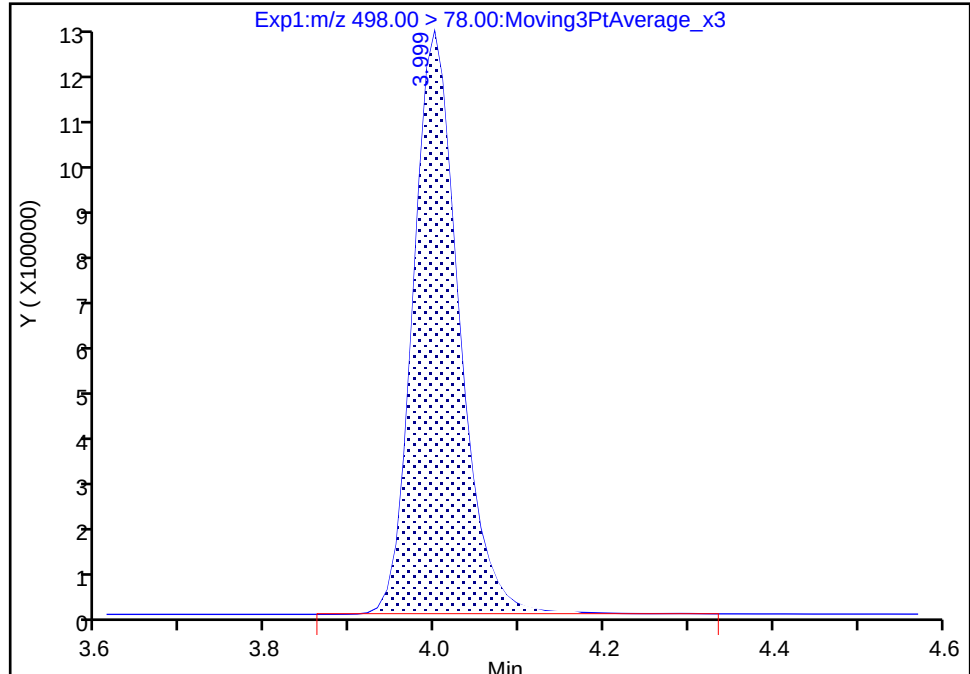
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

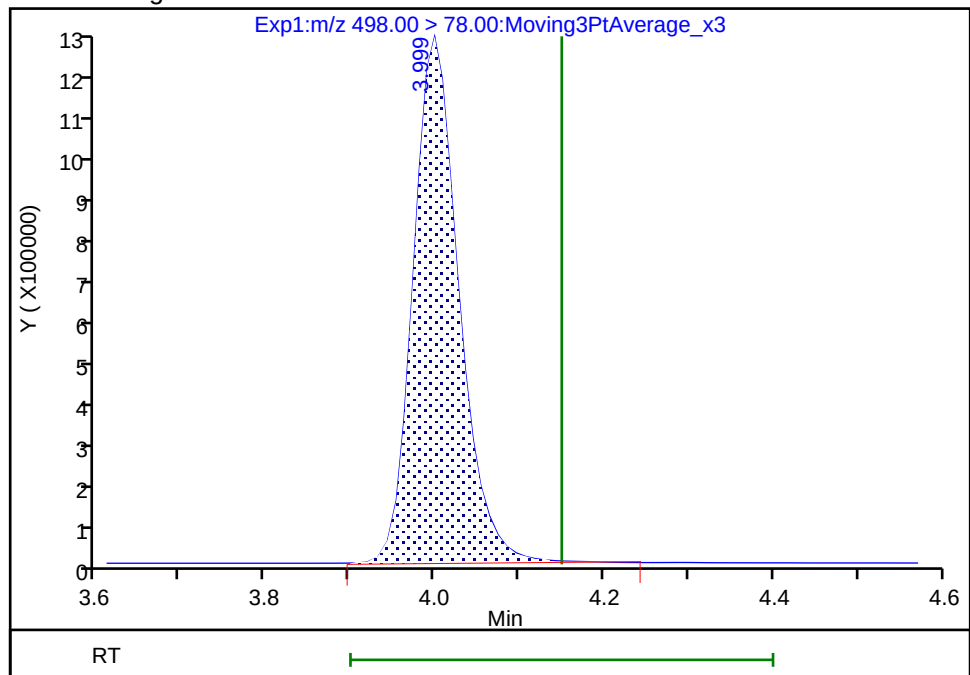
RT: 4.00
Area: 4557244
Amount: 2.338148
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 4544944
Amount: 2.331837
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

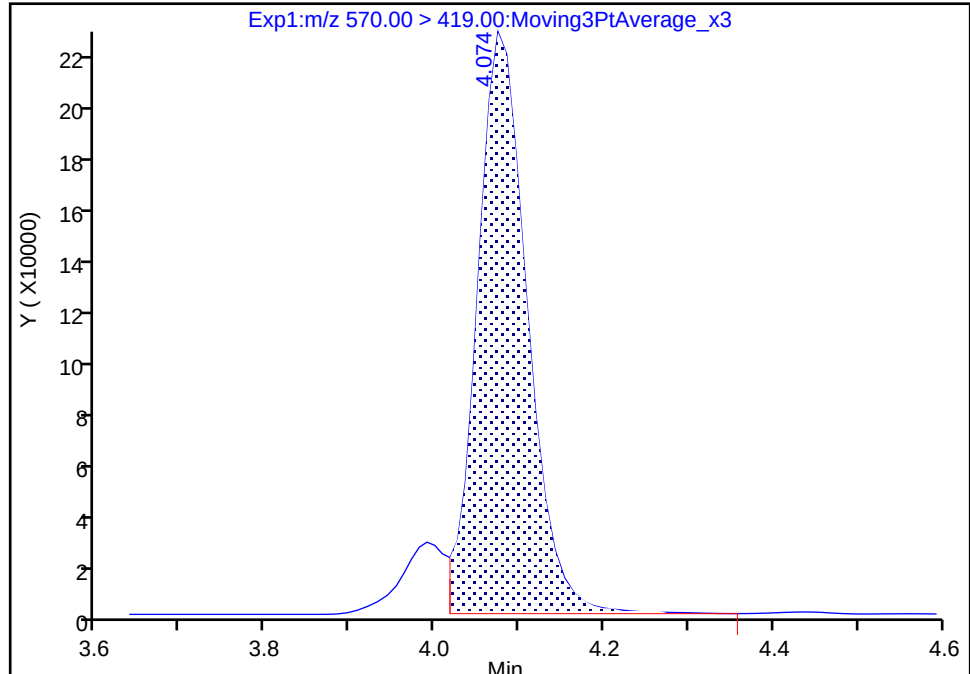
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

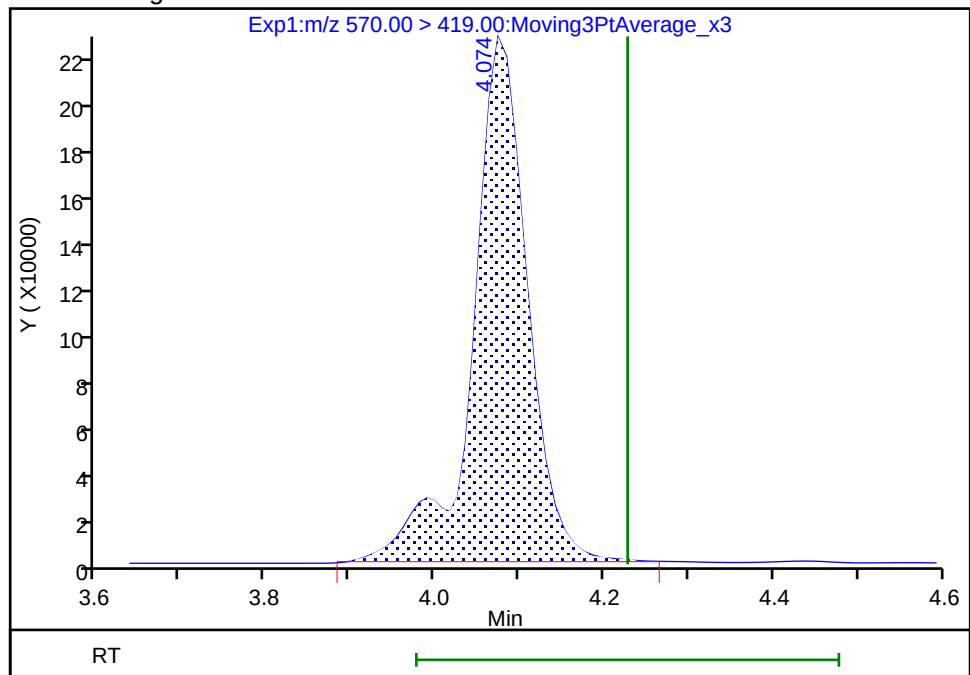
RT: 4.07
Area: 932590
Amount: 2.248017
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 1020536
Amount: 2.461108
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

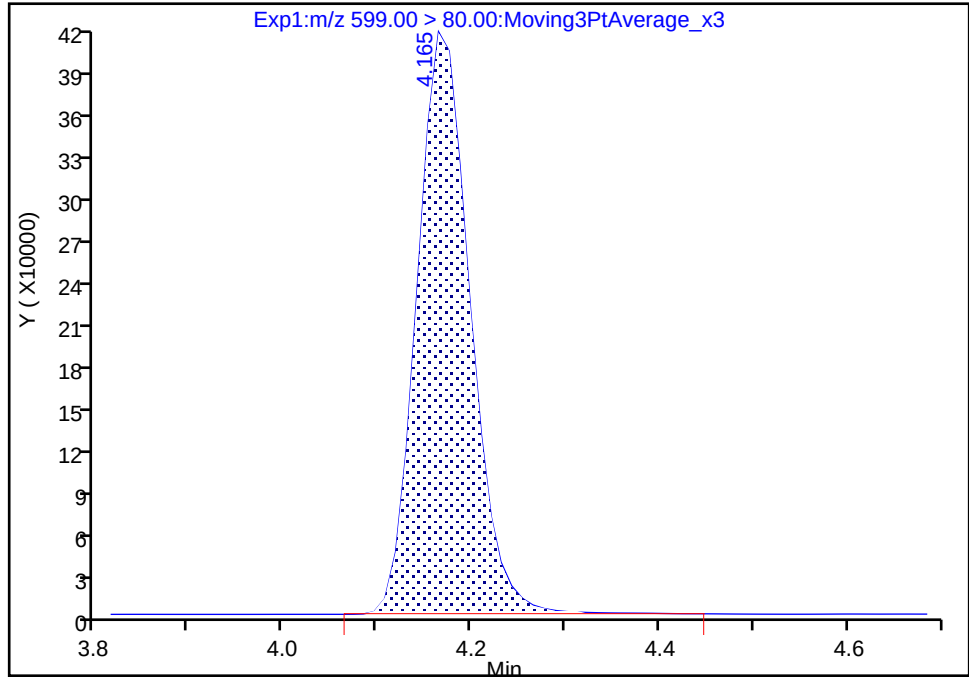
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

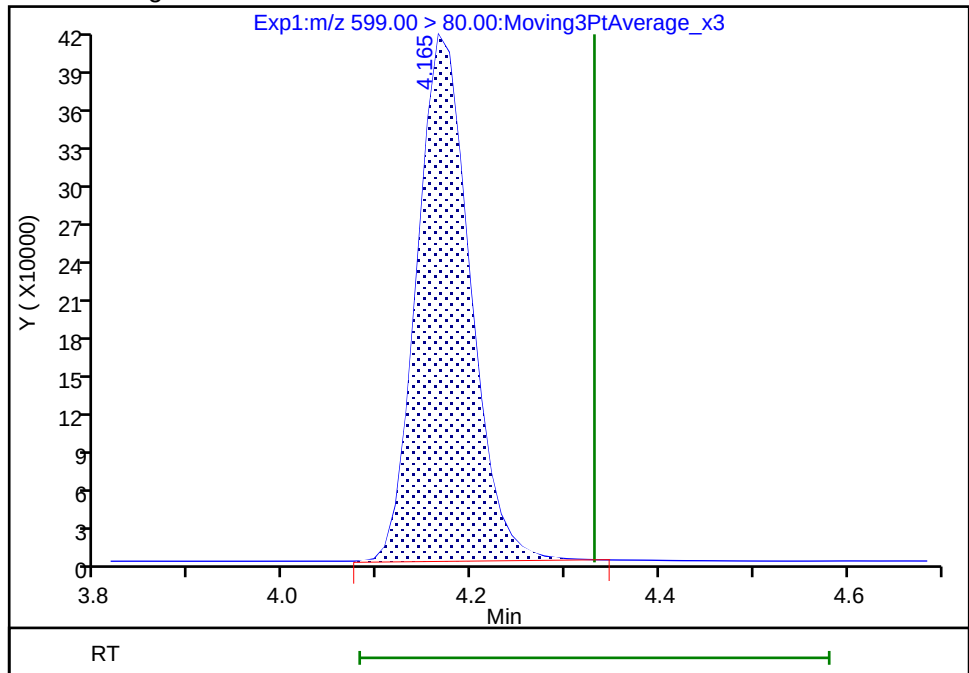
RT: 4.16
Area: 1632432
Amount: 2.270970
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 1624176
Amount: 2.259484
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d

Injection Date: 31-Dec-2022 00:20:10

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

15

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

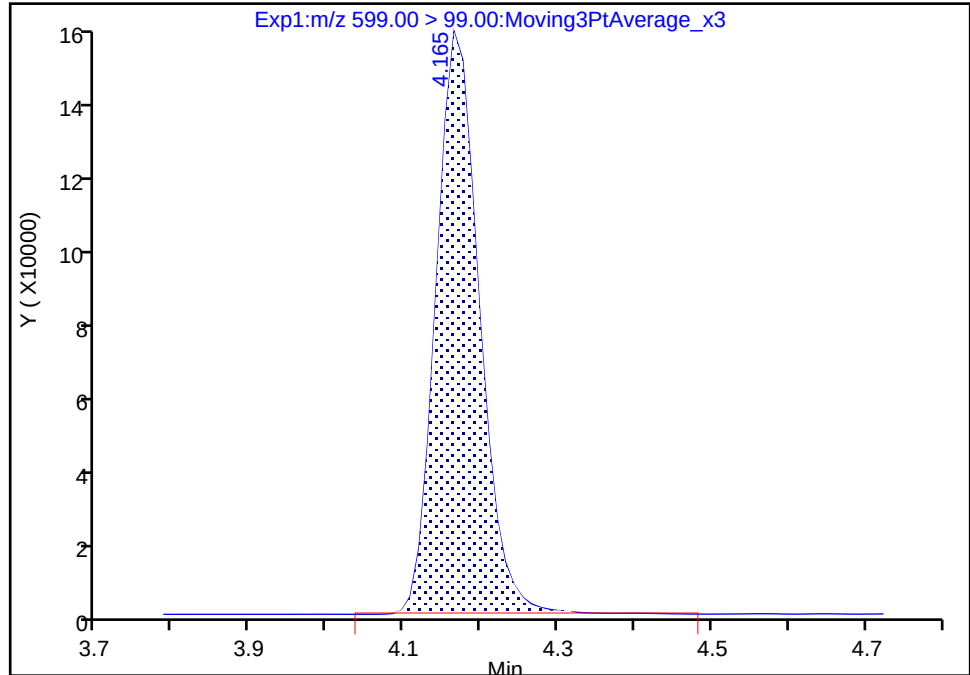
EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

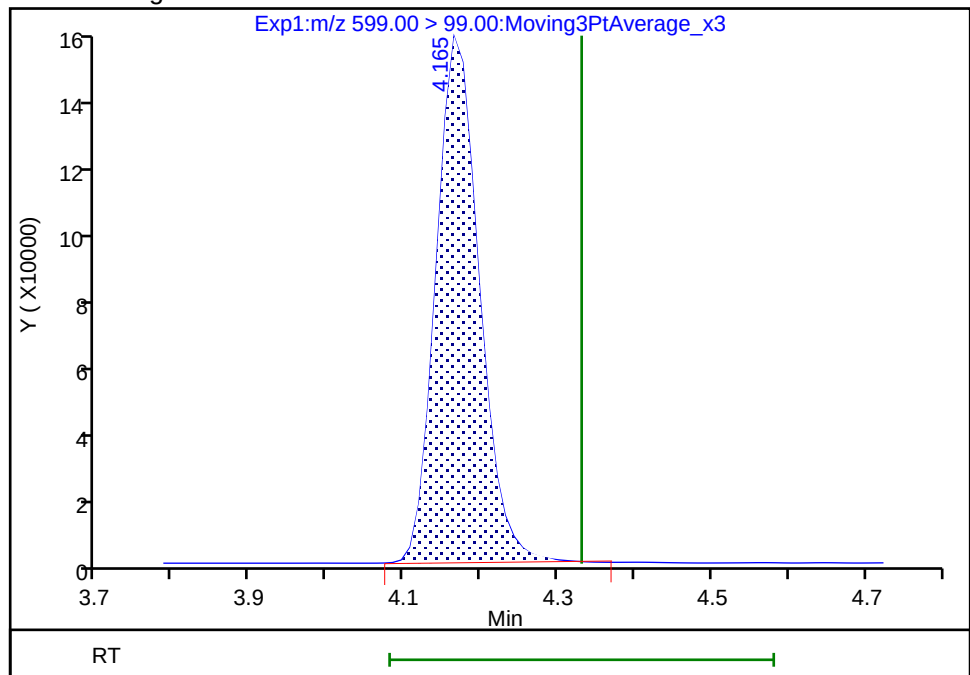
RT: 4.16
Area: 626767
Amount: 2.270970
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 622620
Amount: 2.259484
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:05:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

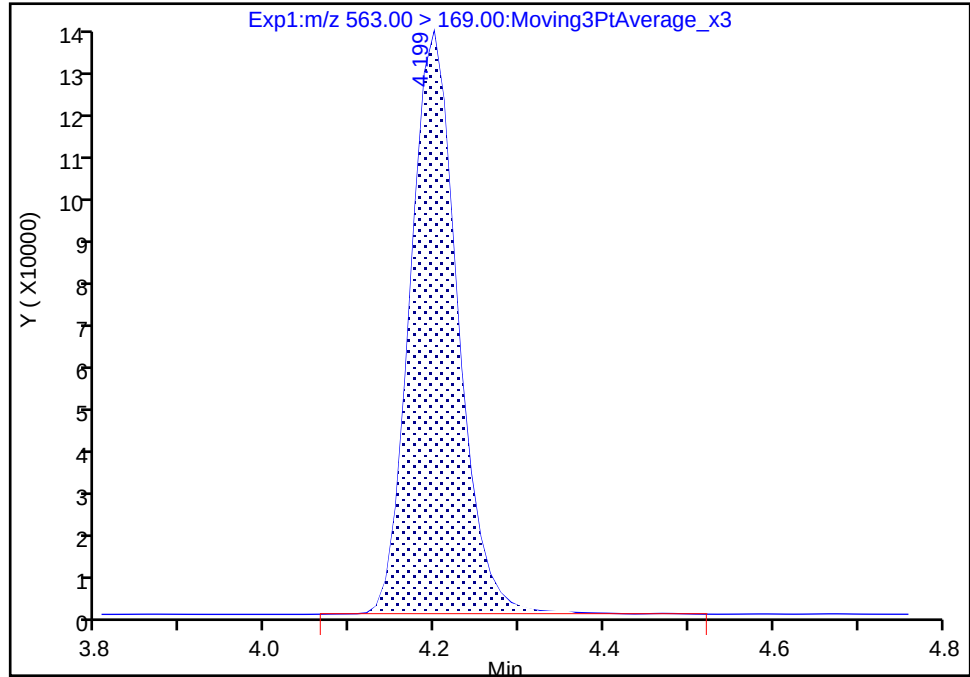
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

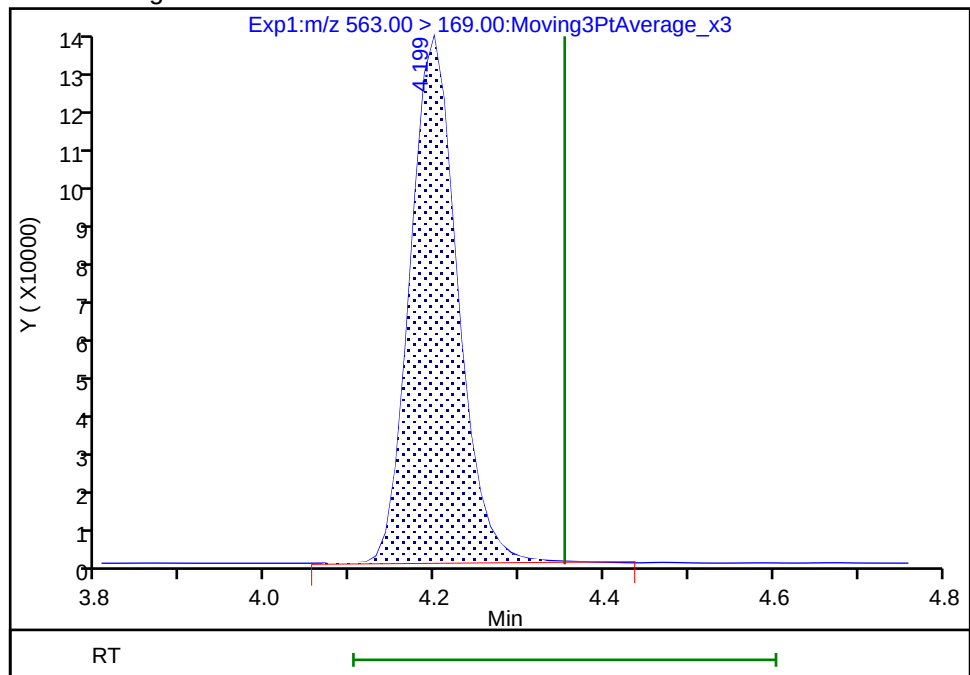
RT: 4.20
Area: 536954
Amount: 2.125913
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 536018
Amount: 2.125913
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

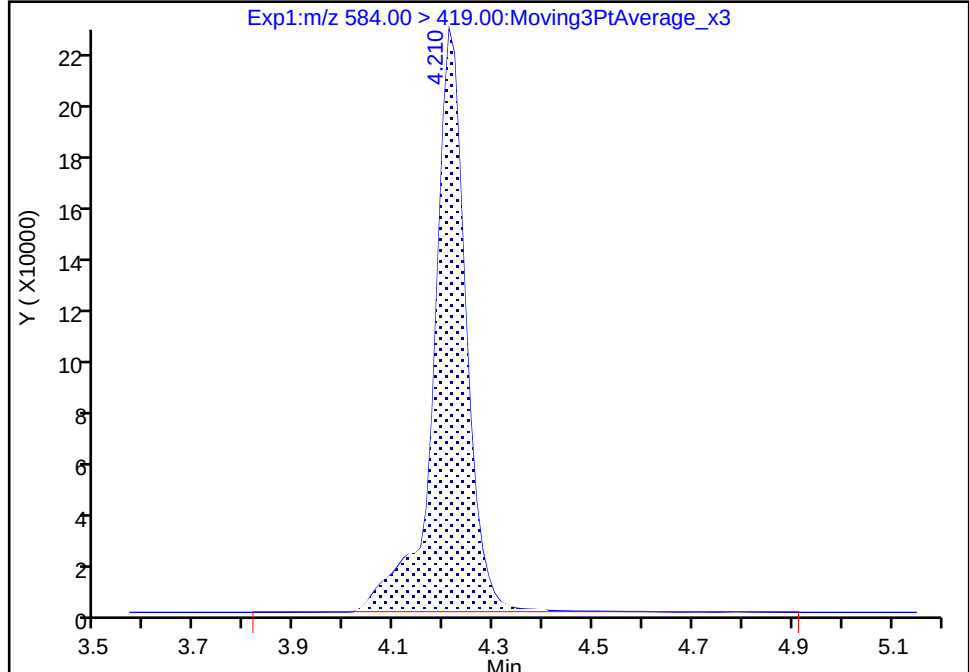
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

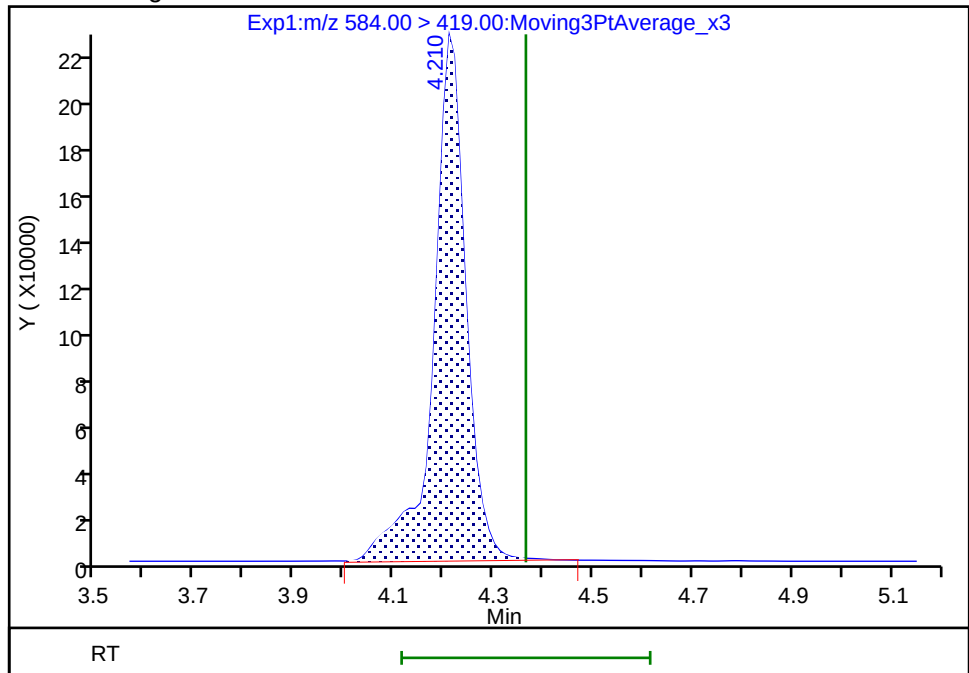
RT: 4.21
Area: 1018285
Amount: 2.316961
Amount Units: ng/ml

Processing Integration Results



RT: 4.21
Area: 1004427
Amount: 2.285429
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

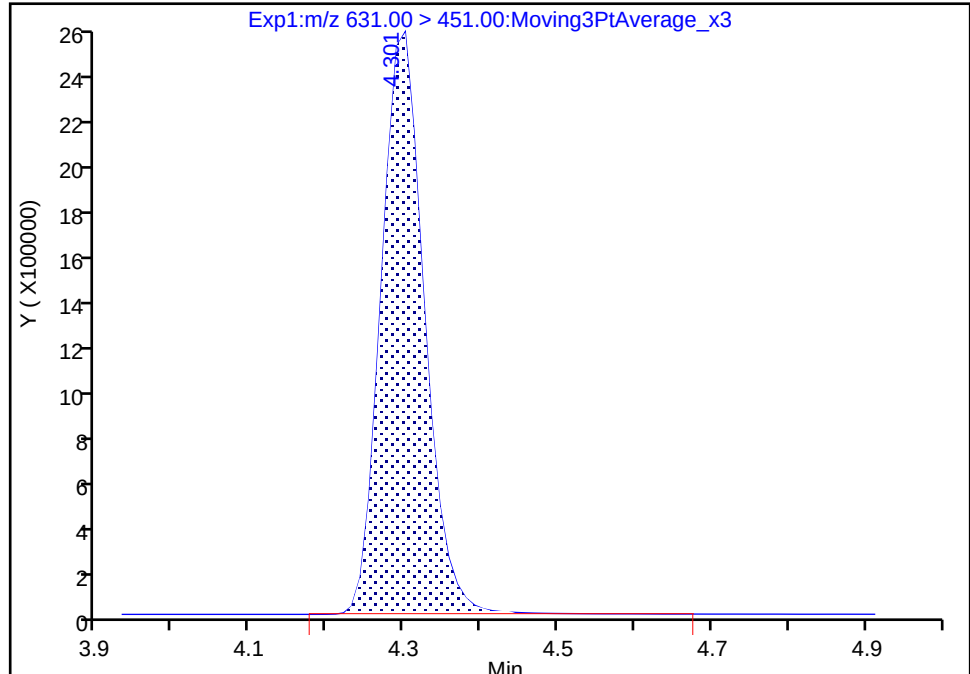
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

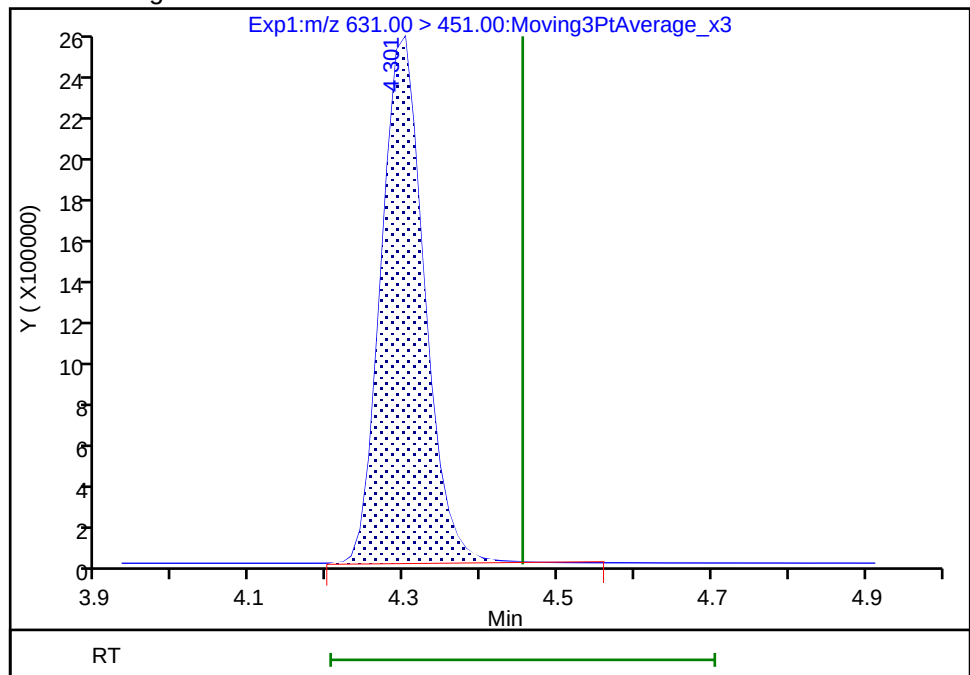
RT: 4.30
Area: 9779176
Amount: 2.291640
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 9756902
Amount: 2.286420
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

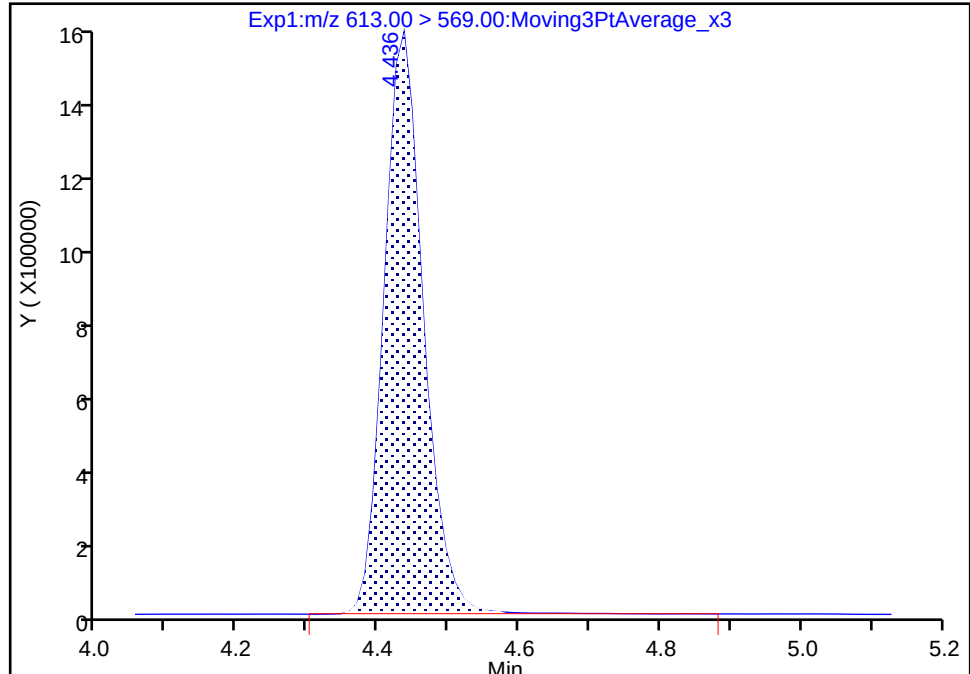
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

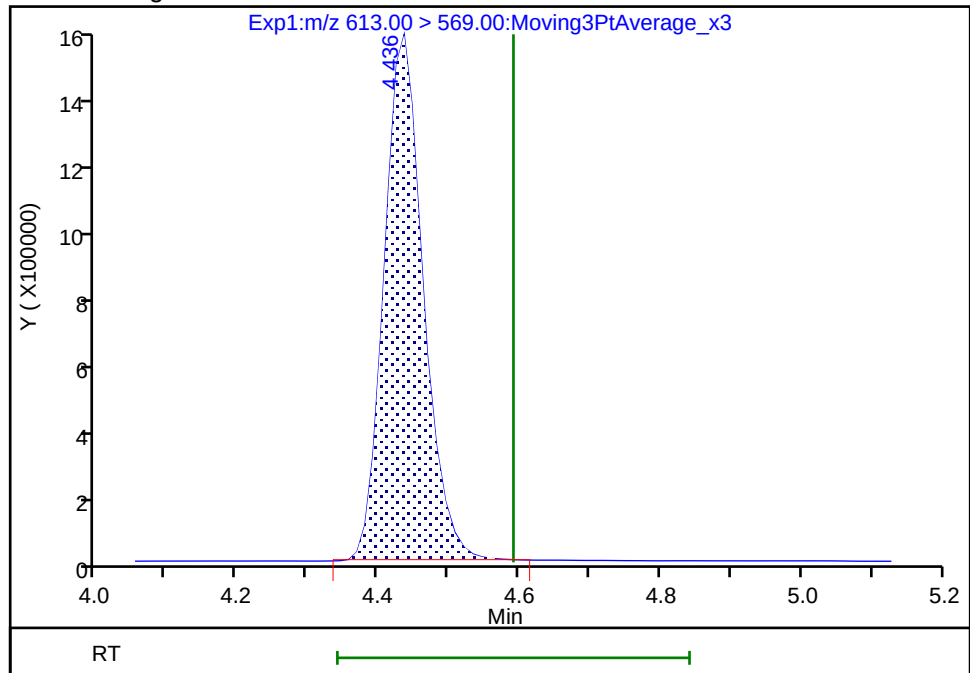
RT: 4.44
Area: 5893530
Amount: 2.349043
Amount Units: ng/ml

Processing Integration Results



RT: 4.44
Area: 5852619
Amount: 2.332737
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

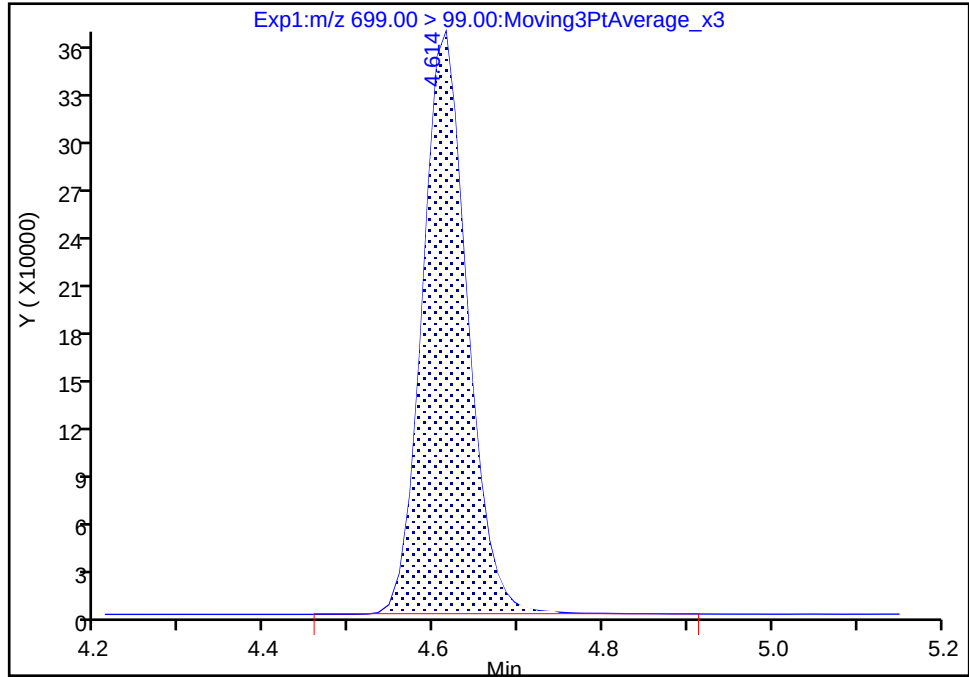
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

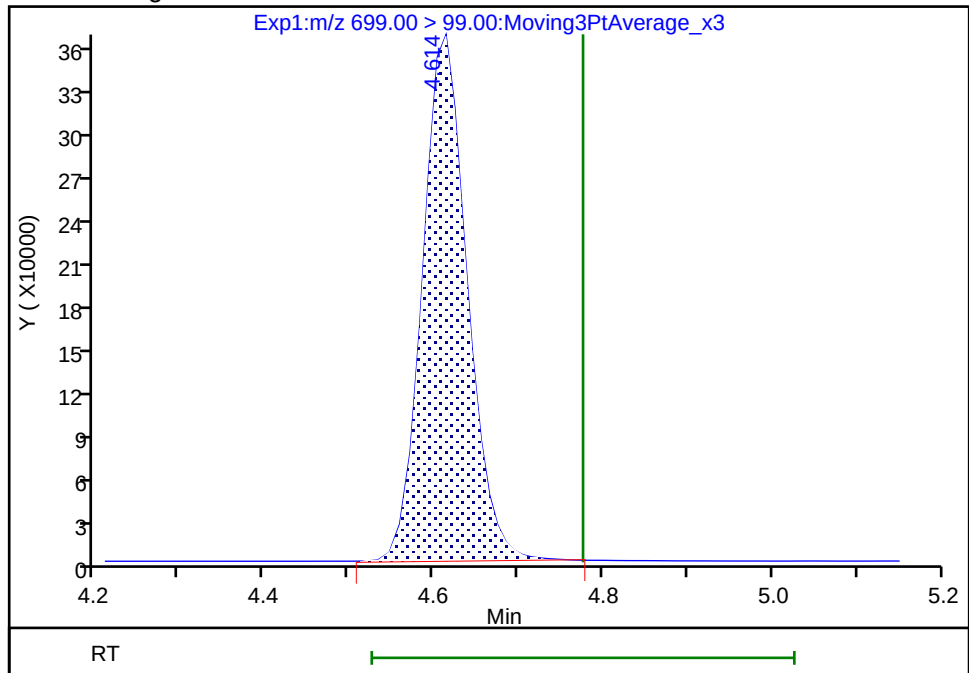
RT: 4.61
Area: 1353766
Amount: 2.261750
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 1347641
Amount: 2.261750
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

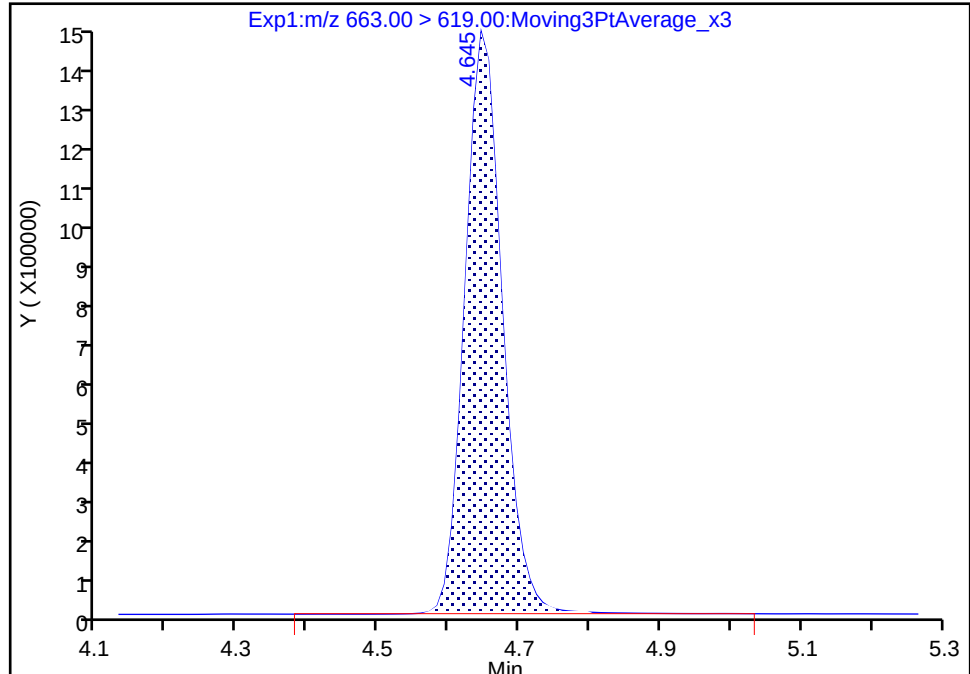
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

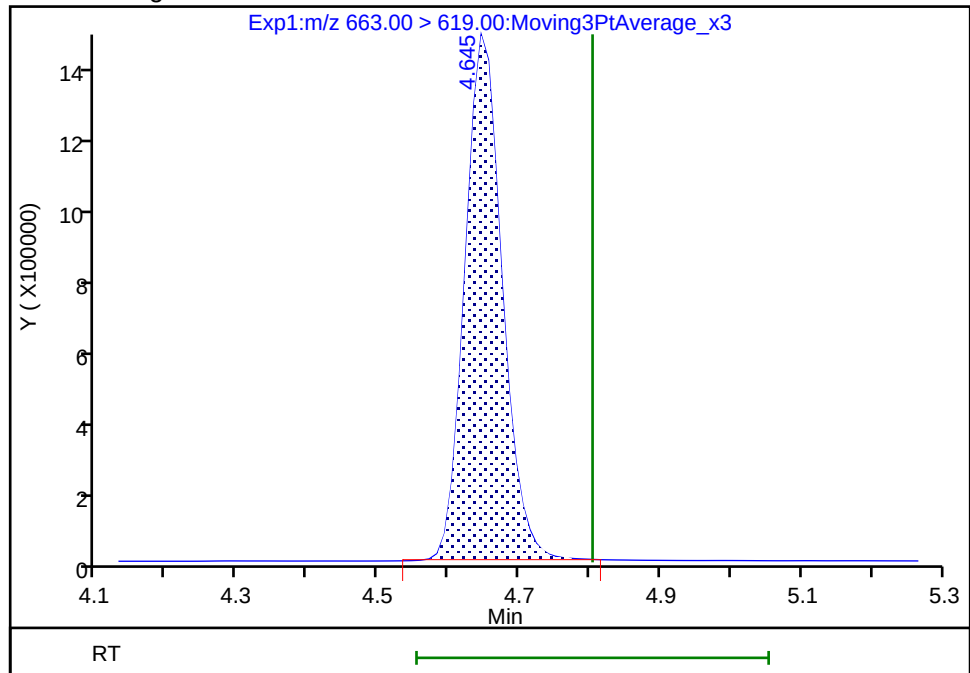
RT: 4.65
Area: 5361334
Amount: 2.234427
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 5314724
Amount: 2.215002
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

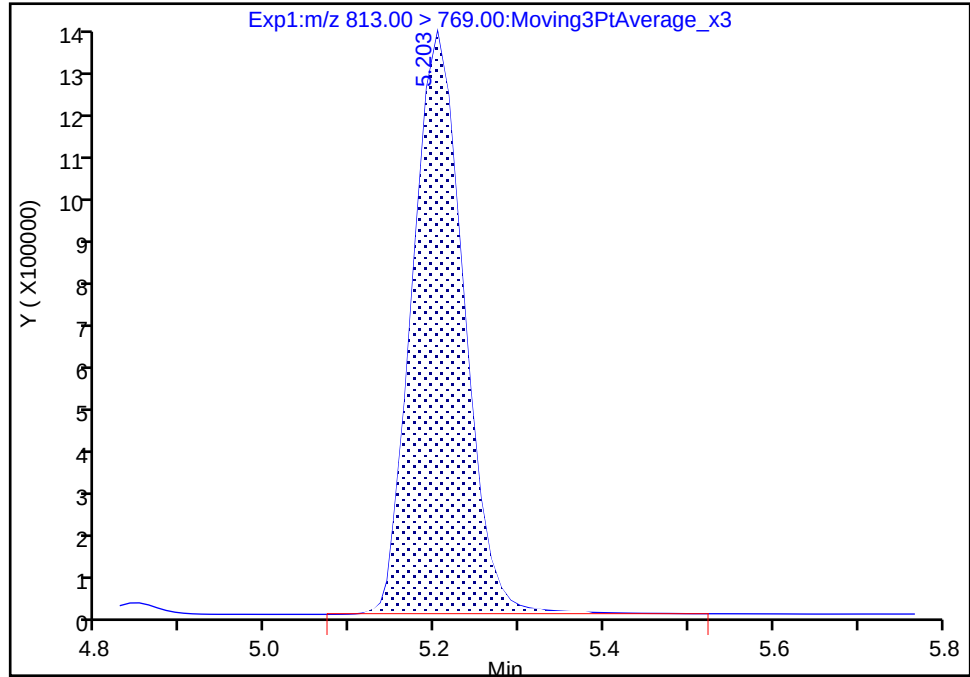
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

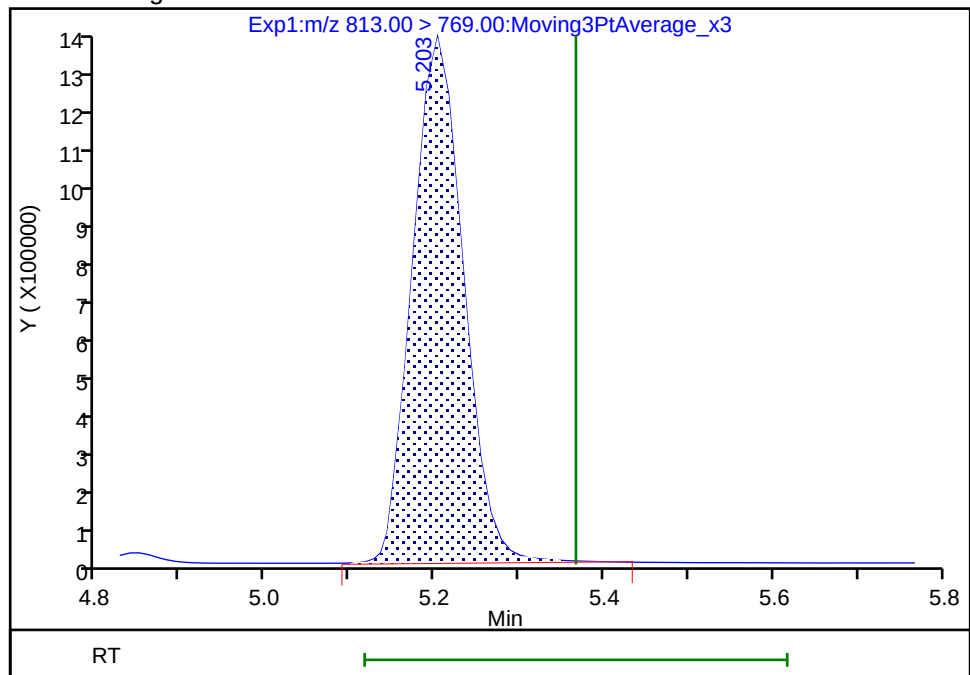
RT: 5.20
Area: 5776301
Amount: 2.346469
Amount Units: ng/ml

Processing Integration Results



RT: 5.20
Area: 5755412
Amount: 2.337921
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

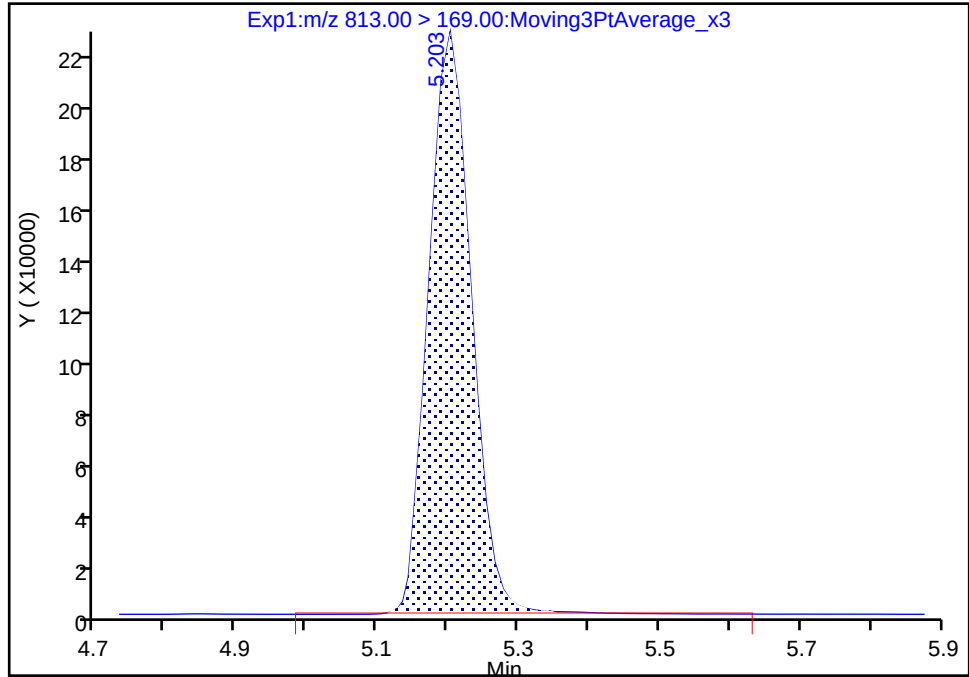
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

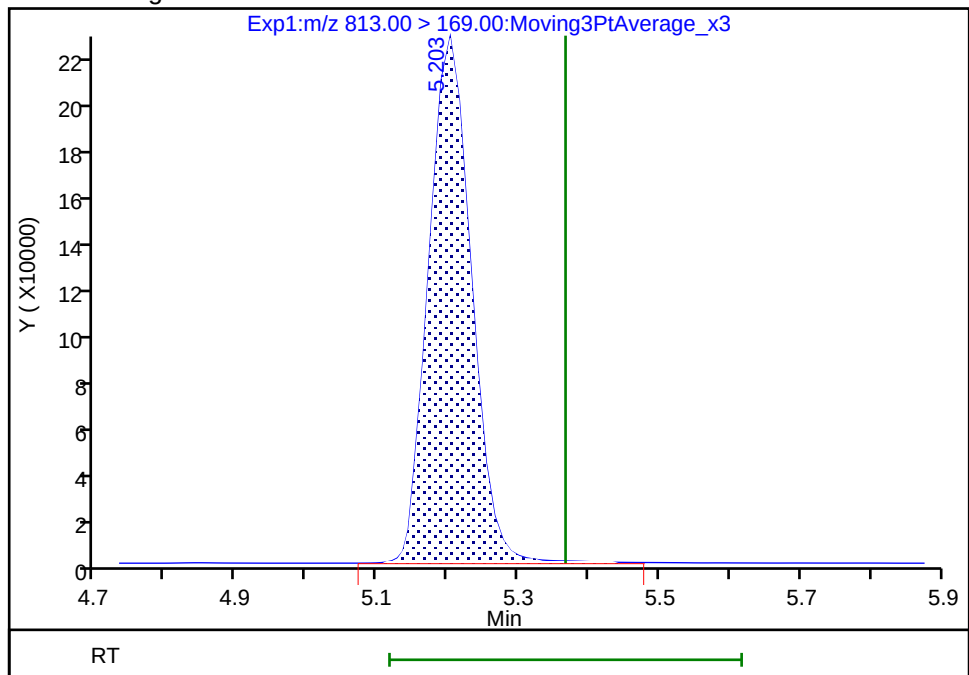
RT: 5.20
Area: 950095
Amount: 2.346469
Amount Units: ng/ml

Processing Integration Results



RT: 5.20
Area: 946462
Amount: 2.337921
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

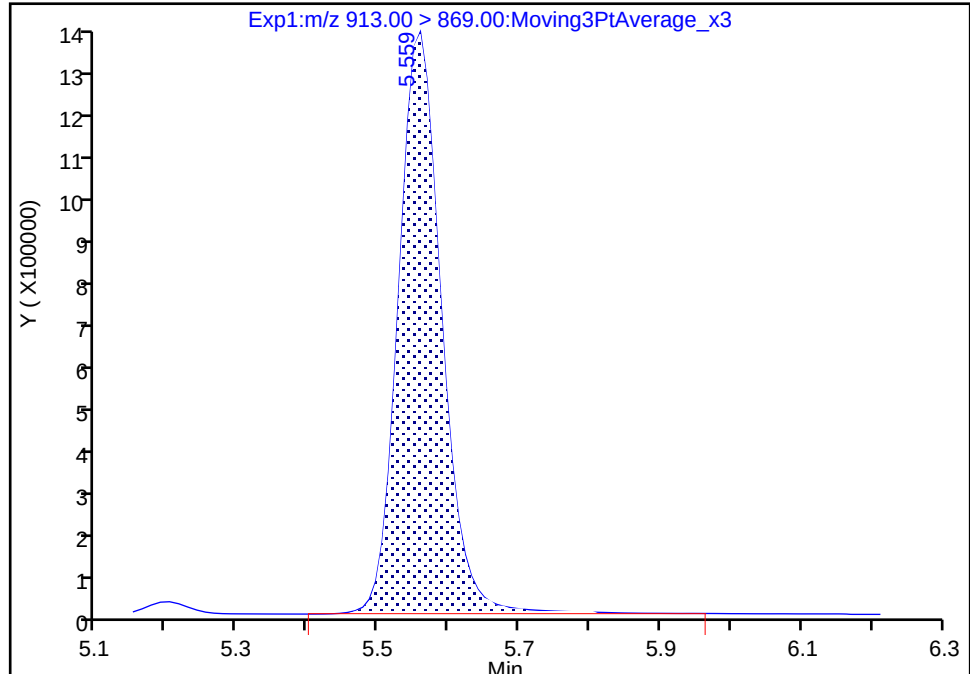
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C15.d
Injection Date: 31-Dec-2022 00:20:10 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

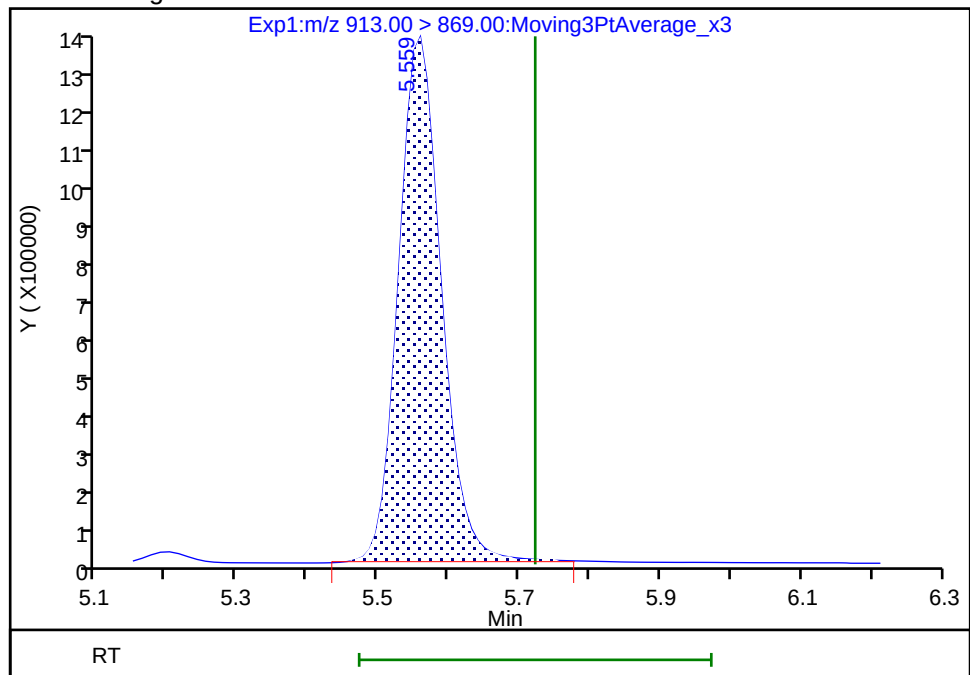
RT: 5.56
Area: 5747296
Amount: 2.625566
Amount Units: ng/ml

Processing Integration Results



RT: 5.56
Area: 5678547
Amount: 2.594159
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:06:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Lab Sample ID: CCV 200-187179/24 Calibration Date: 12/31/2022 01:33

Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10

Lab File ID: PA221230C24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.031	0.8996		0.872	1.00	-12.8	
Perfluoropentanoic acid (PFPeA)	AveID	1.090	0.9542		0.876	1.00	-12.4	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.144	1.029		0.795	0.884	-10.1	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	3.081	2.798		0.848	0.934	-9.2	
Perfluorohexanoic acid (PFHxA)	AveID	1.090	0.9408		0.863	1.00	-13.7	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.335	1.203		0.845	0.938	-9.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.056	0.9883		0.936	1.00	-6.4	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.129	1.069		0.862	0.910	-5.3	
Perfluoroheptanoic acid (PFHpA)	AveID	1.089	0.9683		0.889	1.00	-11.1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.507	5.319		0.910	0.942	-3.4	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.397	1.338		0.912	0.952	-4.2	
6:2 FTS	L1ID		2.126		0.942	0.948	-0.6	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.069	0.9566		0.895	1.00	-10.5	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.216	1.083		0.827	0.928	-10.9	
Perfluorononanoic acid (PFNA)	AveID	1.037	0.9556		0.921	1.00	-7.9	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.791	2.854		0.953	0.932	2.2	
Perfluorononanesulfonic acid (PFNS)	AveID	0.9179	0.8651		0.905	0.960	-5.8	
8:2 FTS	AveID	1.617	1.716		1.02	0.958	6.1	
Perfluorodecanoic acid (PFDA)	AveID	1.084	0.9574		0.883	1.00	-11.7	
Perfluorooctanesulfonamide (FOSA)	AveID	1.045	0.9488		0.908	1.00	-9.2	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	L1ID		0.8340		0.958	1.00	-4.2	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7248	0.6822		0.907	0.964	-5.9	
Perfluoroundecanoic acid (PFUnA)	AveID	1.008	0.8974		0.890	1.00	-11.0	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8953	0.8454		0.944	1.00	-5.6	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	4.303	4.187		0.917	0.942	-2.7	
Perfluorododecanoic acid (PFDoA)	AveID	1.059	0.9365		0.884	1.00	-11.6	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.9717	0.998		0.990	0.964	2.7	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3067	0.3029		0.956	0.968	-1.2	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Lab Sample ID: CCV 200-187179/24 Calibration Date: 12/31/2022 01:33
 Instrument ID: LC812 Calib Start Date: 11/18/2022 14:29
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 11/18/2022 15:10
 Lab File ID: PA221230C24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	1.013	0.8428		0.832	1.00	-16.8	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1369	0.1231		0.899	1.00	-10.1	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9045		0.967	1.00	-3.3	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8236	0.8070		0.980	1.00	-2.0	
13C4 PFBA	Ave	1.122	1.113		1.24	1.25	-0.8	
13C3 PFBS	Ave	0.9281	0.9285		1.16	1.16	0.0	
13C5 PFPeA	Ave	0.8543	0.8610		1.26	1.25	0.8	
M2-4:2 FTS	Ave	0.0820	0.0871		1.24	1.17	6.2	
13C2 PFHxA	Ave	0.8951	0.9116		1.27	1.25	1.8	
13C3 HFPO-DA	Ave	0.1580	0.1587		1.26	1.25	0.4	
18O2 PFHxS	Ave	0.6761	0.6609		1.16	1.18	-2.3	50.0
13C4 PFHpA	Ave	0.9206	0.9138		1.24	1.25	-0.7	50.0
13C4 PFOA	Ave	1.035	1.060		1.28	1.25	2.4	50.0
M2-6:2 FTS	Ave	0.1134	0.1356		1.42	1.19	19.6	
13C4 PFOS	Ave	0.4588	0.4343		1.13	1.20	-5.3	50.0
13C5 PFNA	Ave	1.006	1.001		1.24	1.25	-0.5	50.0
13C2 PFDA	Ave	1.025	1.074		1.31	1.25	4.8	
M2-8:2 FTS	Ave	0.1387	0.1373		1.19	1.20	-1.0	
13C8 FOSA	Ave	0.8403	0.8249		1.23	1.25	-1.8	
d3-NMeFOSAA	Ave	0.2087	0.2109		1.26	1.25	1.1	
13C2 PFUnA	Ave	0.9385	1.029		1.37	1.25	9.6	
d5-NEtFOSAA	Ave	0.2055	0.2080		1.27	1.25	1.2	
13C2 PFDoA	Ave	0.9562	1.033		1.35	1.25	8.0	
13C2 PFTeDA	Ave	0.8270	0.9029		1.37	1.25	9.2	
13C2 PFHxDA	Ave	1.022	1.142		1.40	1.25	11.7	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-Dec-2022 01:33:45 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053867-024 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:49:19 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 12:11:02

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	2.120	2.076	0.044	0.640	3228293	1.24		99.2	10395	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.129	2.076	0.053	1.004	2323261	0.8724		87.2	149	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.387	0.004	0.722	2496942	1.26		101	1686	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.391	2.387	0.004	1.000	1905987	0.8755		87.6	37.5	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.391	2.400	-0.009	0.722	2504097	1.16		100	121902	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.404	2.400	0.004	1.006	1959597	0.7952	Target=2.09	89.9	1286	M
298.90 > 99.00	2.404	2.400	0.004	1.006	956333		2.05(1.04-3.13)		286	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.648	2.689	-0.041	1.000	527879	0.8483		90.8	1356	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.648	2.689	-0.041	0.799	235822	1.24		106	172	
D 7 13C2 PFHxA										
315.00 > 270.00	2.672	2.725	-0.053	0.807	2643564	1.27		102	5565	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.672	2.725	-0.053	1.000	1989712	0.8635	Target=14.25	86.3	188	M
313.00 > 119.00	2.672	2.725	-0.053	1.000	147882		13.45(7.12-21.37)		160	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.672	2.737	-0.065	0.896	1729601	0.8447	Target=3.04	90.1	867	
349.00 > 99.00	2.672	2.737	-0.065	0.896	594276		2.91(1.52-4.56)		493	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.769	2.835	-0.066	1.000	363849	0.9360		93.6	2018	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.769	2.835	-0.066	0.836	460184	1.26		100	2112	
D 11 18O2 PFHxS										
403.00 > 84.00	2.983	3.088	-0.105	0.900	1813028	1.16		97.7	3080	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.983	3.088	-0.105	1.000	1491000	0.8616	Target=3.66	94.7	1300	M
399.00 > 99.00	2.983	3.088	-0.105	1.000	432285		3.45(1.83-5.49)		316	M
D 9 13C4 PFHpA										
367.00 > 322.00	2.994	3.099	-0.105	0.904	2650091	1.24		99.3	4453	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.994	3.099	-0.105	1.000	2052886	0.8894	Target=3.97	88.9	237	M
363.00 > 169.00	2.994	3.099	-0.105	1.000	524957		3.91(1.98-5.95)		650	
77 DONA										
377.00 > 251.00	3.028	3.132	-0.104	0.838	5047955	0.9098	Target=3.16	96.6	3121	M
377.00 > 85.00	3.028	3.132	-0.104	0.838	1658892		3.04(1.58-4.73)		1486	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.313	3.439	-0.126	1.000	373610	1.42		120	697	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.313	3.439	-0.126	1.000	634085	0.9422		99.4	749	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.303	3.439	-0.136	0.914	1283481	0.9121	Target=5.14	95.8	1689	
449.00 > 99.00	3.303	3.439	-0.136	0.914	258350		4.97(2.57-7.72)		510	
D 14 13C4 PFOA										
417.00 > 372.00	3.313	3.448	-0.135	1.000	3075042	1.28		102	2857	
* 62 13C2 PFOA										
415.00 > 370.00	3.313	3.448	-0.135		2900022	1.25			3264	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.313	3.448	-0.135	1.000	2353322	0.8948	Target=2.79	89.5	147	M
413.00 > 169.00	3.313	3.448	-0.135	1.000	850524		2.77(1.40-4.19)		886	M
D 18 13C4 PFOS										
503.00 > 80.00	3.615	3.764	-0.149	1.091	1203947	1.13		94.7	2121	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.615	3.764	-0.149	1.000	1012728	0.8266	Target=5.11	89.1	619	M
499.00 > 99.00	3.615	3.764	-0.149	1.000	323403		3.13(2.55-7.66)		130	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.633	3.783	-0.150	1.000	2219239	0.9212	Target=8.55	92.1	396	
463.00 > 169.00	3.633	3.783	-0.150	1.000	268187		8.27(4.28-12.83)		1180	M
D 19 13C5 PFNA										
468.00 > 423.00	3.633	3.783	-0.150	1.096	2902914	1.24		99.5	2826	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.779	3.928	-0.149	1.046	2679781	0.9530		102	2671	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.900	4.050	-0.150	1.079	836722	0.9048	Target=2.53	94.2	1948	
549.00 > 99.00	3.900	4.050	-0.150	1.079	331498		2.52(1.27-3.80)		1028	
D 23 13C2 PFDA										
515.00 > 470.00	3.937	4.081	-0.144	1.188	3114912	1.31		105	4343	

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	3.937	4.081	-0.144	1.000	2385751	0.8828	Target=10.26	88.3	655	
513.00 > 169.00	3.937	4.081	-0.144	1.000	232312		10.27(5.13-15.38)		580	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.937	4.093	-0.156	1.188	381446	1.19		99.0	861	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	3.937	4.093	-0.156	1.000	523636	1.02		106	2860	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	3.995	4.150	-0.155	1.000	1815951	0.9082		90.8	1376	
D 21 13C8 FOSA										
506.00 > 78.00	3.995	4.150	-0.155	1.206	2392361	1.23		98.2	1916	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.070	4.228	-0.158	1.228	611622	1.26		101	1336	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.080	4.228	-0.148	1.003	408086	0.9579		95.8	626	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.172	4.331	-0.159	1.154	662541	0.9073	Target=2.51	94.1	2446	
599.00 > 99.00	4.172	4.331	-0.159	1.154	246038		2.69(1.25-3.76)		1122	
D 30 13C2 PFUnA										
565.00 > 520.00	4.195	4.353	-0.158	1.266	2982806	1.37		110	4522	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.195	4.353	-0.158	1.000	2141432	0.8905	Target=9.88	89.0	711	
563.00 > 169.00	4.195	4.353	-0.158	1.000	203457		10.53(4.94-14.82)		1523	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.216	4.365	-0.149	1.002	408043	0.9444		94.4	1062	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.206	4.365	-0.159	1.270	603300	1.27		101	920	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.296	4.454	-0.158	1.188	3973663	0.9167		97.3	3143	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.431	4.591	-0.160	1.000	2244489	0.8840	Target=7.77	88.4	753	
613.00 > 169.00	4.431	4.591	-0.160	1.000	294023		7.63(3.89-11.66)		1986	
D 36 13C2 PFDaA										
615.00 > 570.00	4.431	4.591	-0.160	1.337	2995692	1.35		108	3925	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.453	4.612	-0.159	1.131	306431	0.99		103	1793	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.611	4.776	-0.165	1.276	295422	0.9562	Target=0.50	98.8	1553	M
699.00 > 99.00	4.611	4.776	-0.165	1.276	566770		0.52(0.25-0.76)		2379	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.653	4.804	-0.151	1.050	2019721	0.8318	Target=5.21	83.2	536	M
663.00 > 169.00	4.653	4.804	-0.151	1.050	375156		5.38(2.60-7.81)		1715	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.847	5.012	-0.165	1.000	257788	0.8989	Target=0.89	89.9	1847	M
713.00 > 219.00	4.847	5.012	-0.165	1.000	266375		0.97(0.44-1.33)		1156	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.847	5.012	-0.165	1.463	2618482	1.36		109	3780	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.215	5.367	-0.152	1.000	2396569	0.9666	Target=5.65	96.7	195	M
813.00 > 169.00	5.215	5.367	-0.152	1.000	376302		6.37(2.82-8.47)		1567	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.215	5.367	-0.152	1.574	3312074	1.40		112	4392	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.558	5.722	-0.164	1.066	2138227	0.9798	Target=6.24	98.0	200	M
913.00 > 169.00	5.558	5.722	-0.164	1.066	311494		6.86(3.12-9.36)		1254	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00037

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d

Injection Date: 31-Dec-2022 01:33:45

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 24

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

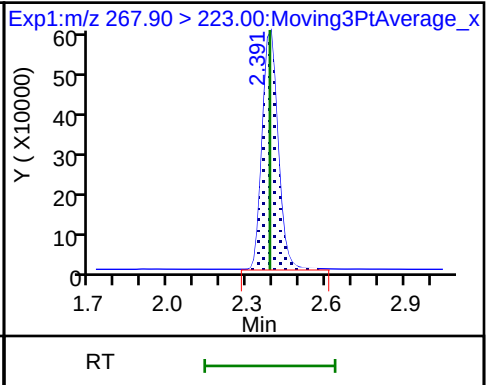
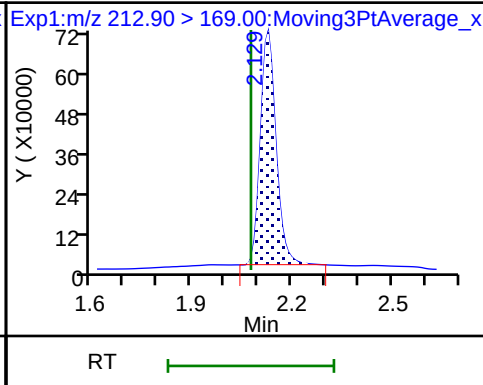
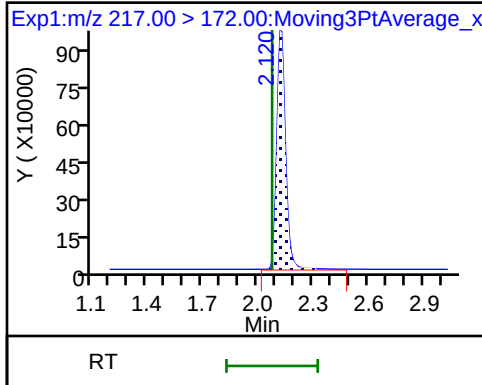
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

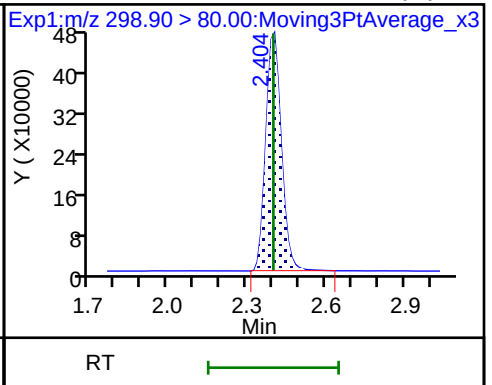
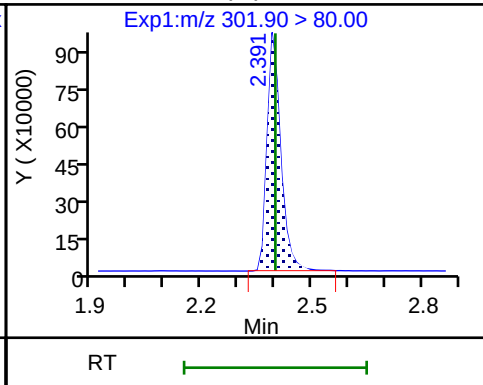
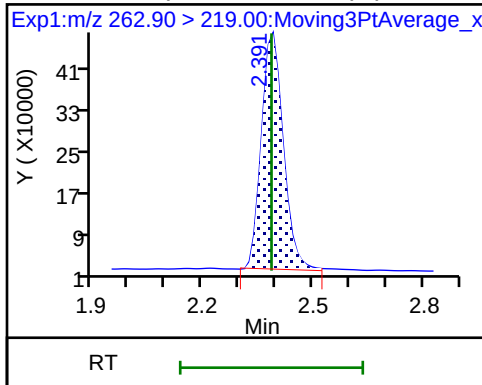
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

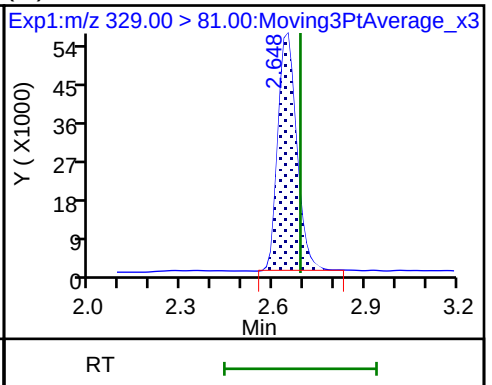
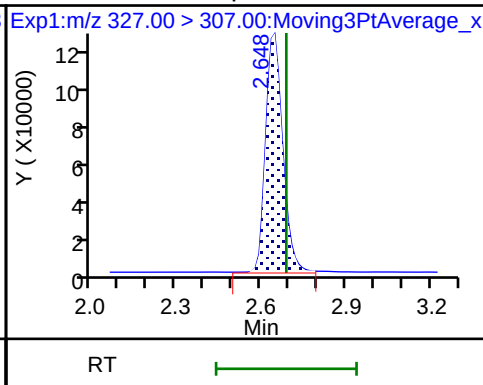
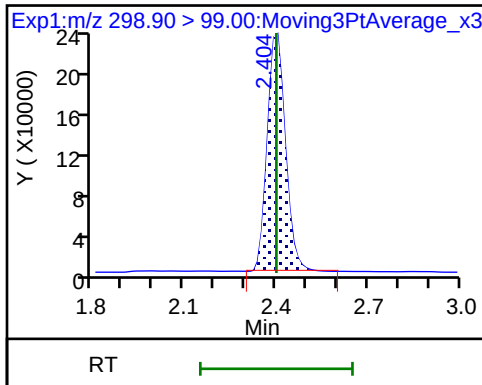
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

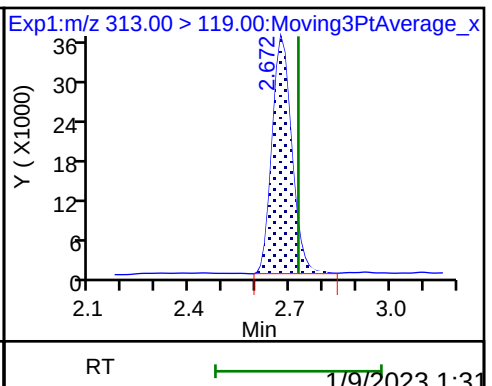
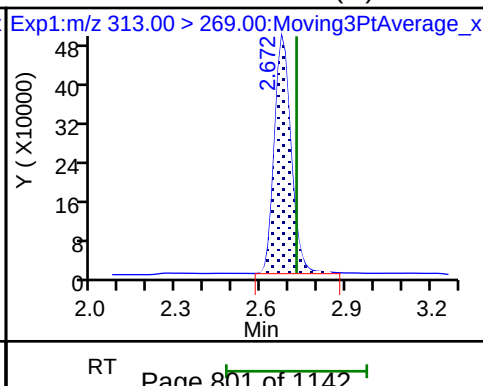
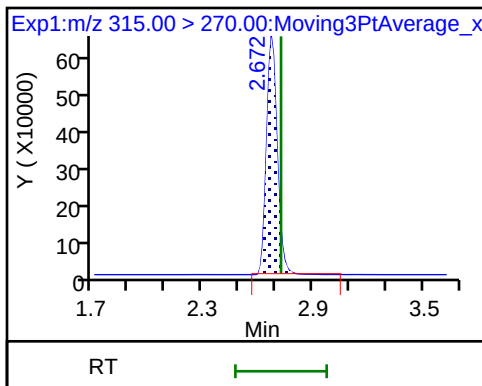
D 50 M2-4:2 FTS

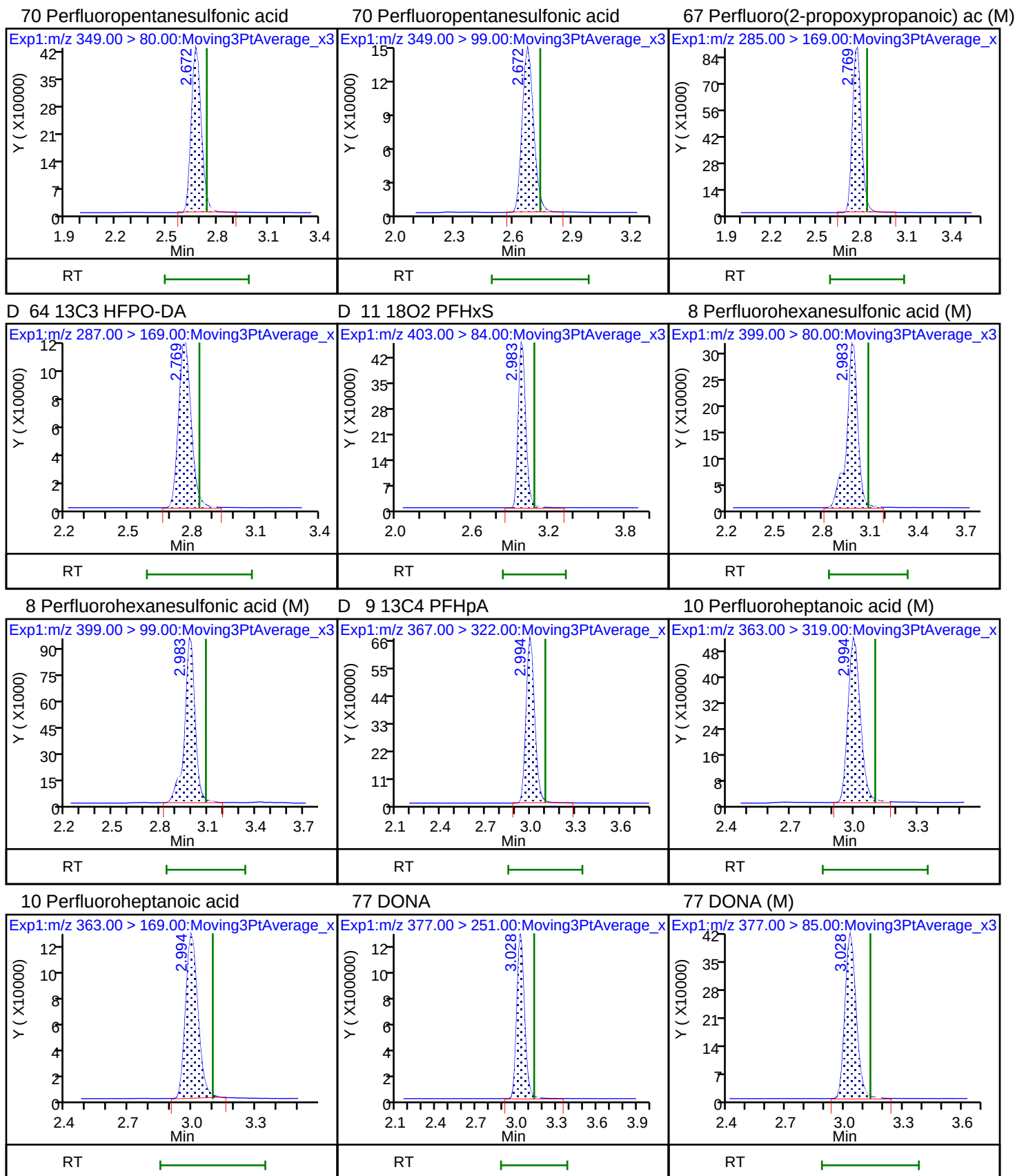


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

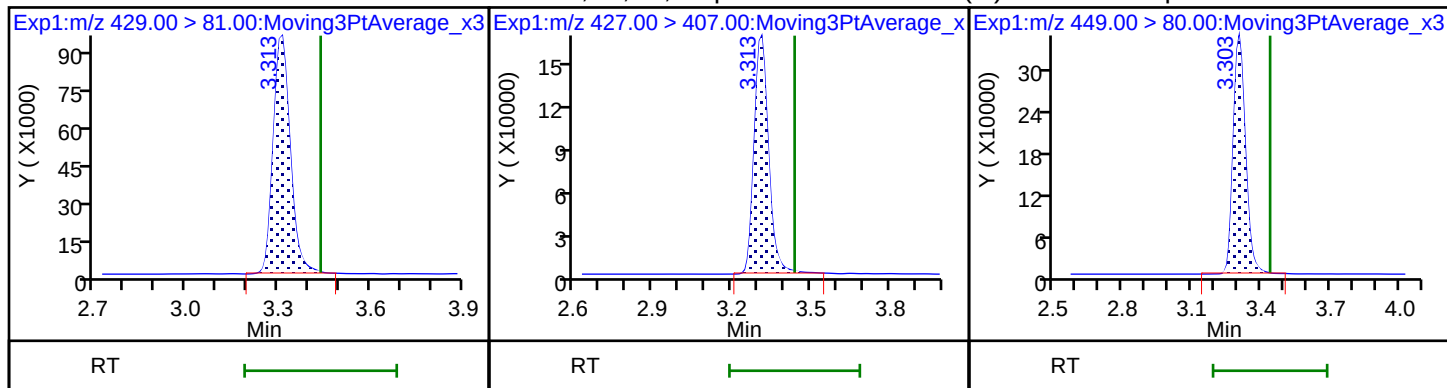
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

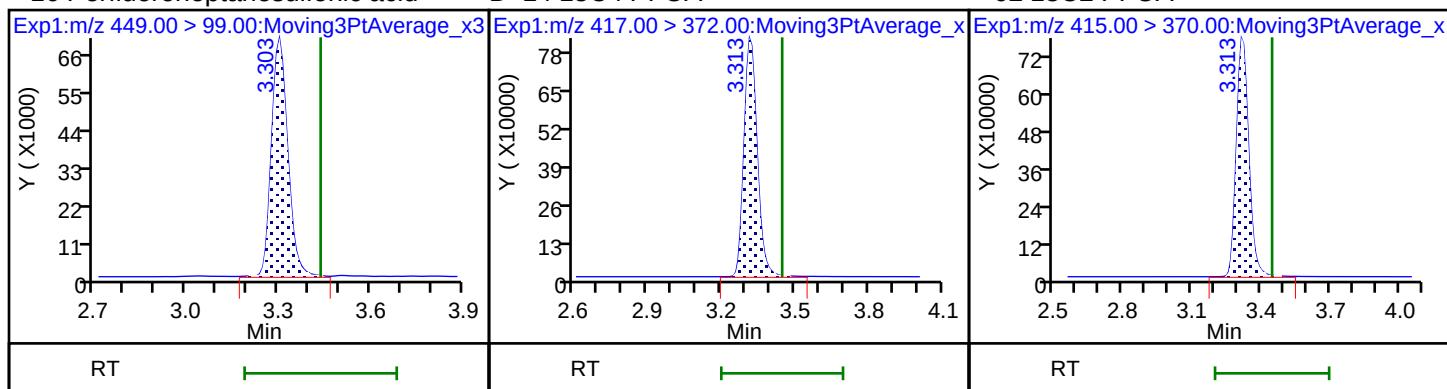
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

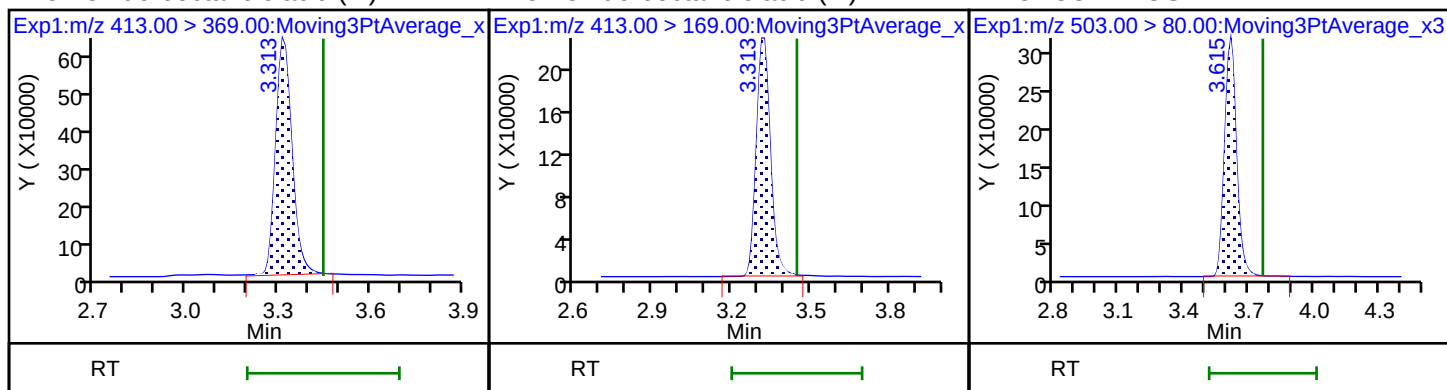
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

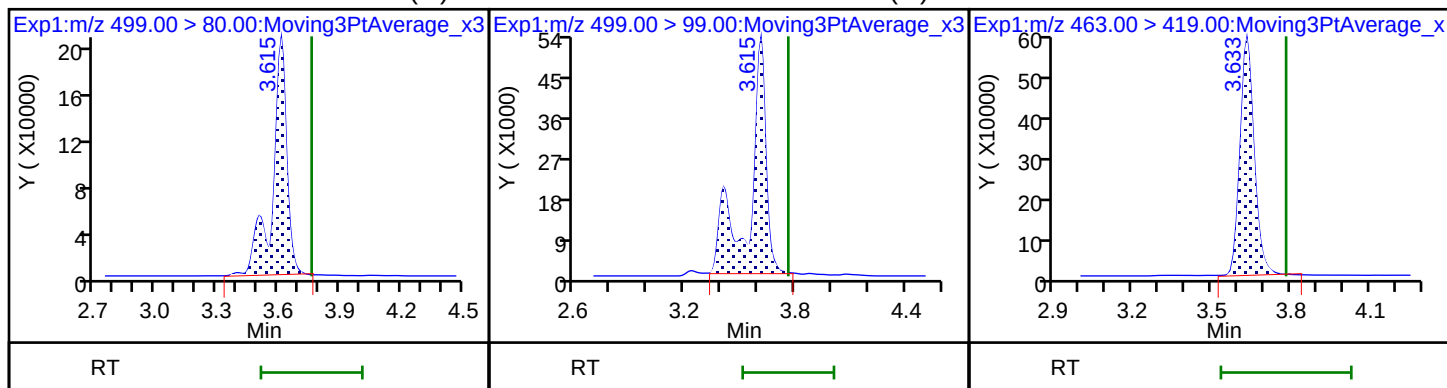
D 18 13C4 PFOS

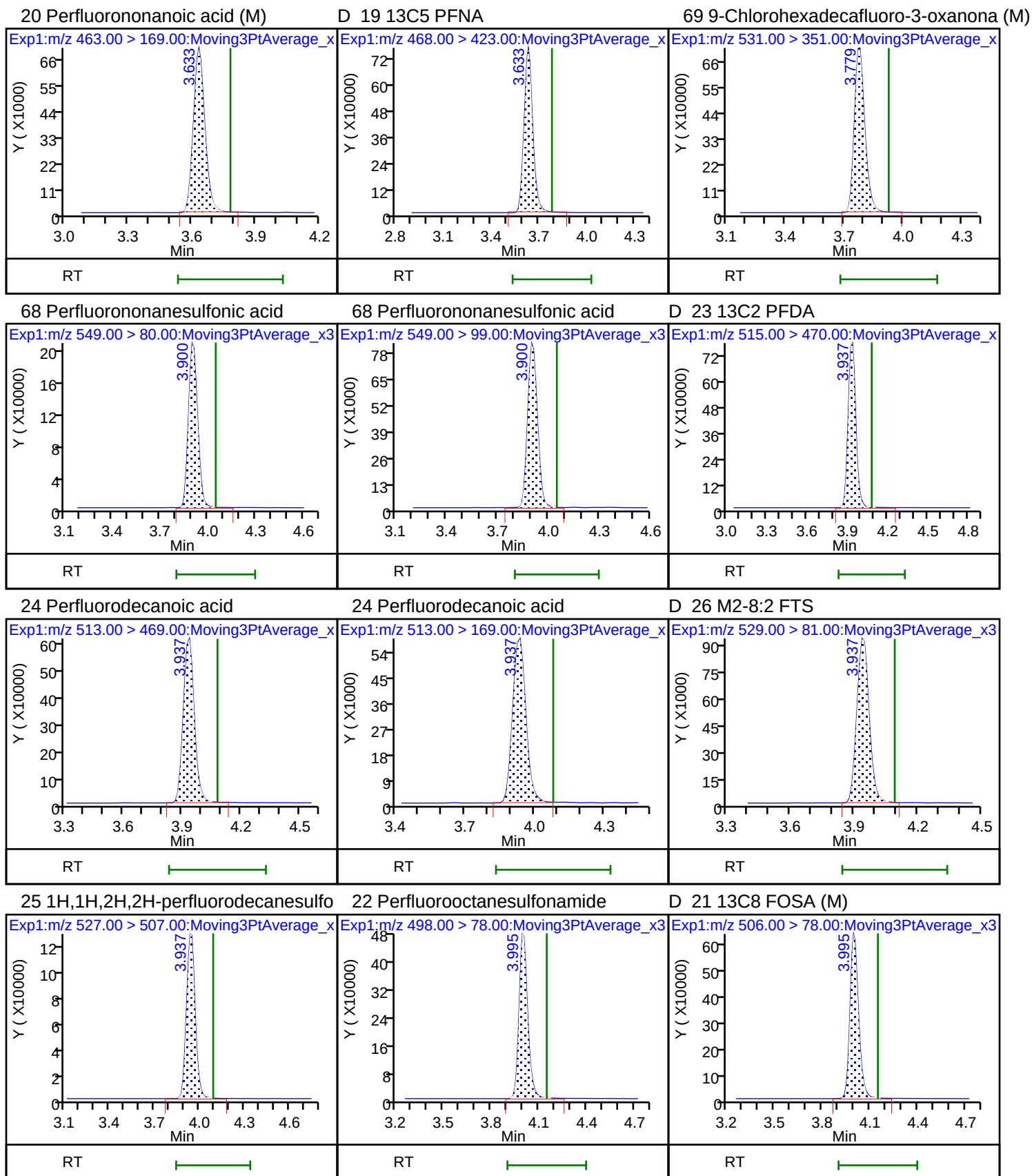


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

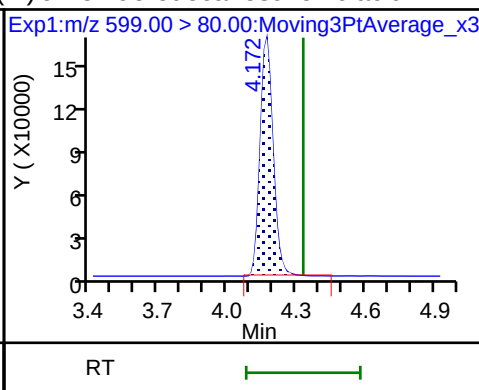
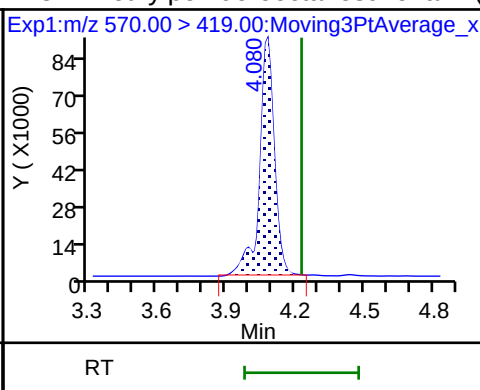
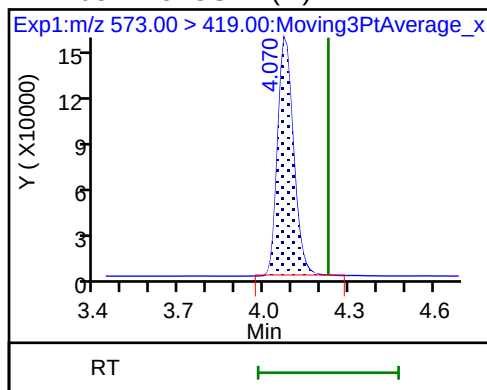




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

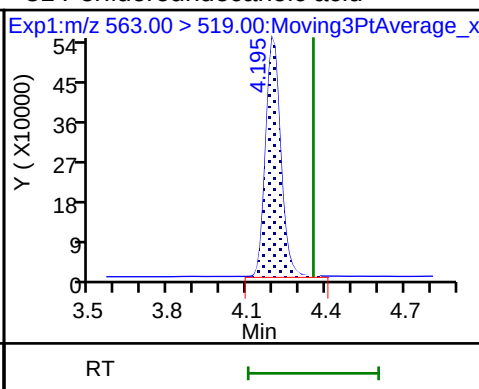
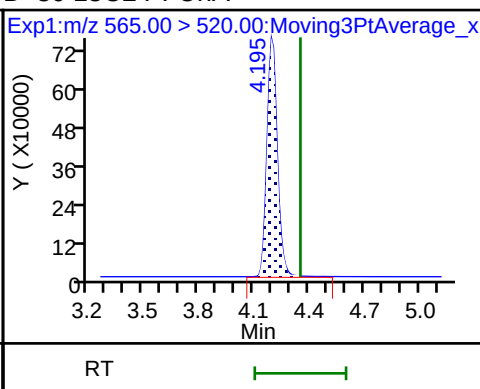
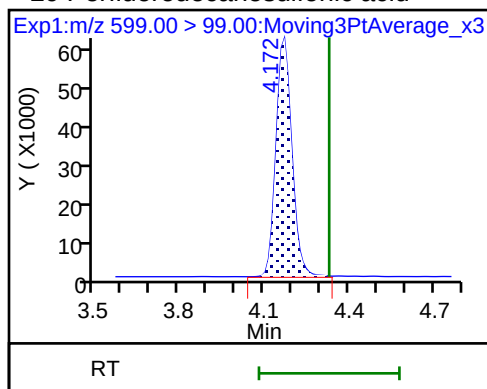
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

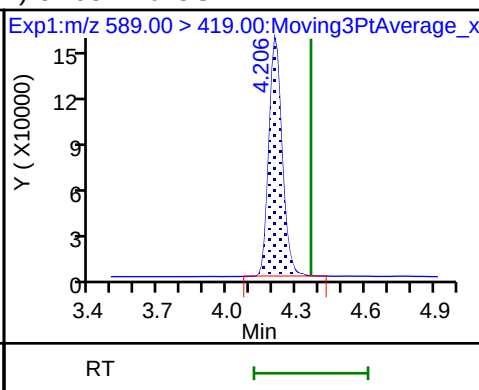
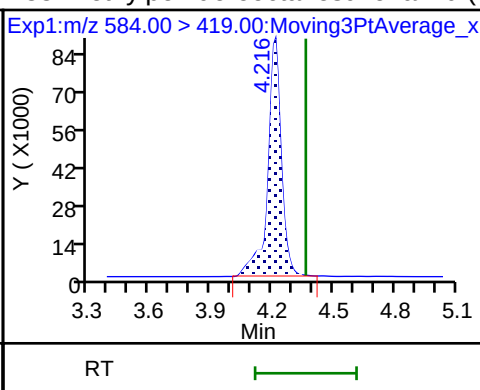
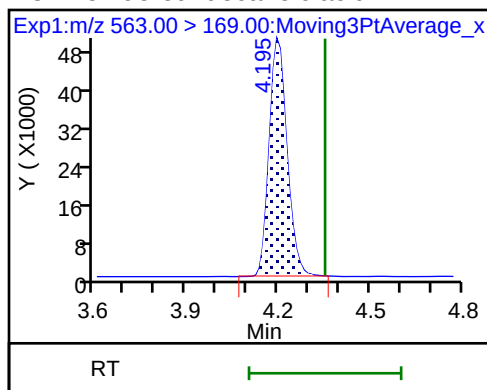
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

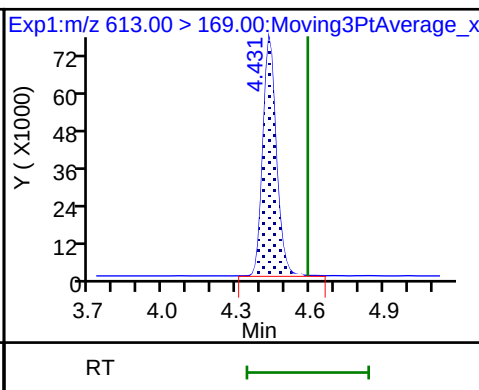
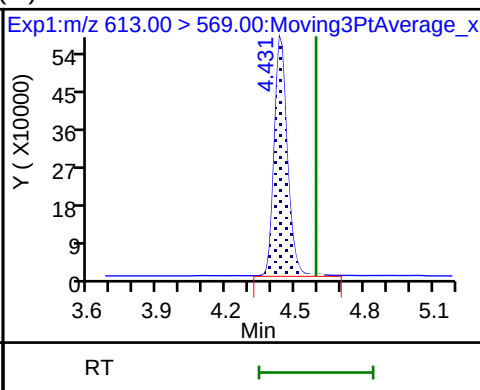
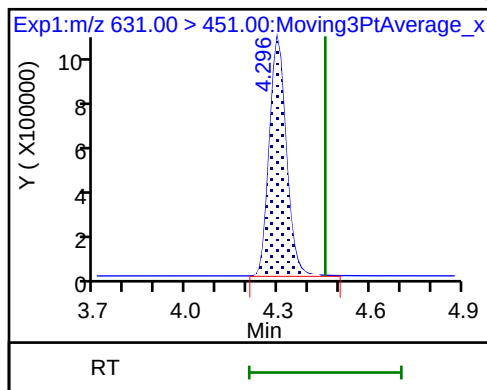
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

37 Perfluorododecanoic acid

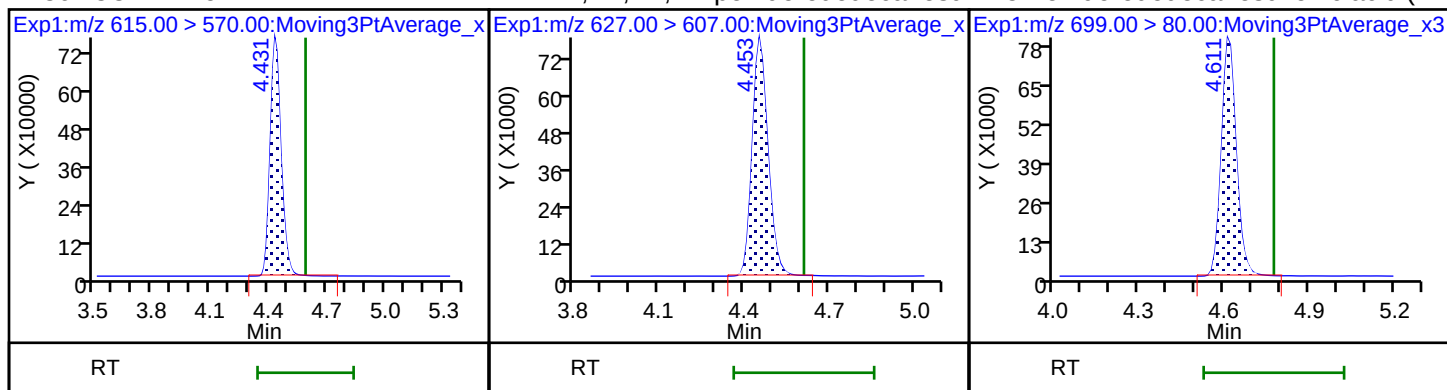
37 Perfluorododecanoic acid



D 36 13C2 PFD0A

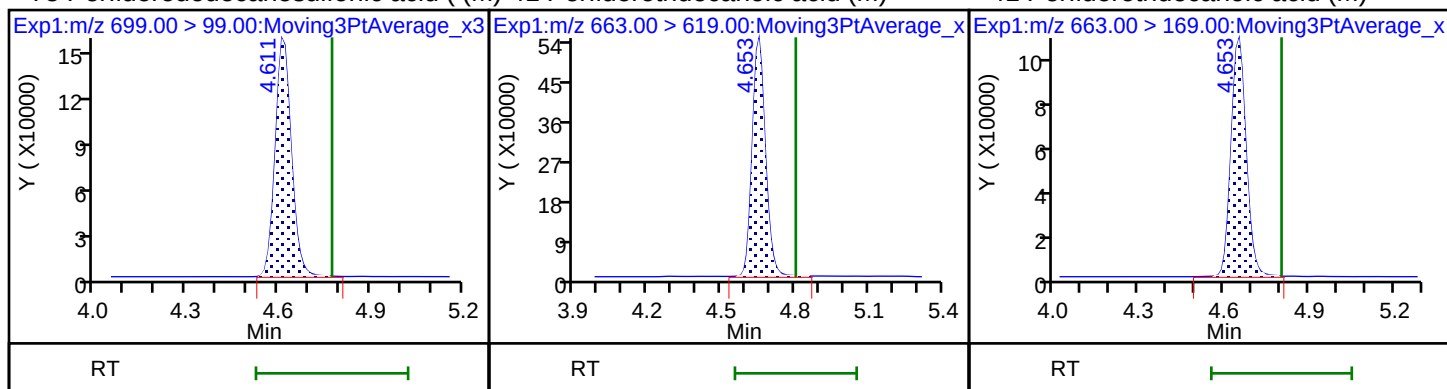
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

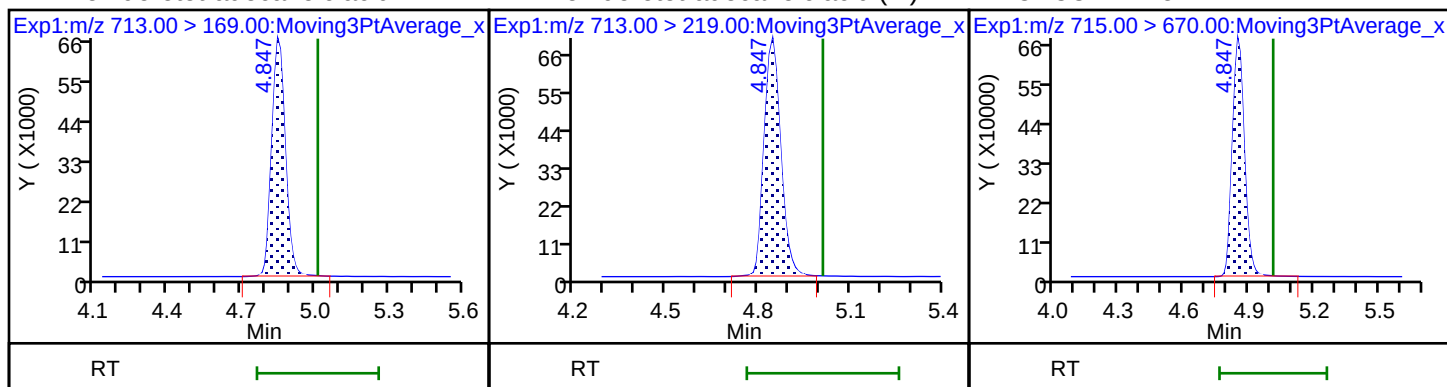
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

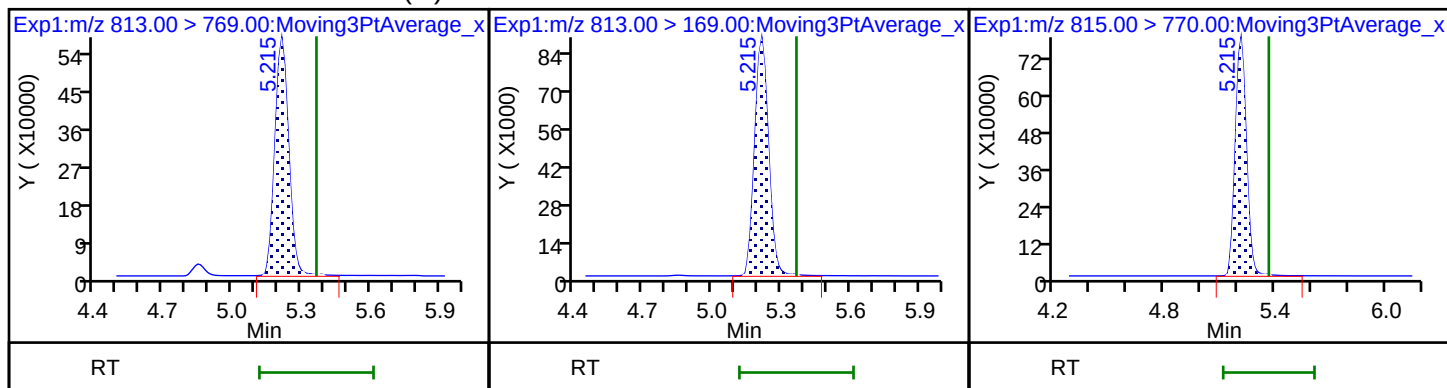
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

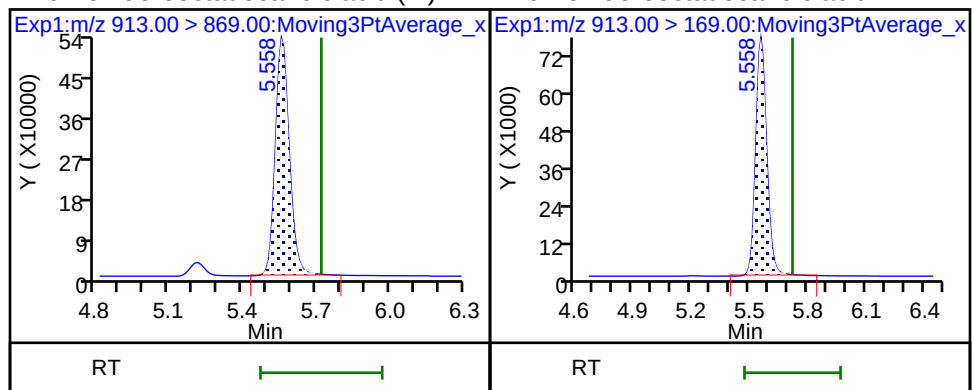
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

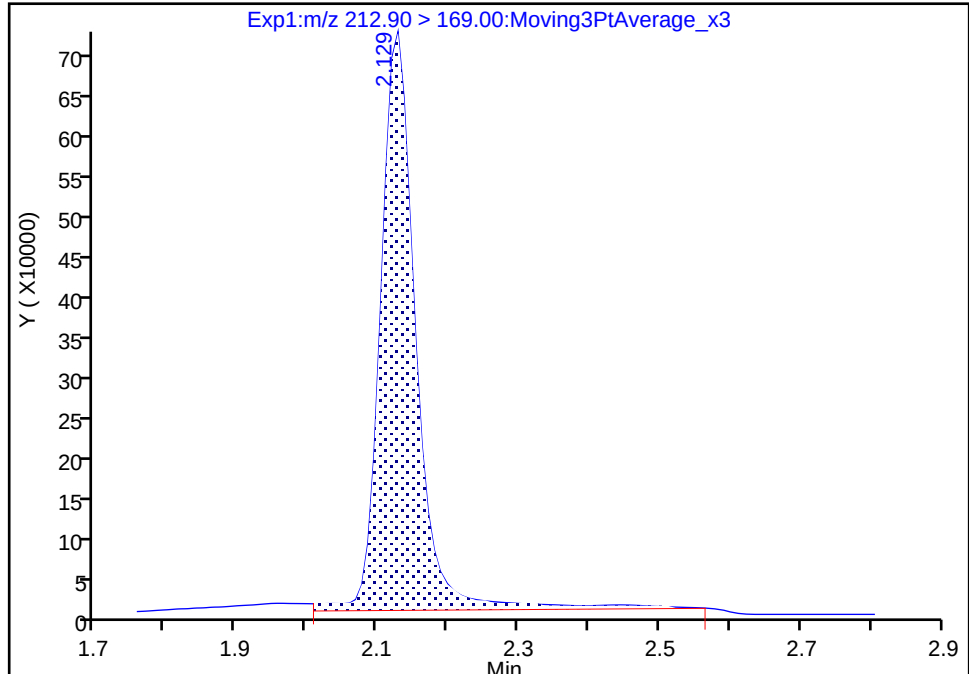
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

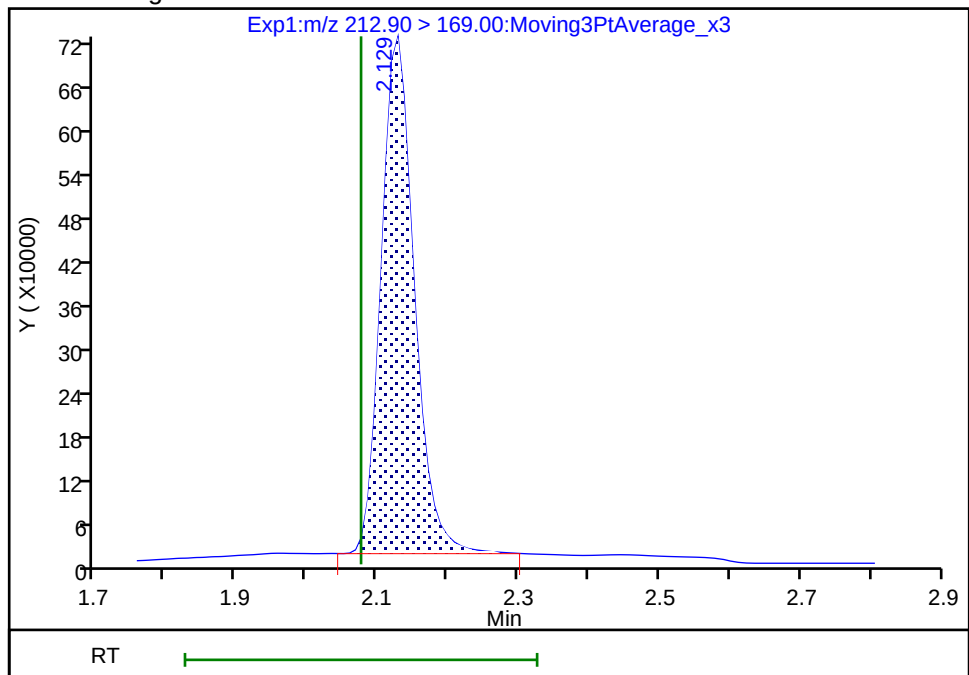
RT: 2.13
Area: 2527774
Amount: 0.949148
Amount Units: ng/ml

Processing Integration Results



RT: 2.13
Area: 2323261
Amount: 0.872356
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:07:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

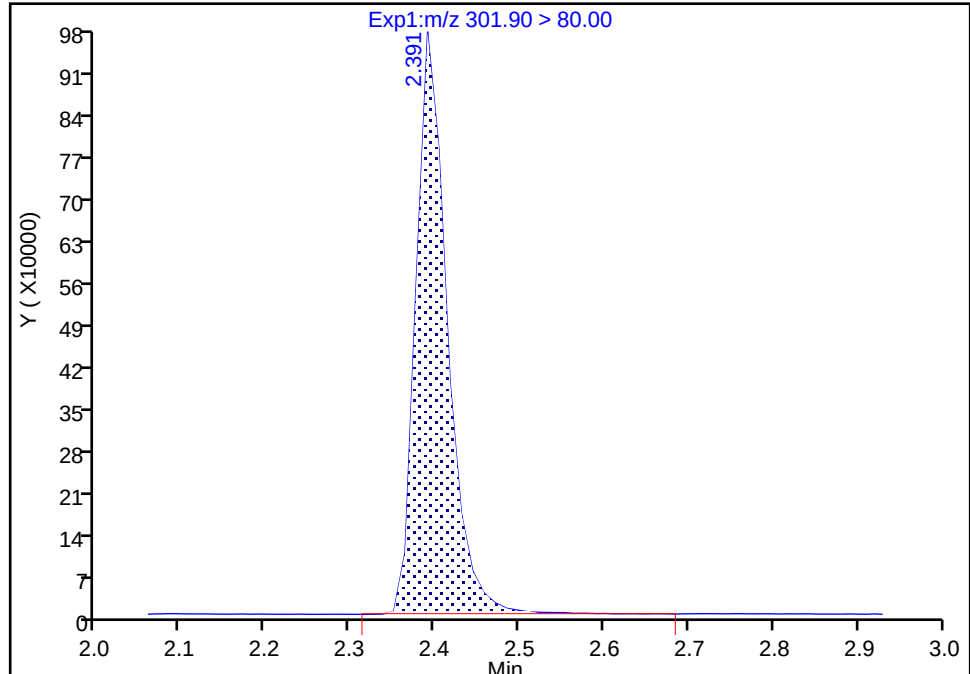
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

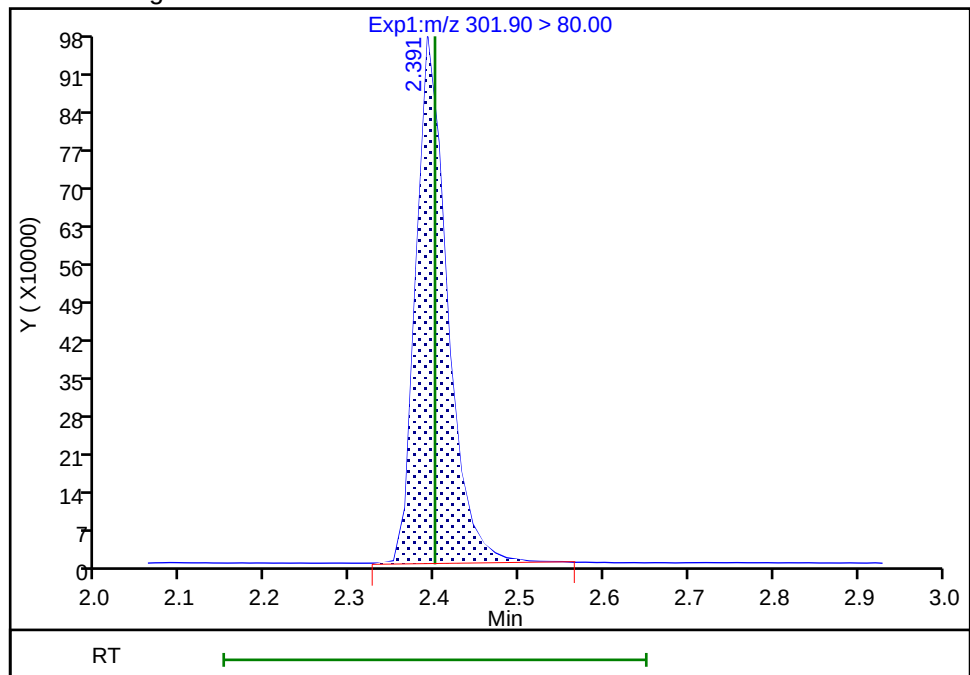
RT: 2.39
Area: 2519038
Amount: 1.169852
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 2504097
Amount: 1.162913
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:07:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

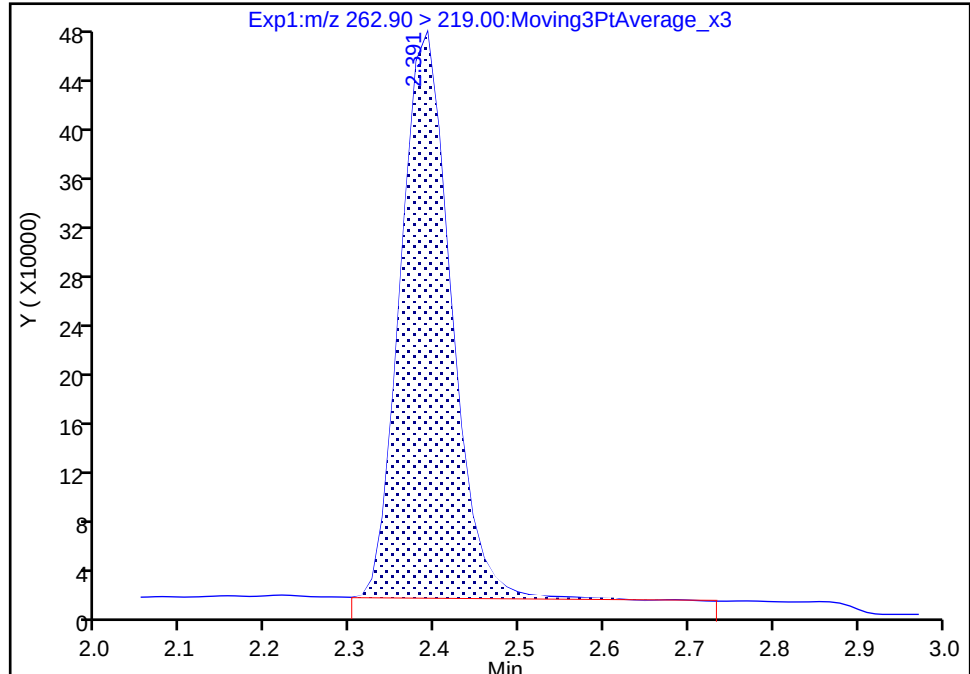
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

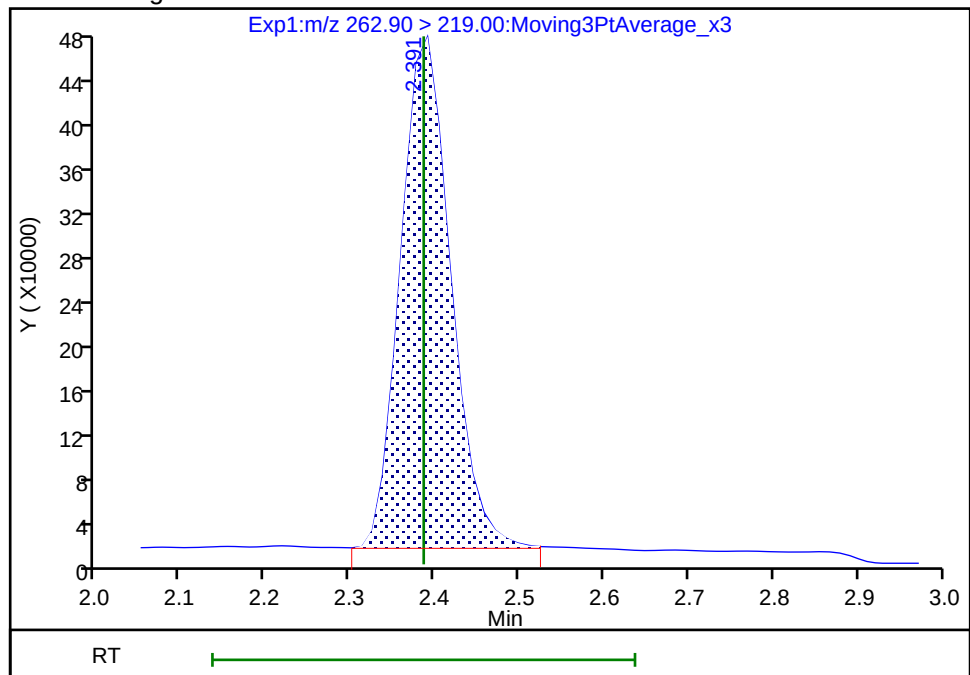
RT: 2.39
Area: 1919603
Amount: 0.881771
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1905987
Amount: 0.875517
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

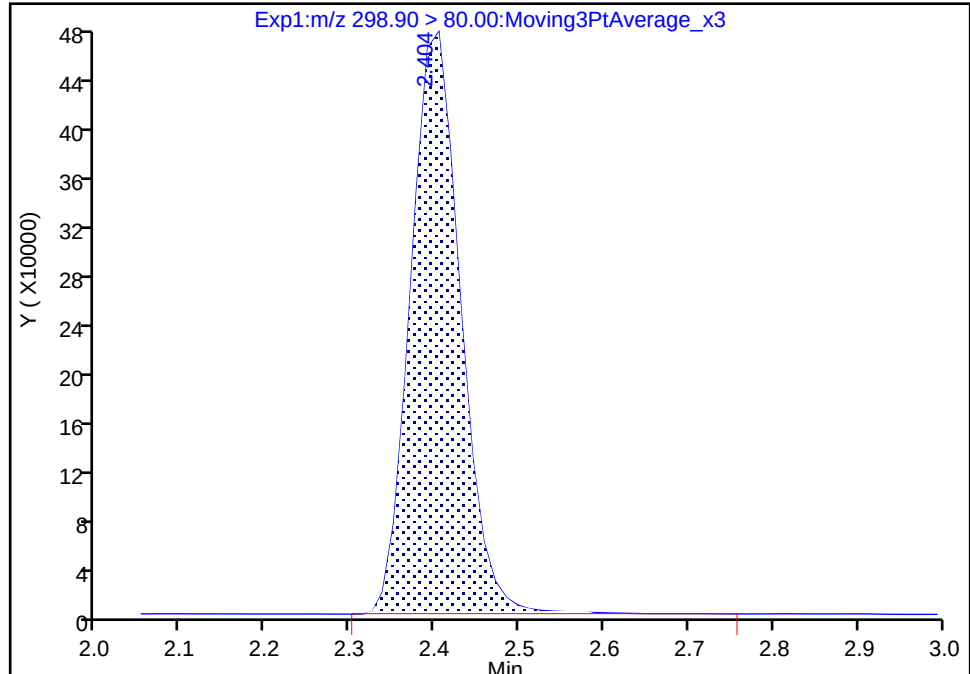
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

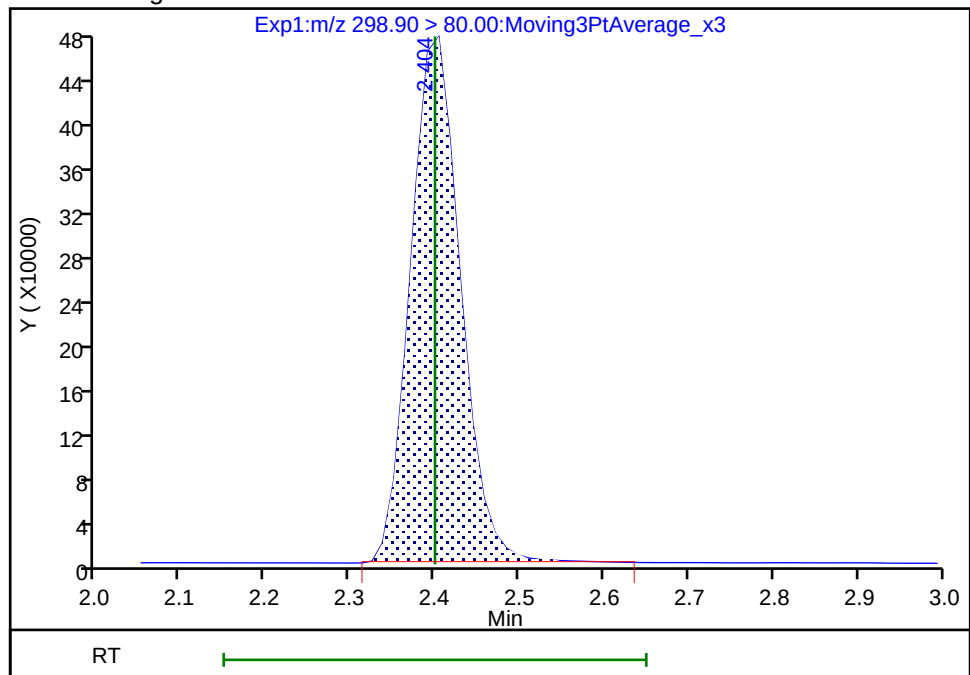
RT: 2.40
Area: 1966193
Amount: 0.797829
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1959597
Amount: 0.795153
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

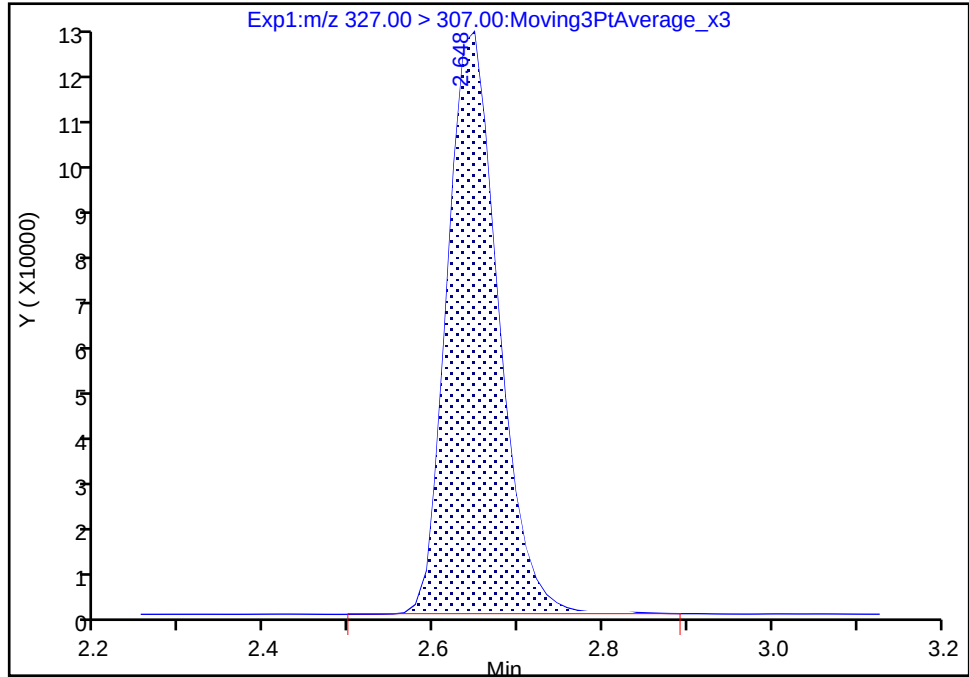
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

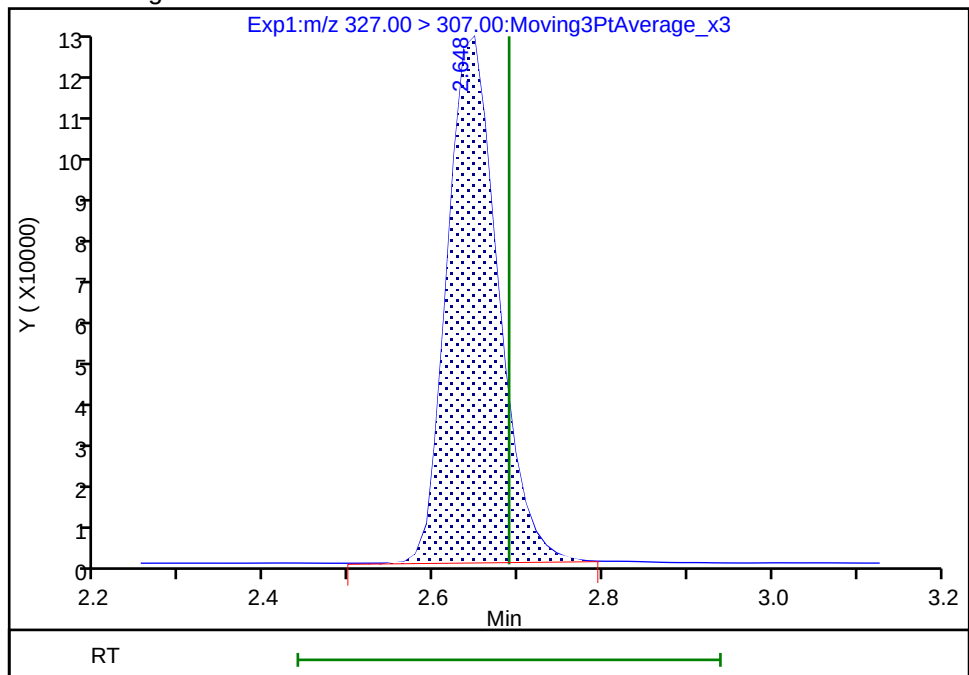
RT: 2.65
Area: 529166
Amount: 0.850359
Amount Units: ng/ml

Processing Integration Results



RT: 2.65
Area: 527879
Amount: 0.848291
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

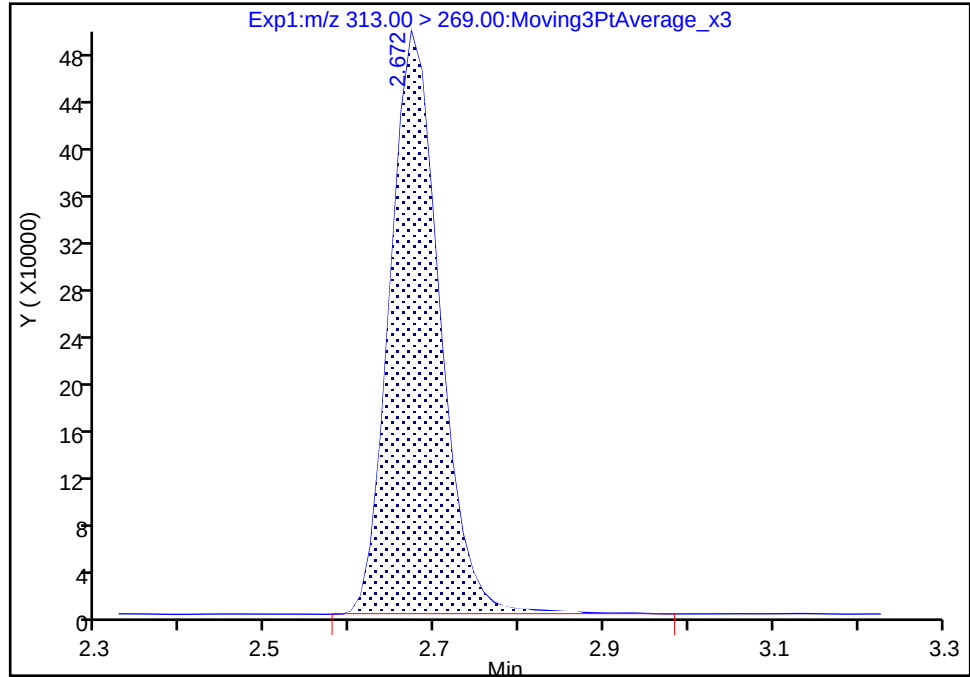
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

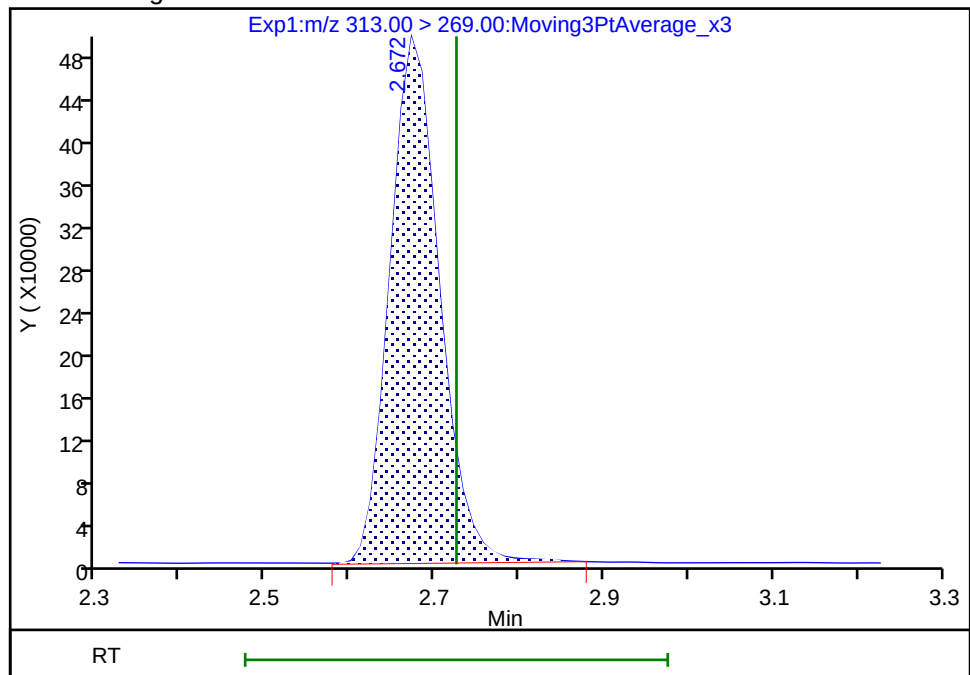
RT: 2.67
Area: 2004813
Amount: 0.870007
Amount Units: ng/ml

Processing Integration Results



RT: 2.67
Area: 1989712
Amount: 0.863454
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

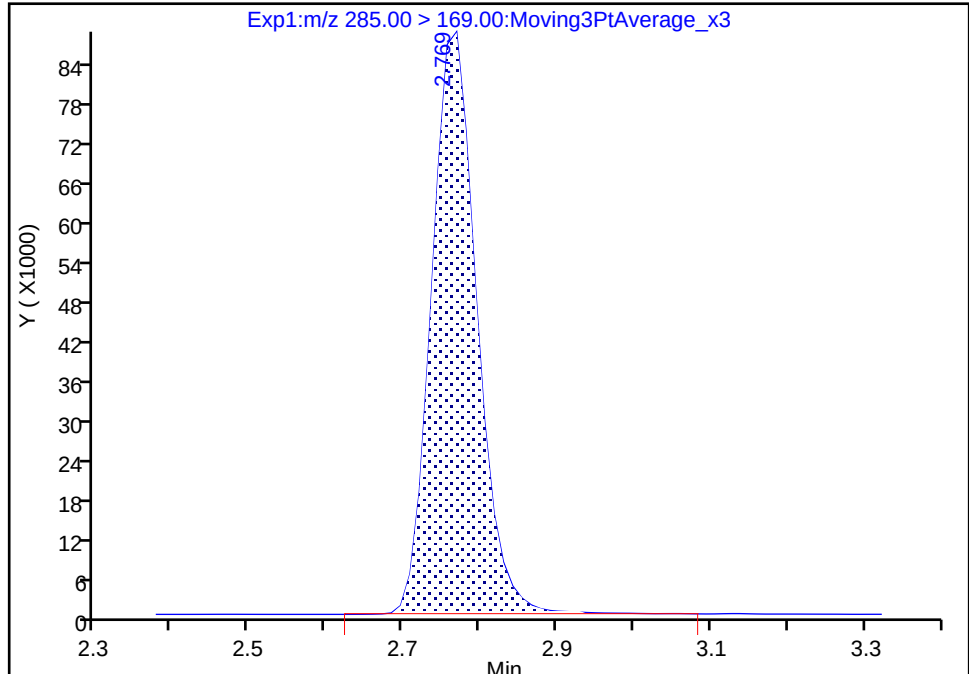
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

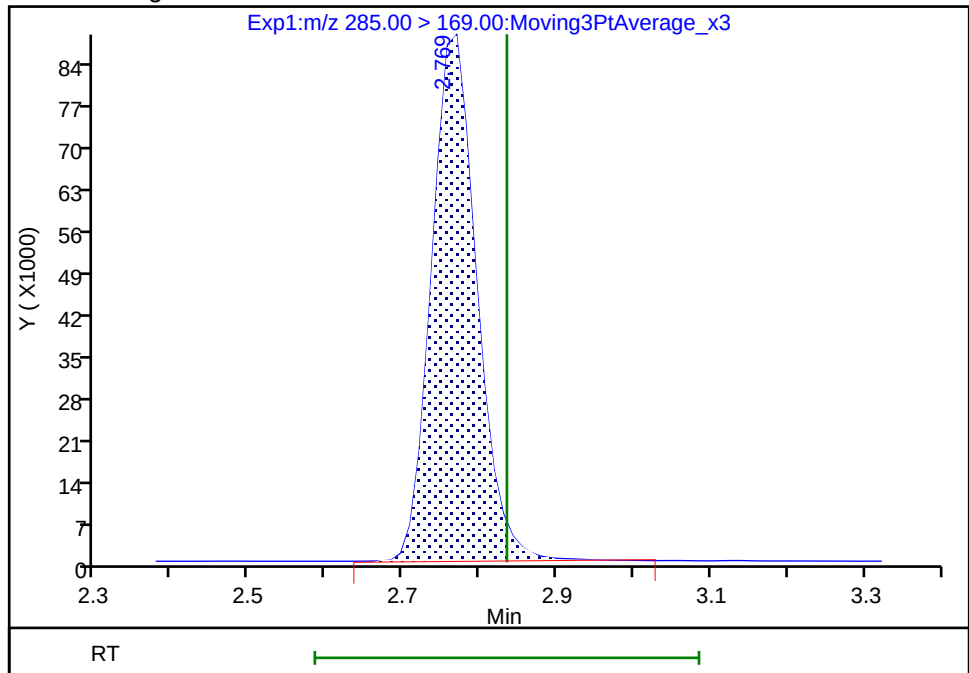
RT: 2.77
Area: 365032
Amount: 0.939027
Amount Units: ng/ml

Processing Integration Results



RT: 2.77
Area: 363849
Amount: 0.935984
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

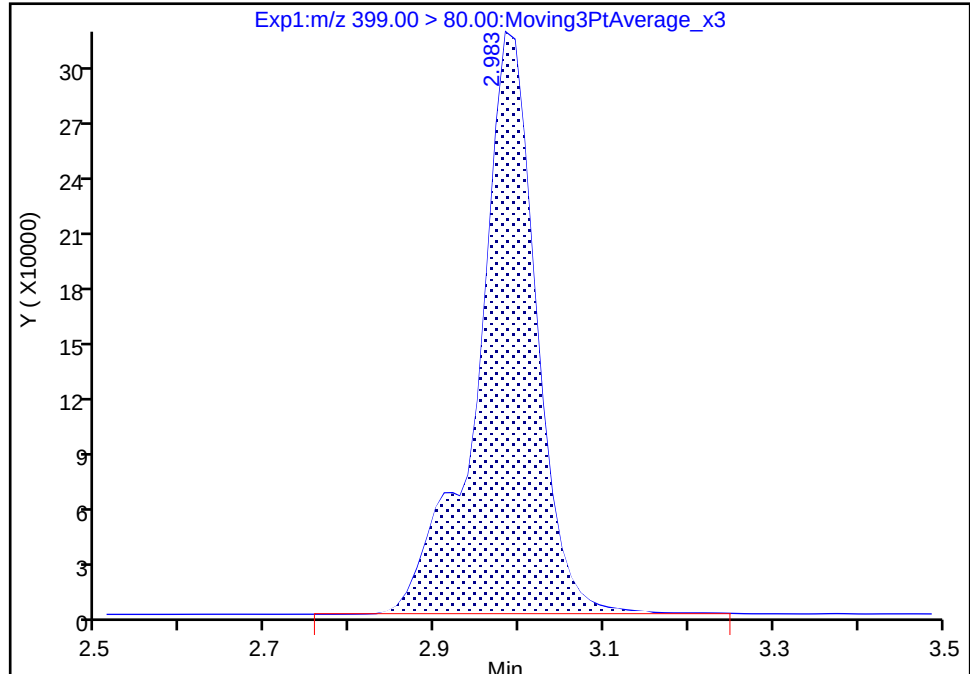
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

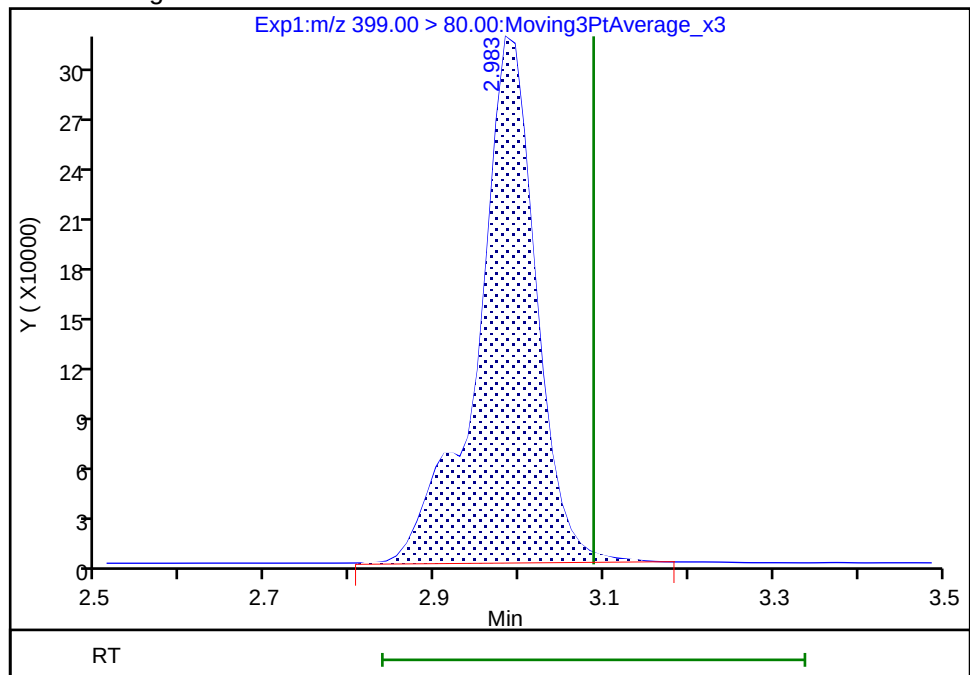
RT: 2.98
Area: 1495600
Amount: 0.864271
Amount Units: ng/ml

Processing Integration Results



RT: 2.98
Area: 1491000
Amount: 0.861613
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

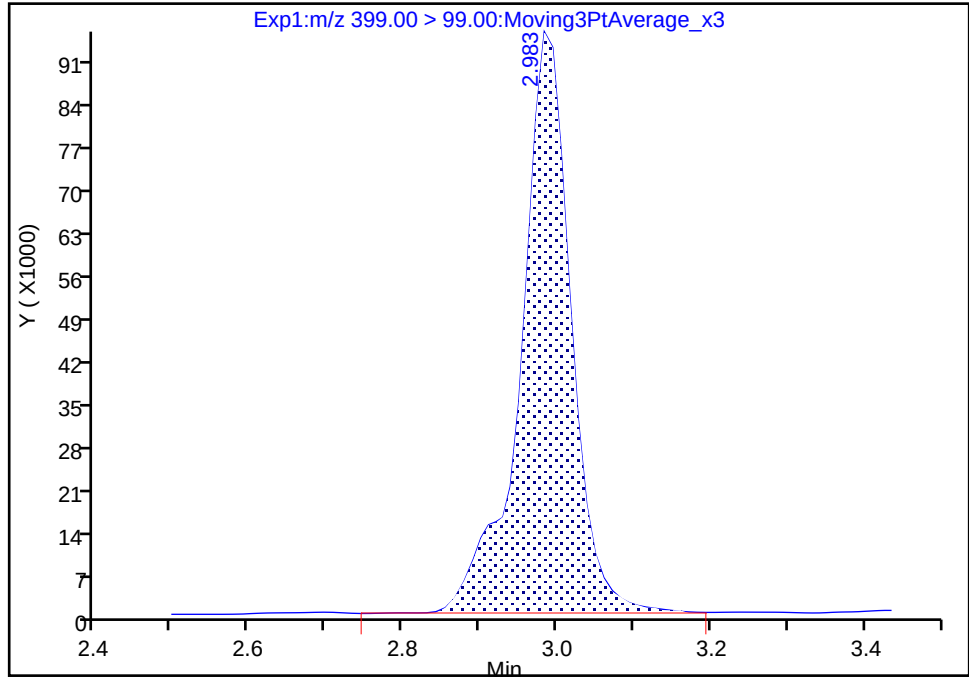
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

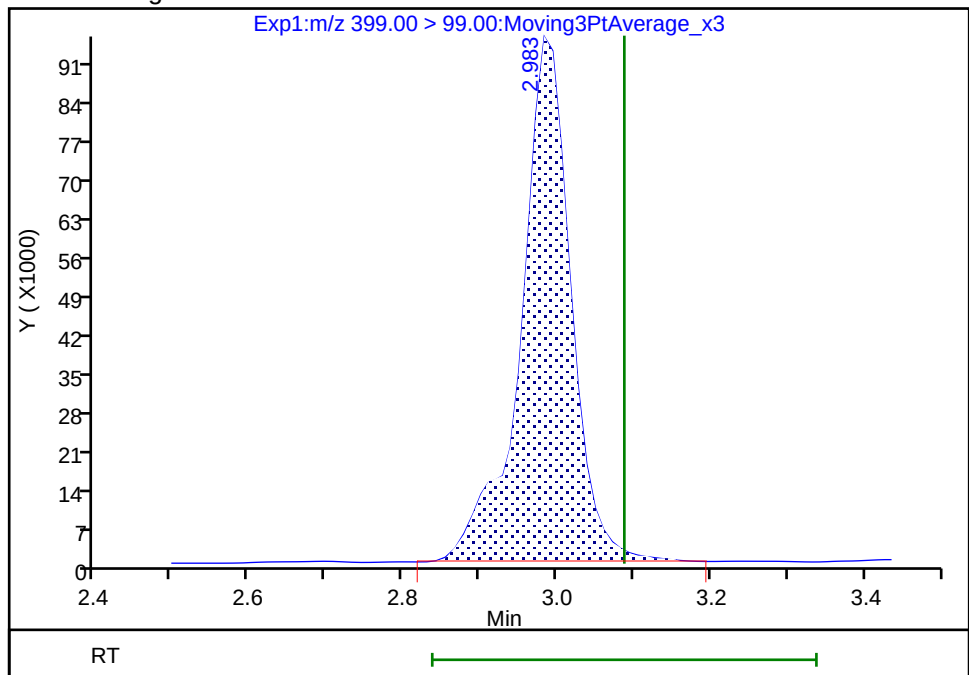
RT: 2.98
Area: 433254
Amount: 0.864271
Amount Units: ng/ml

Processing Integration Results



RT: 2.98
Area: 432285
Amount: 0.861613
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

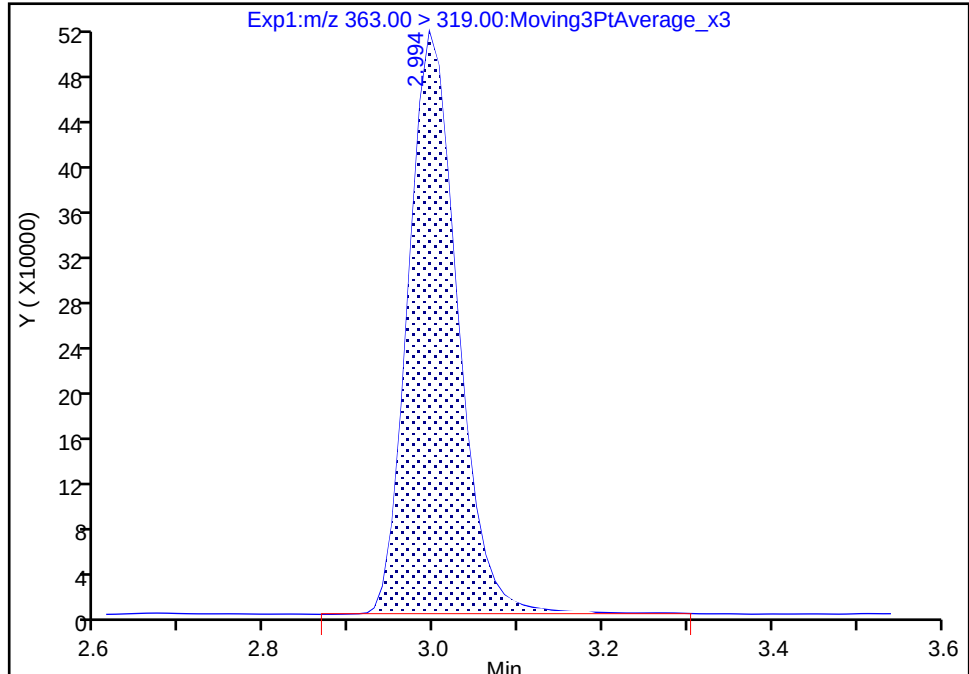
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

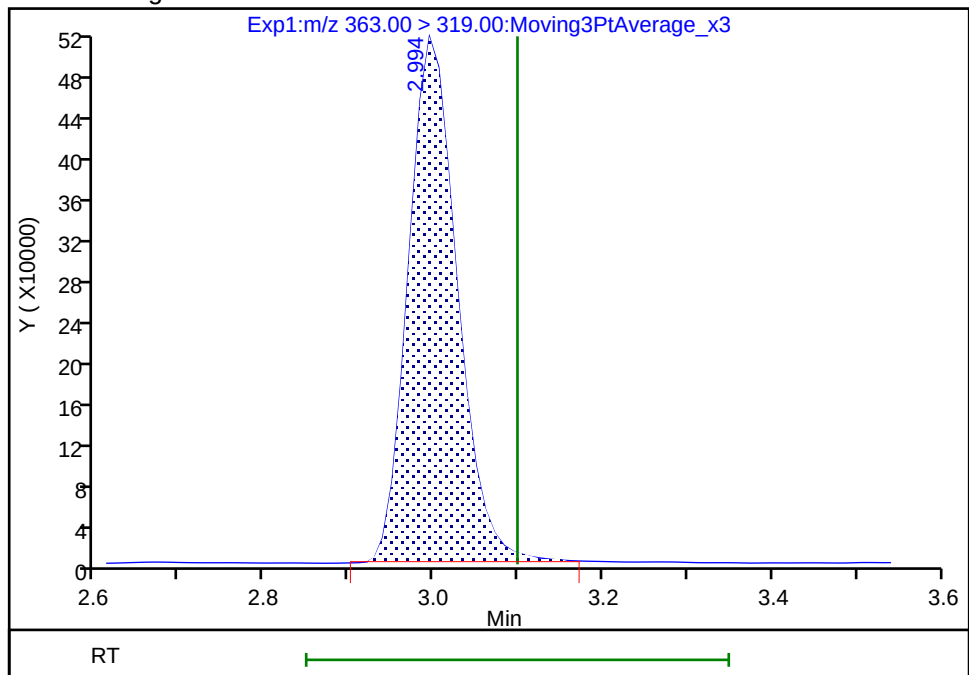
RT: 2.99
Area: 2074892
Amount: 0.898884
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 2052886
Amount: 0.889350
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

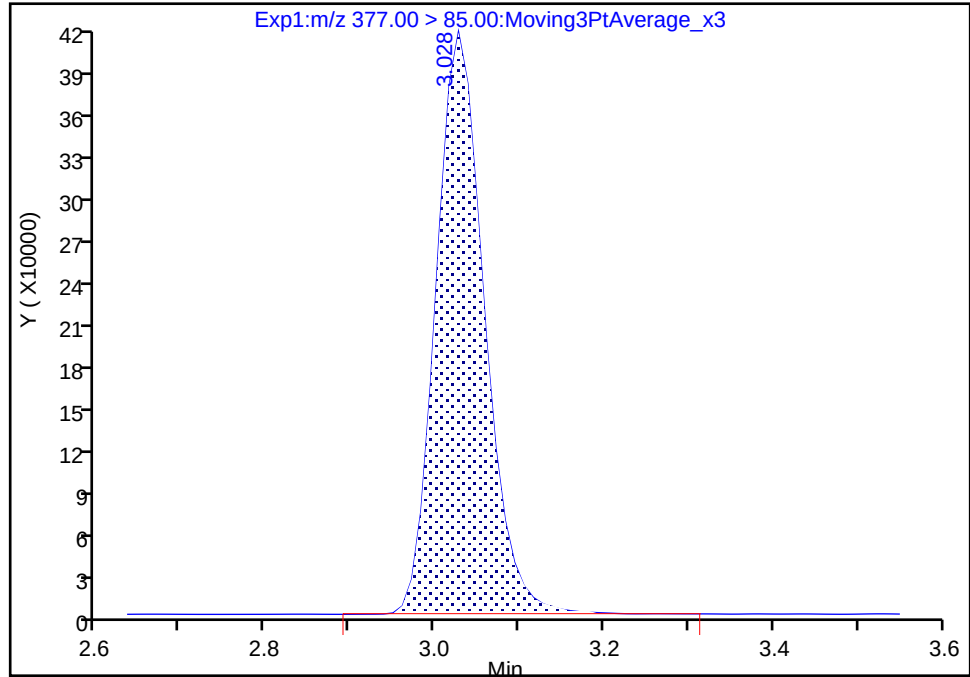
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

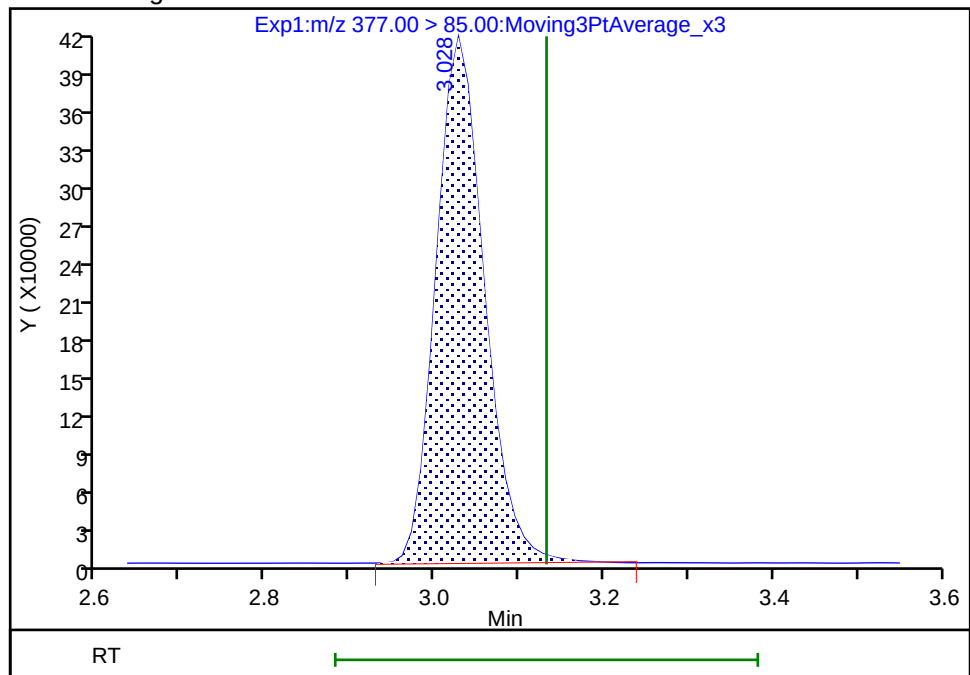
RT: 3.03
Area: 1661297
Amount: 0.909819
Amount Units: ng/ml

Processing Integration Results



RT: 3.03
Area: 1658892
Amount: 0.909819
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

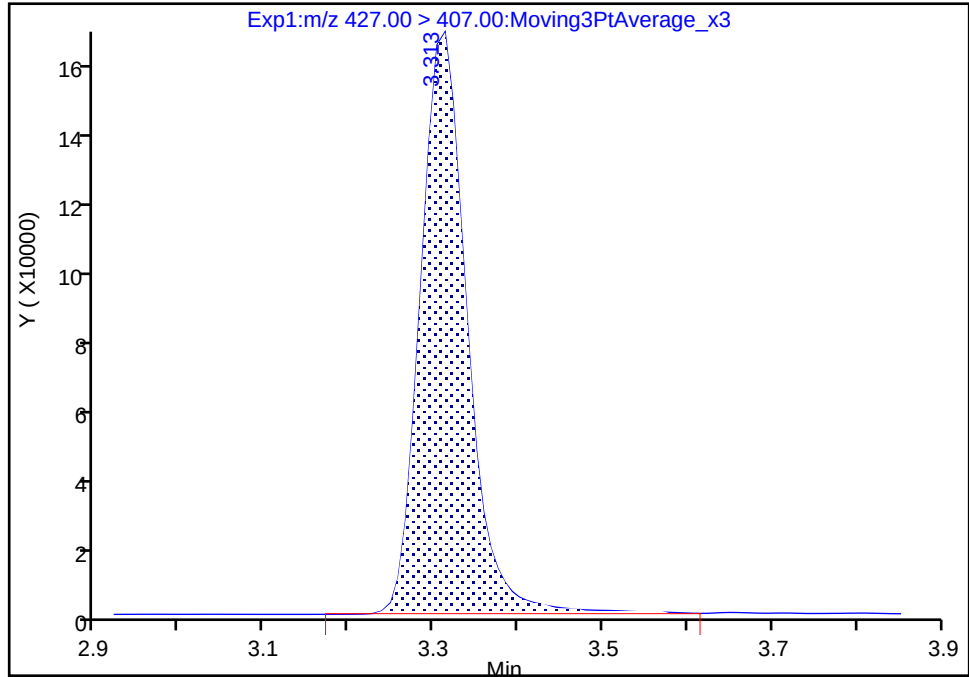
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

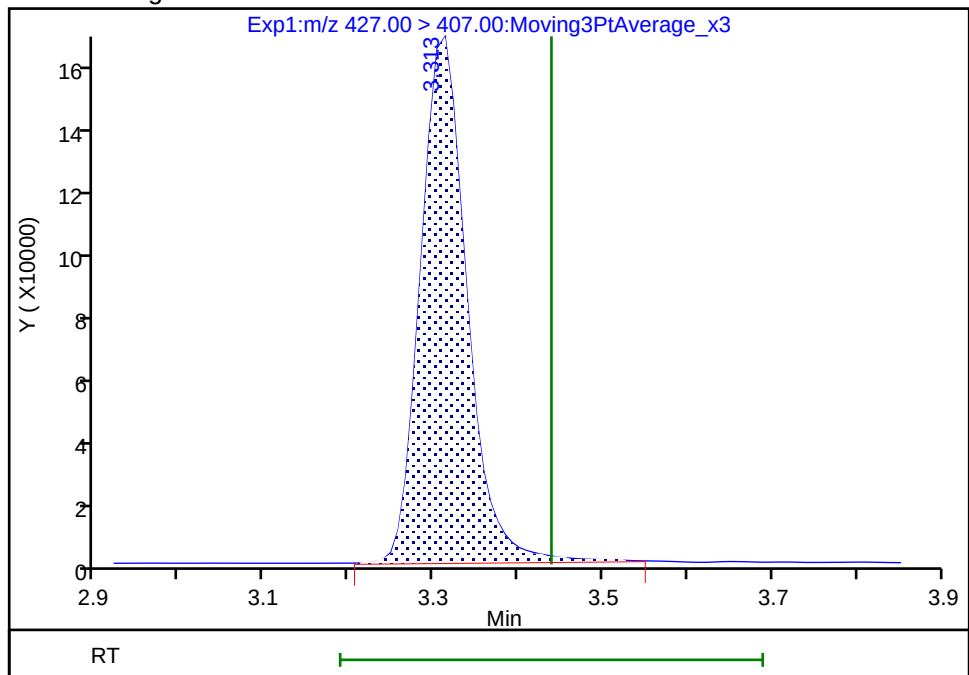
RT: 3.31
Area: 641555
Amount: 0.953421
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 634085
Amount: 0.942181
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

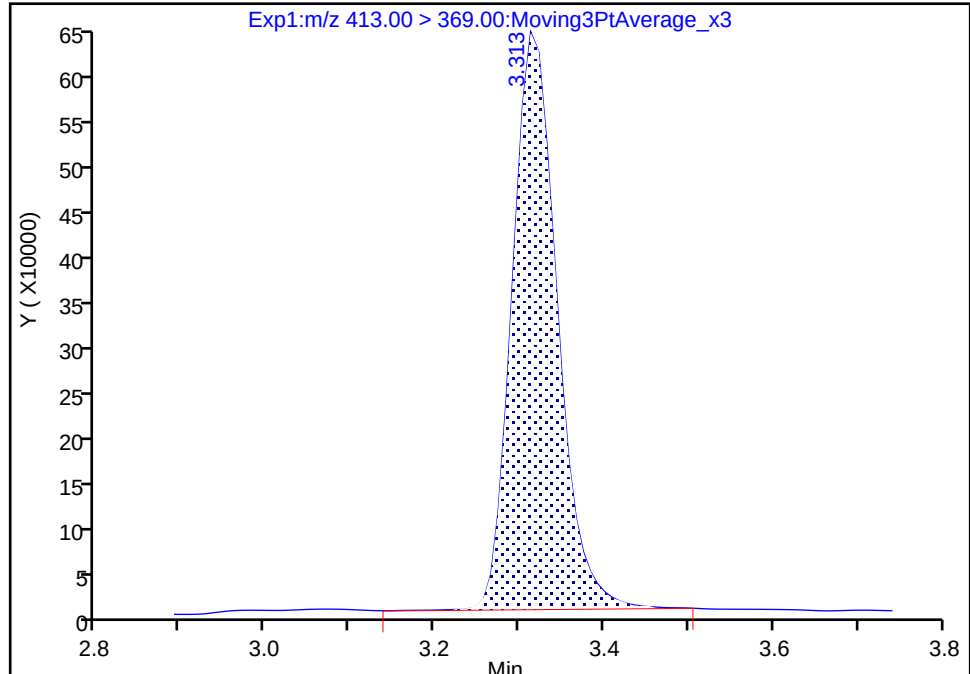
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

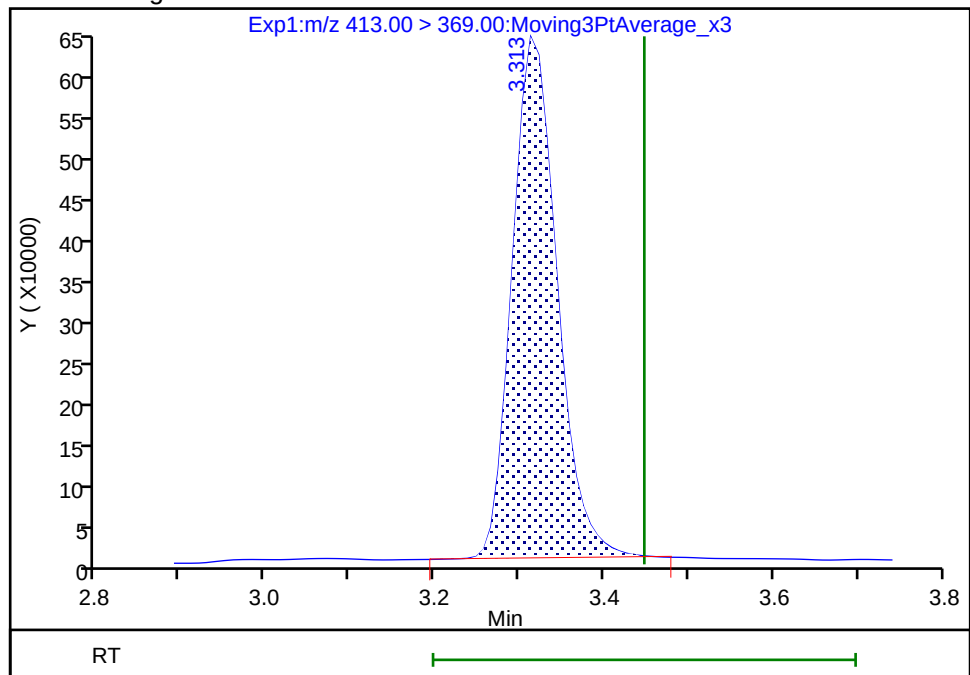
RT: 3.31
Area: 2377552
Amount: 0.904057
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 2353322
Amount: 0.894844
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:08:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

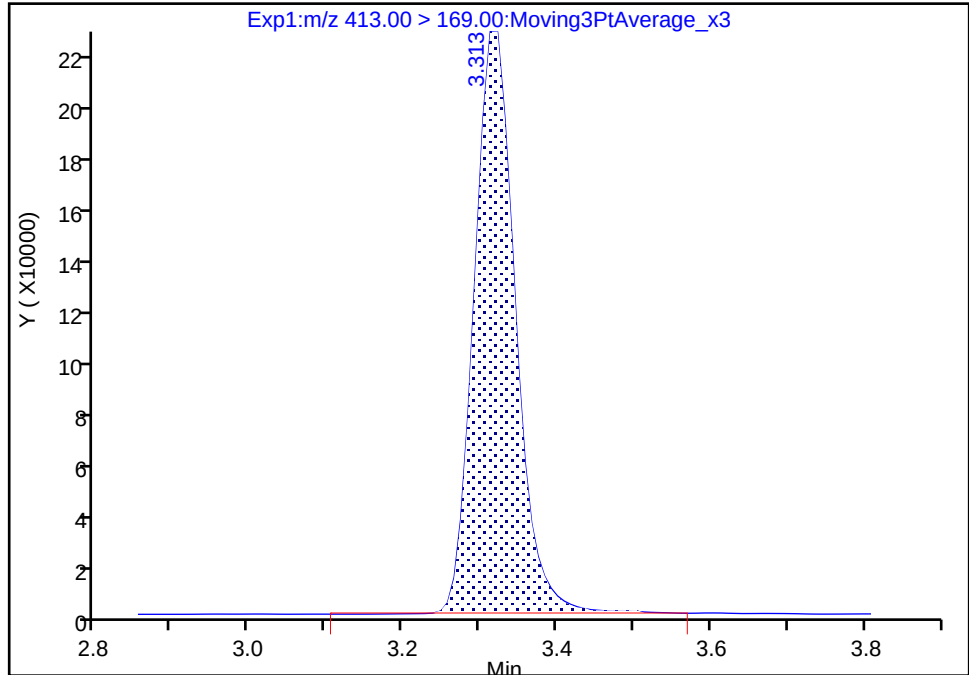
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

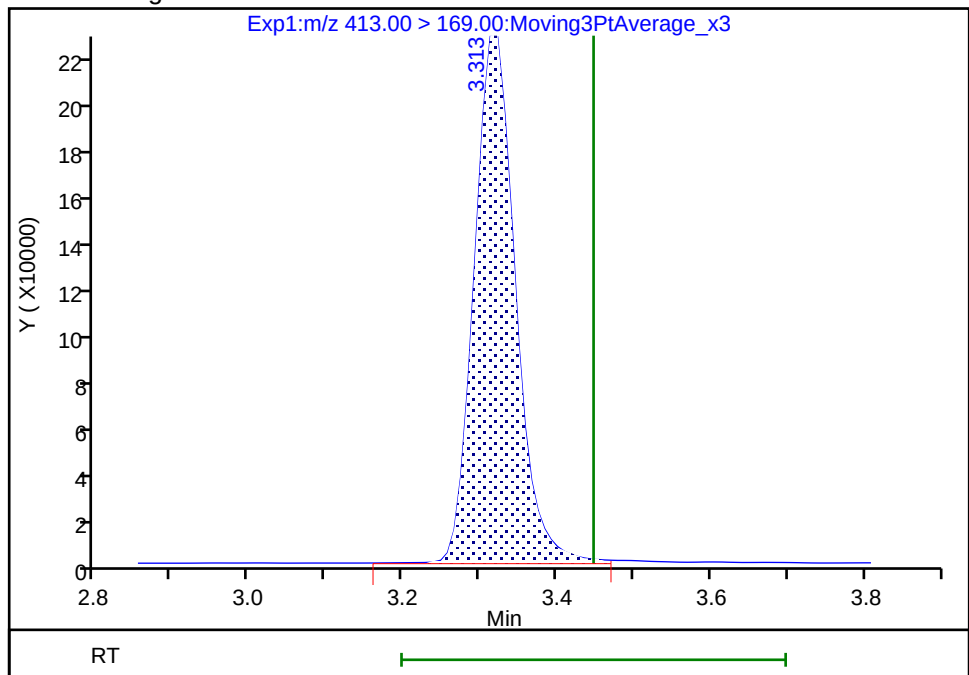
RT: 3.31
Area: 853550
Amount: 0.904057
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 850524
Amount: 0.894844
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:09:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d

Injection Date: 31-Dec-2022 01:33:45

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#:

24

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

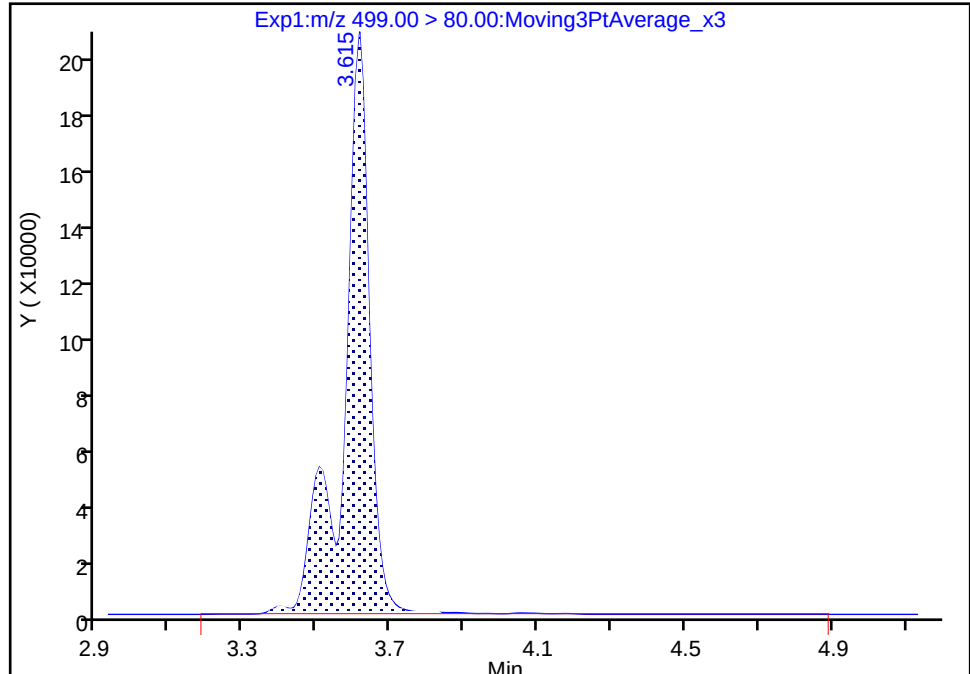
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

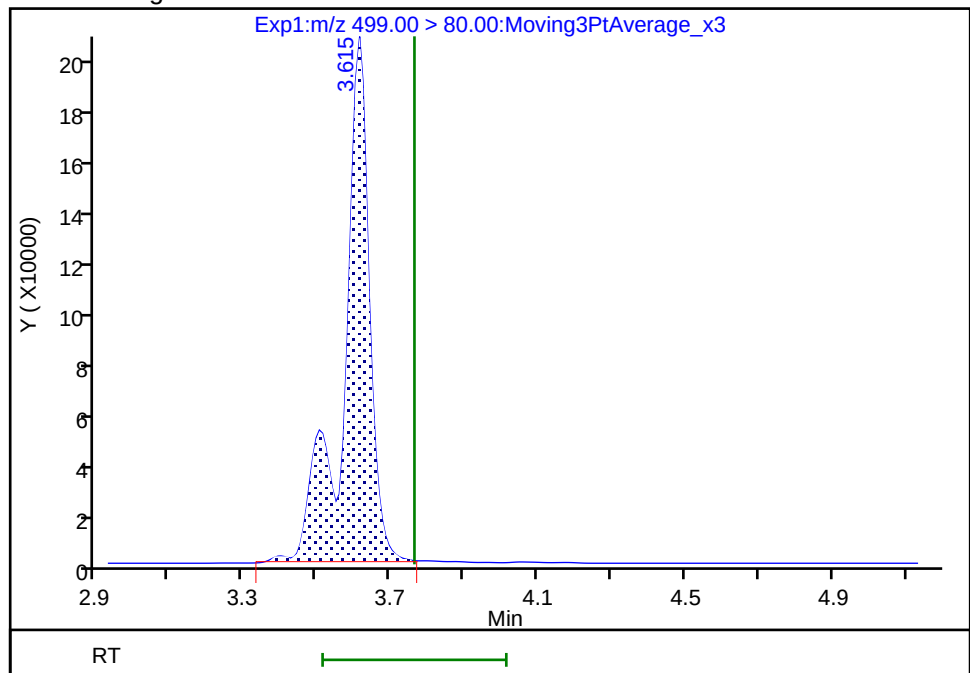
RT: 3.61
Area: 1039631
Amount: 0.848508
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 1012728
Amount: 0.826551
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

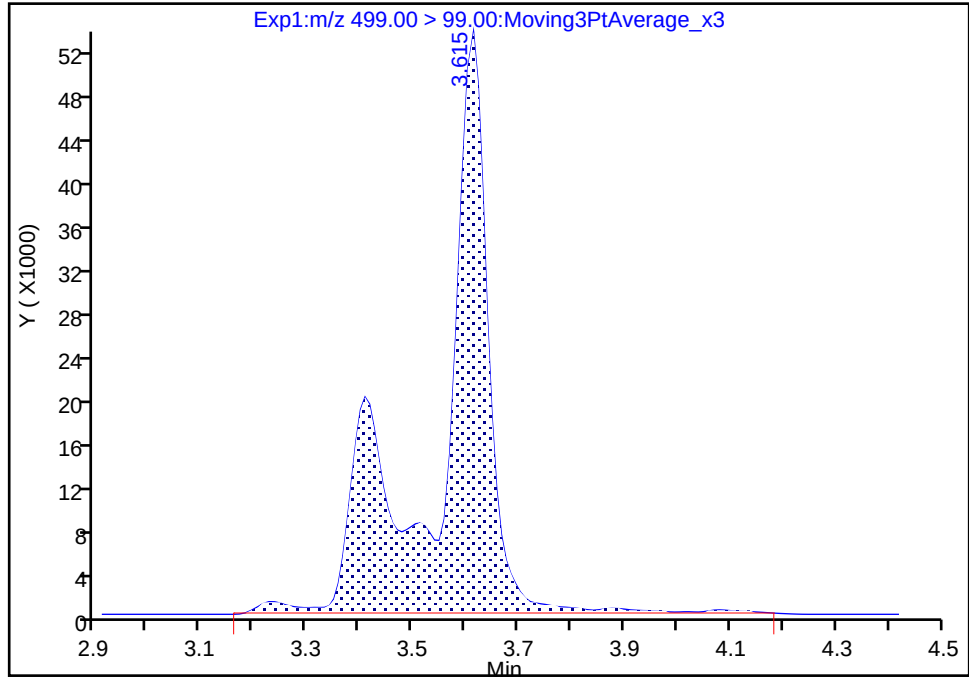
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

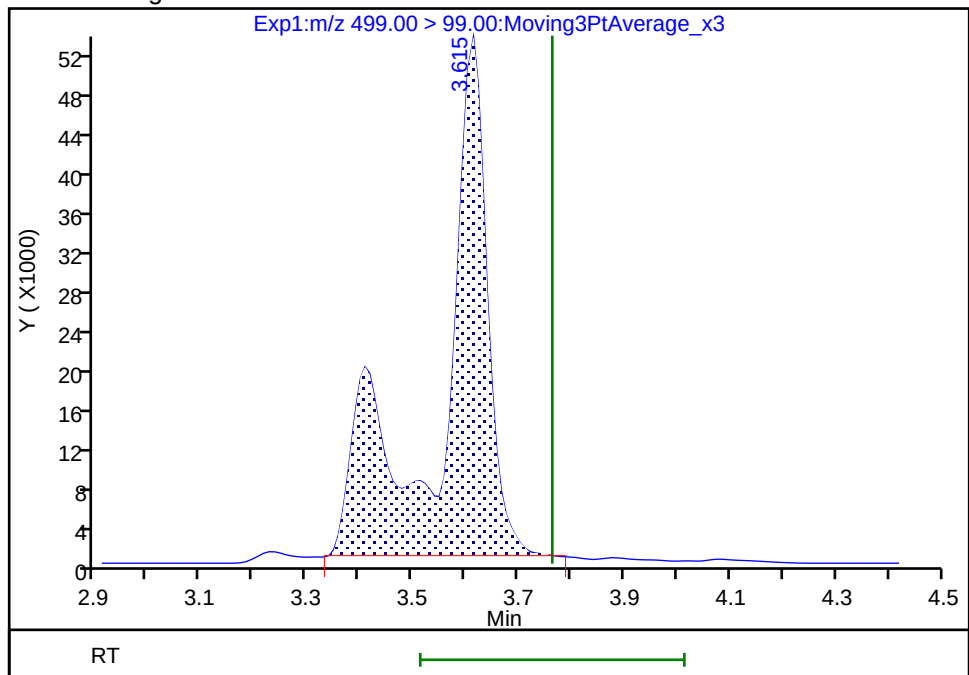
RT: 3.61
Area: 352328
Amount: 0.848508
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 323403
Amount: 0.826551
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 04-Jan-2023 11:22:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 823 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

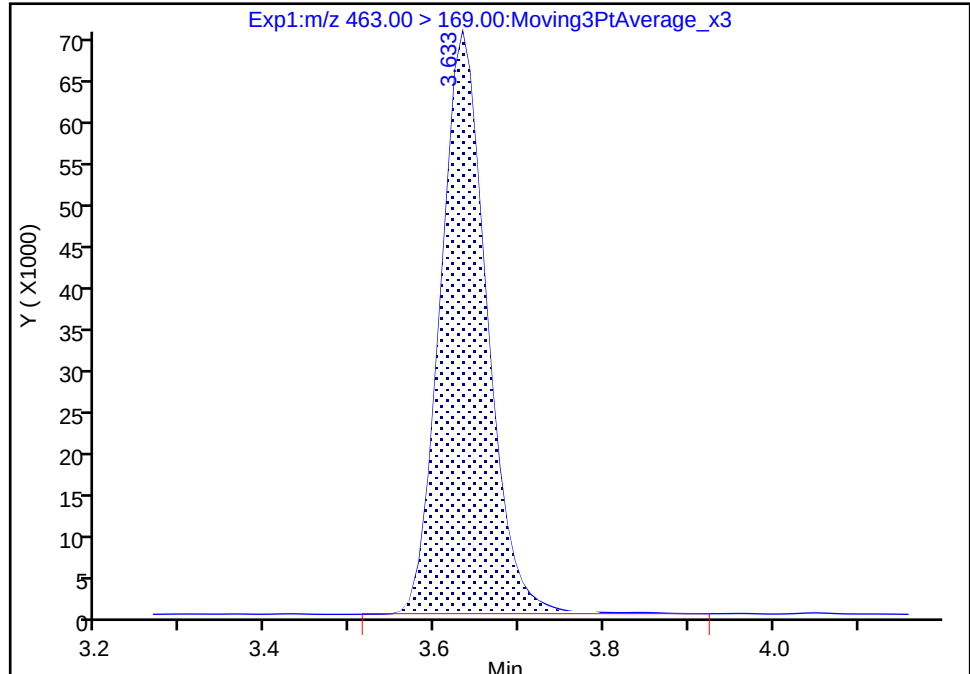
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

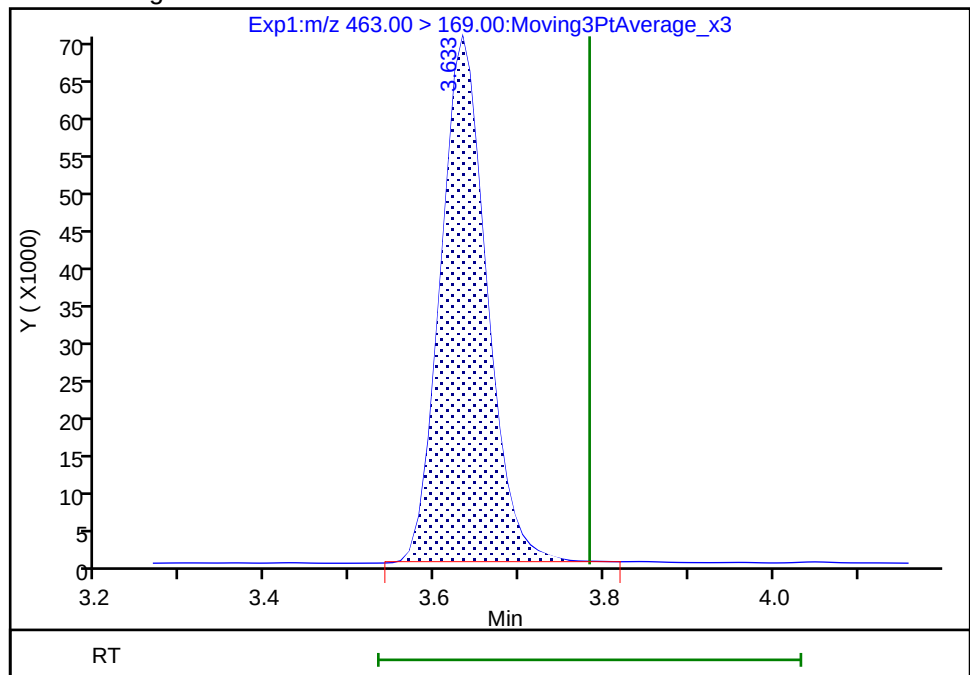
RT: 3.63
Area: 270076
Amount: 0.921197
Amount Units: ng/ml

Processing Integration Results



RT: 3.63
Area: 268187
Amount: 0.921197
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:09:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

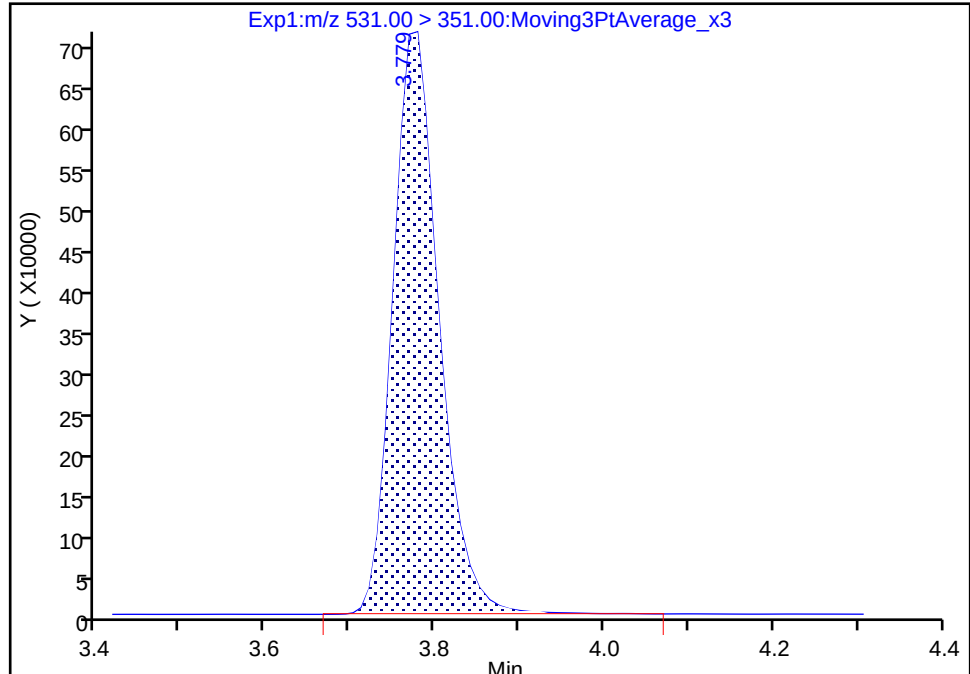
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

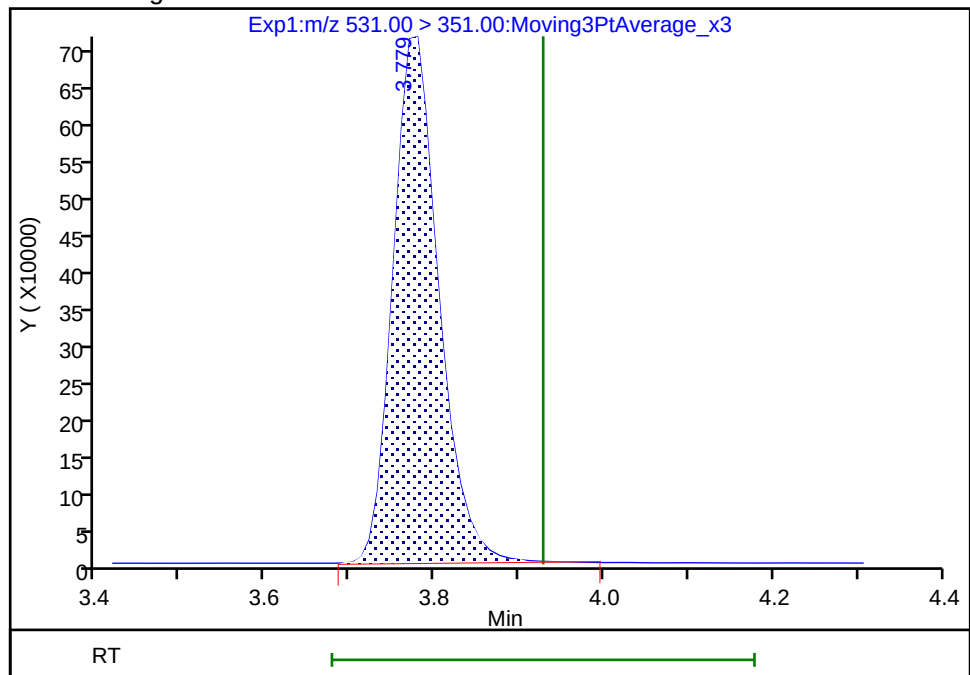
RT: 3.78
Area: 2687388
Amount: 0.955665
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 2679781
Amount: 0.952959
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

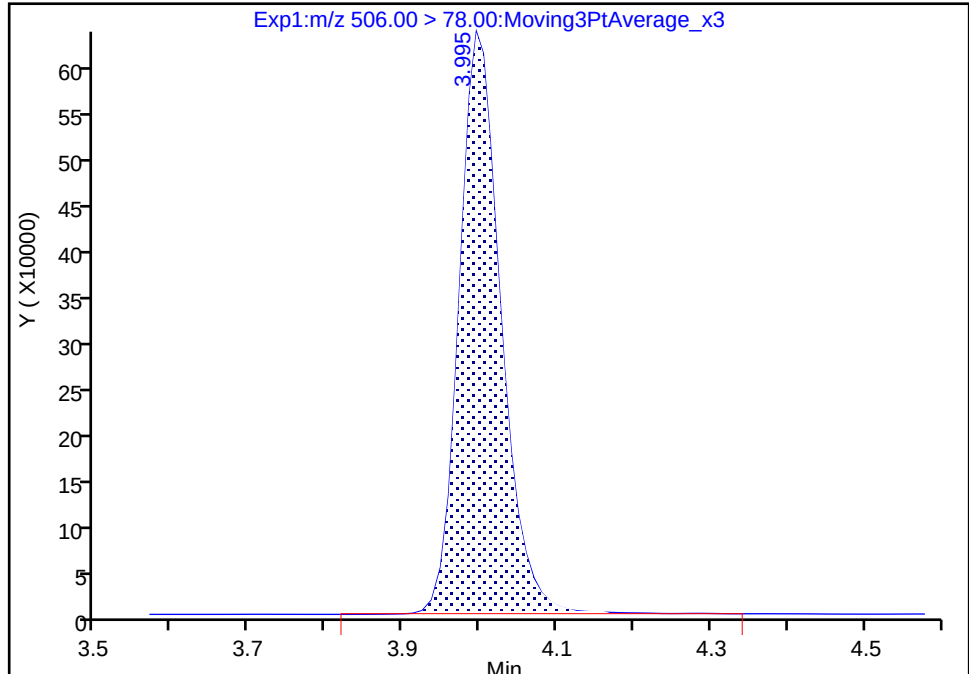
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

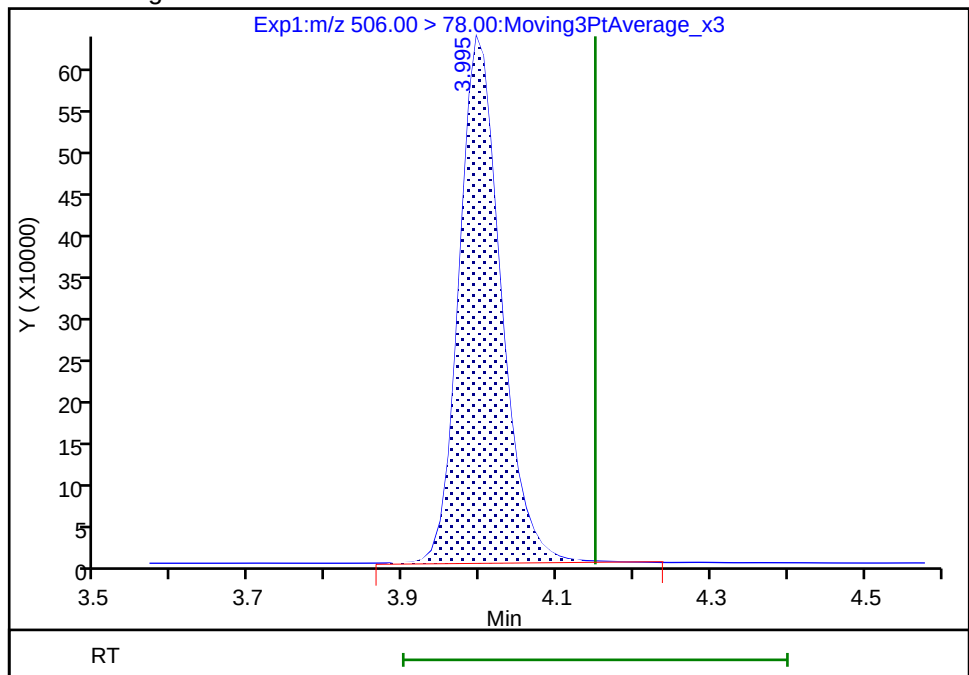
RT: 4.00
Area: 2400400
Amount: 1.231300
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 2392361
Amount: 1.227177
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:07:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

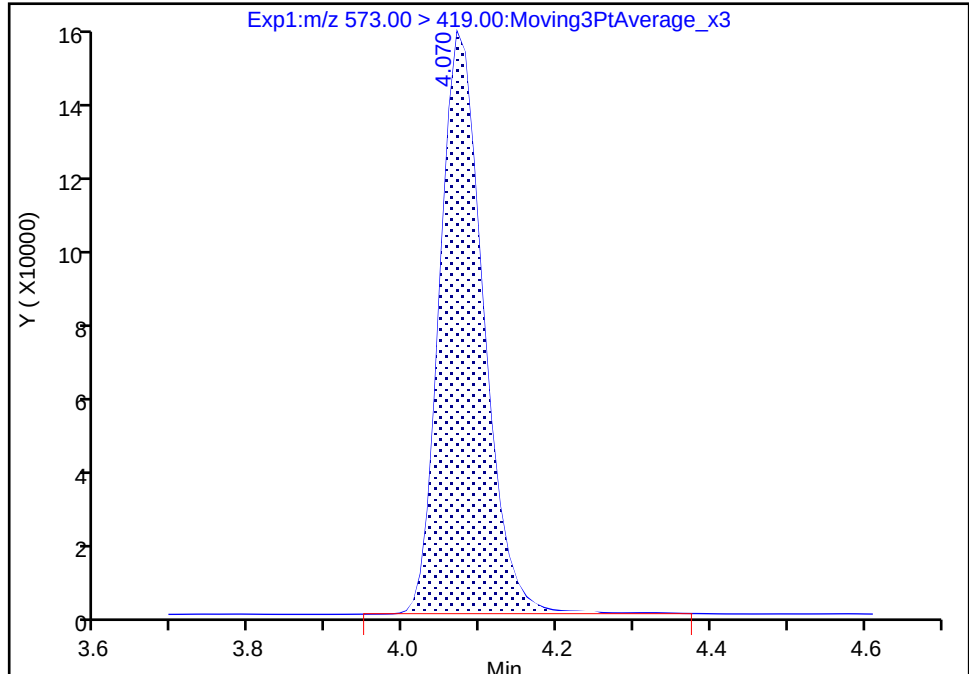
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

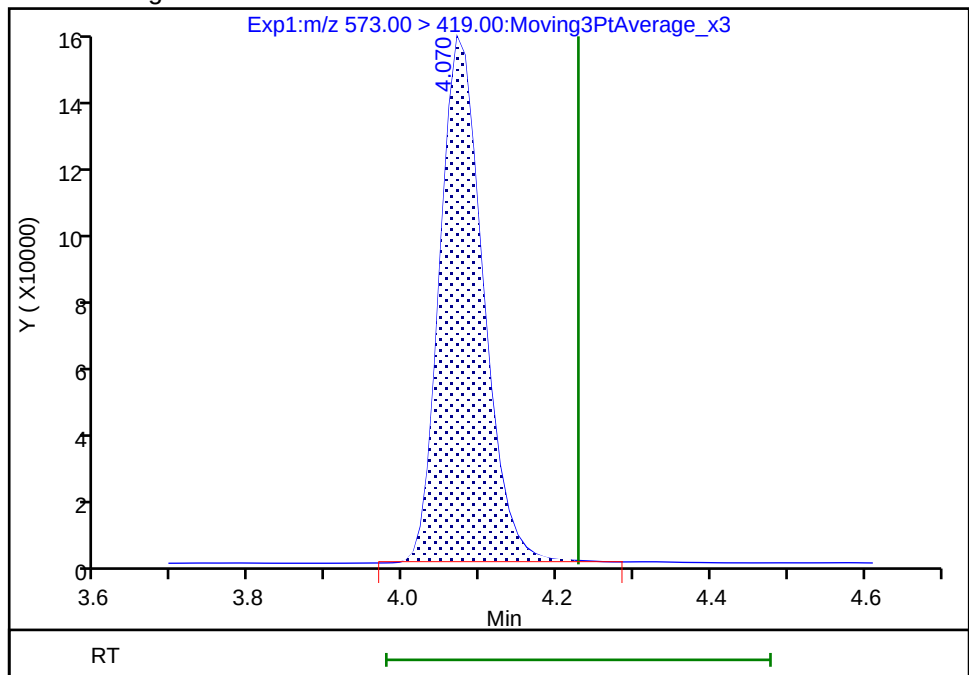
RT: 4.07
Area: 614477
Amount: 1.269157
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 611622
Amount: 1.263260
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:07:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

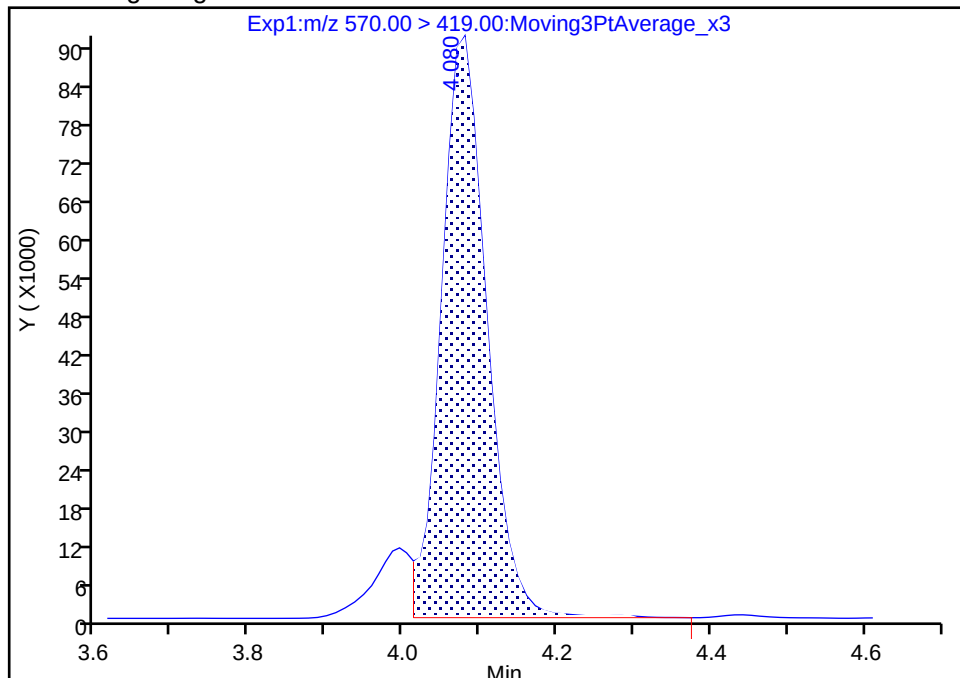
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

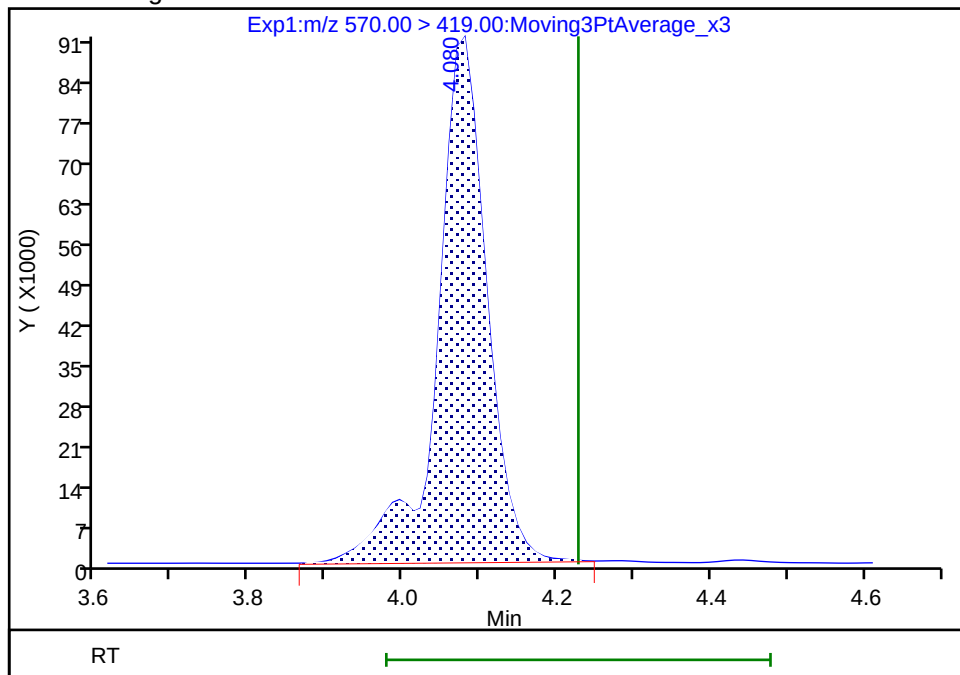
RT: 4.08
Area: 376620
Amount: 0.883137
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 408086
Amount: 0.957893
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

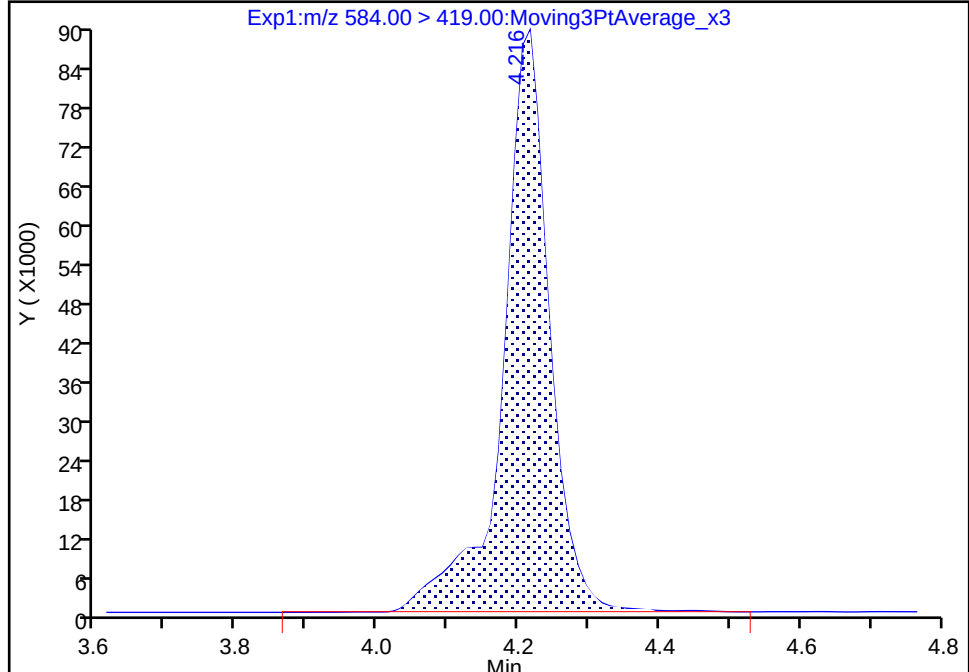
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

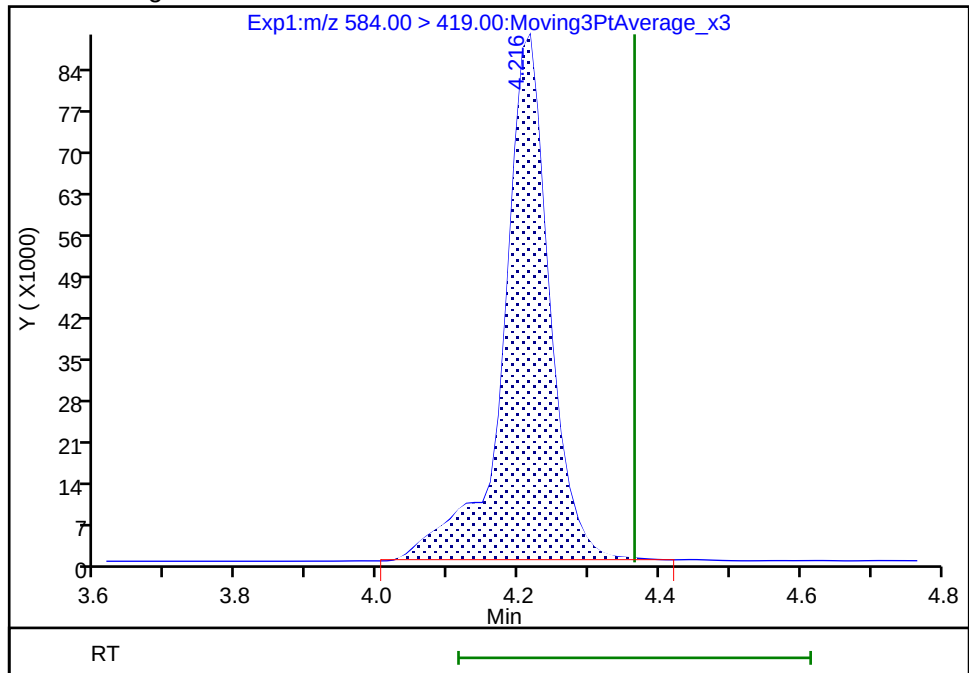
RT: 4.22
Area: 411784
Amount: 0.953018
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 408043
Amount: 0.944360
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

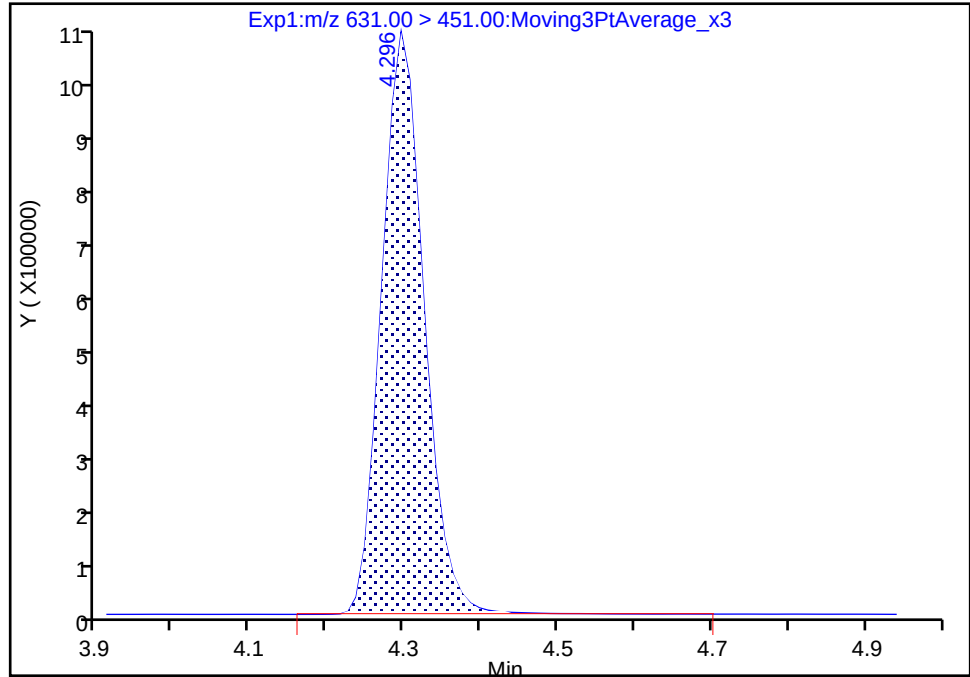
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

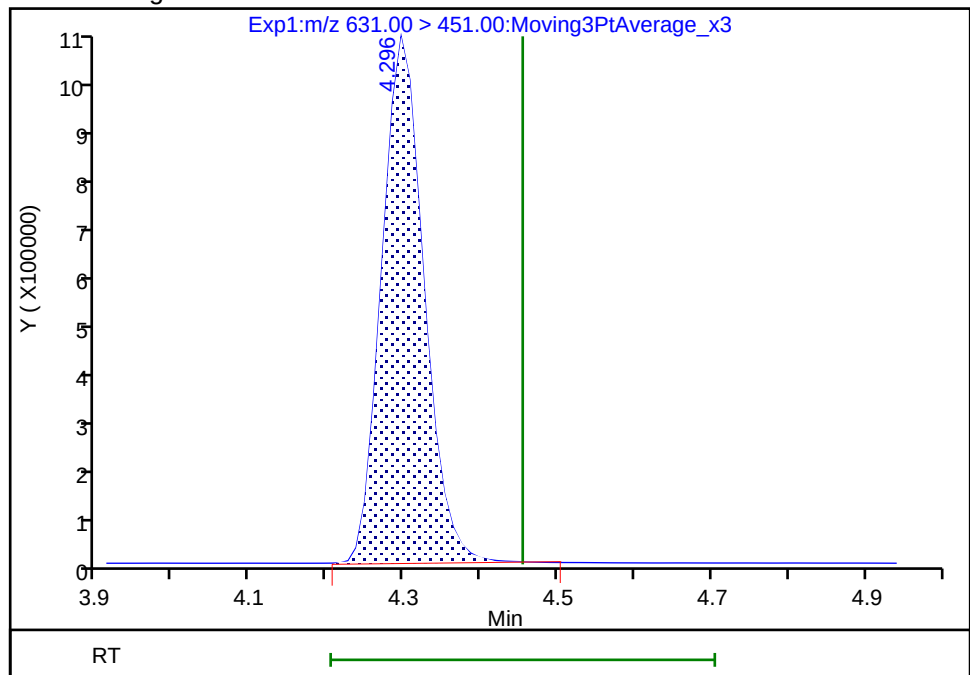
RT: 4.30
Area: 3991142
Amount: 0.920717
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 3973663
Amount: 0.916685
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

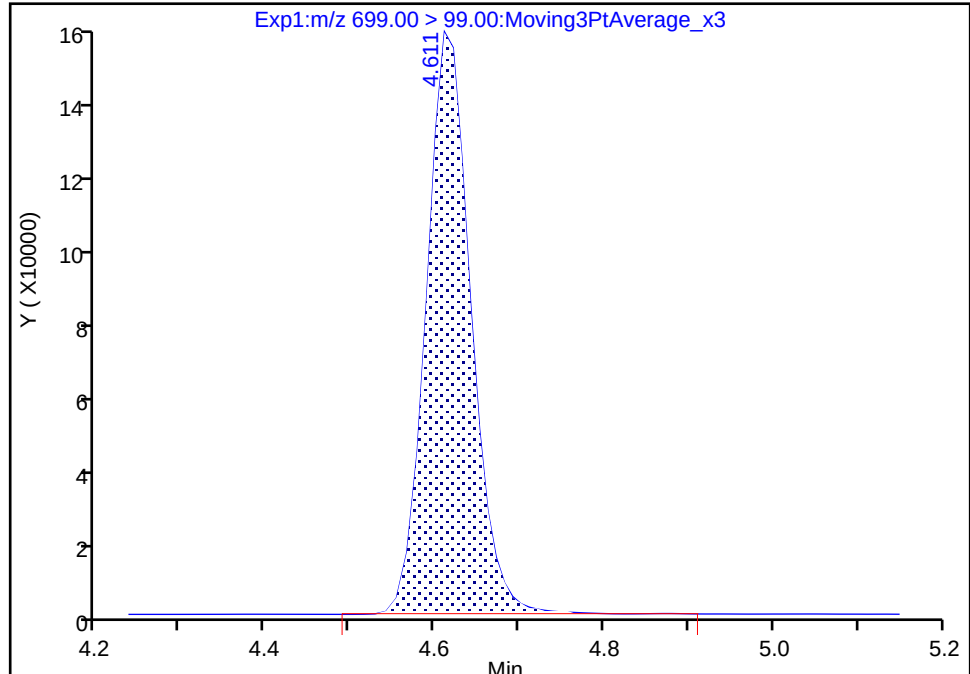
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

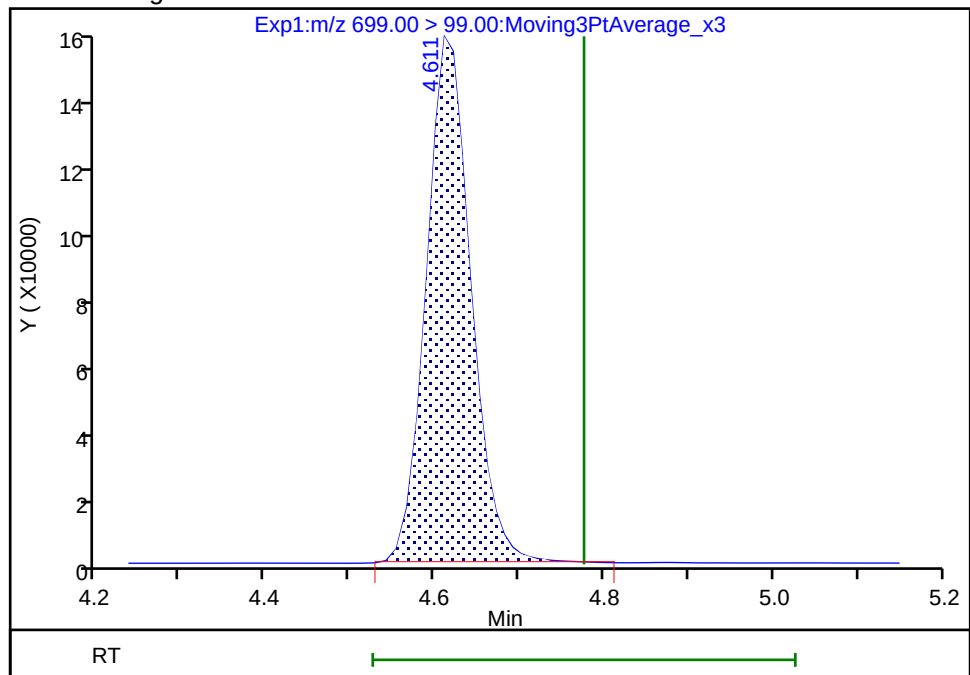
RT: 4.61
Area: 568848
Amount: 0.956222
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 566770
Amount: 0.956222
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

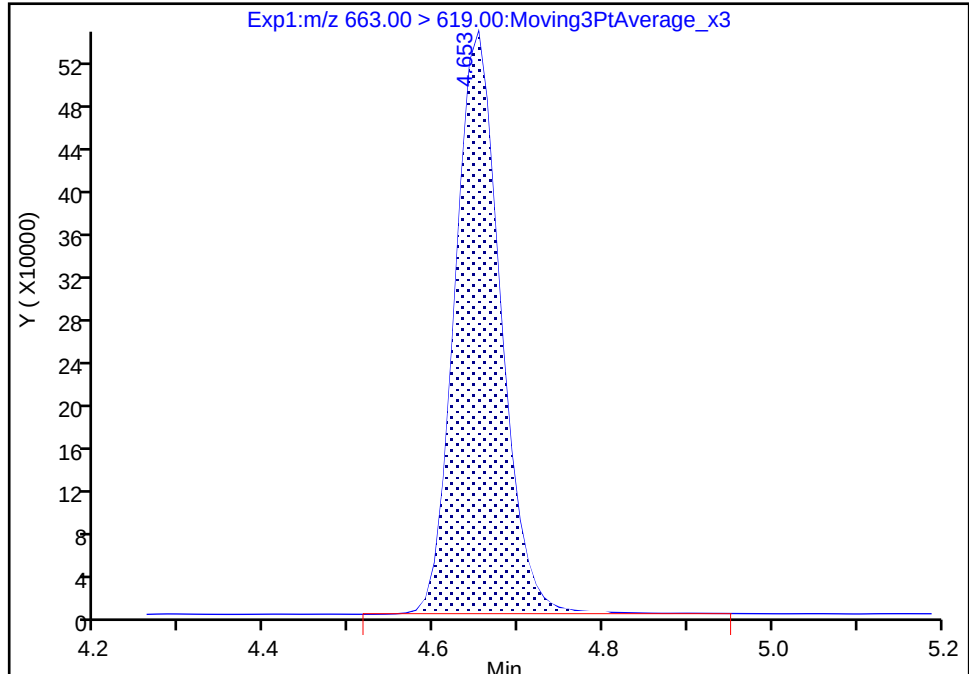
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

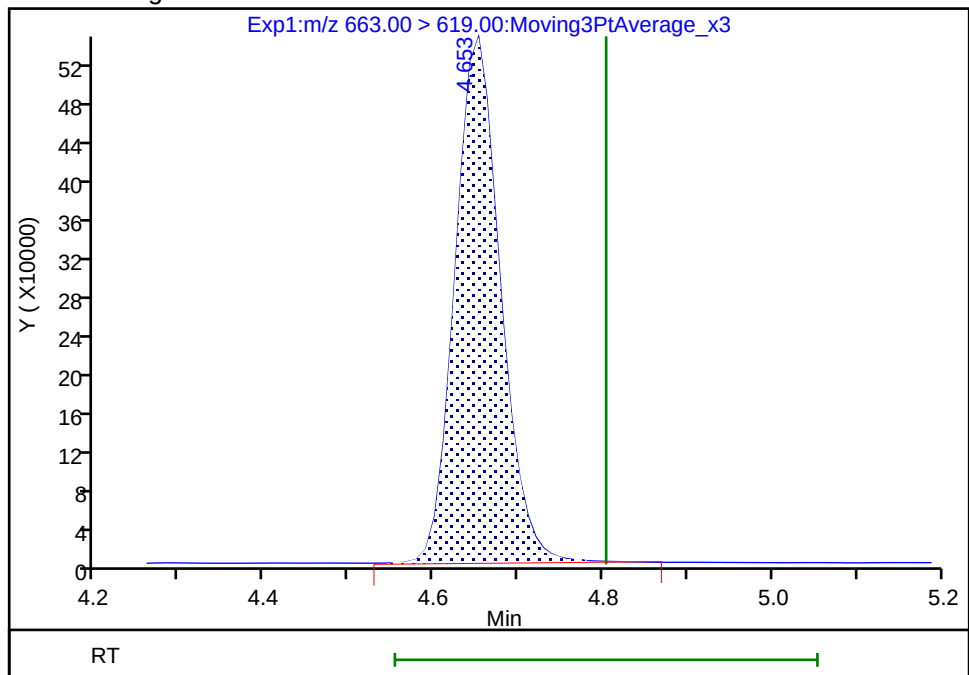
RT: 4.65
Area: 2023582
Amount: 0.833348
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 2019721
Amount: 0.831758
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

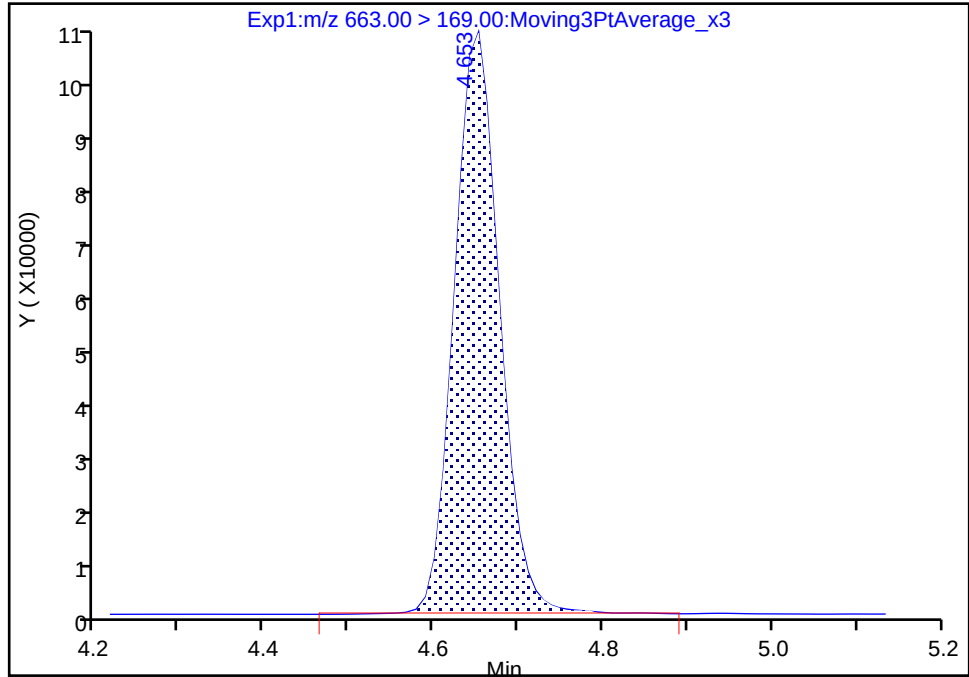
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

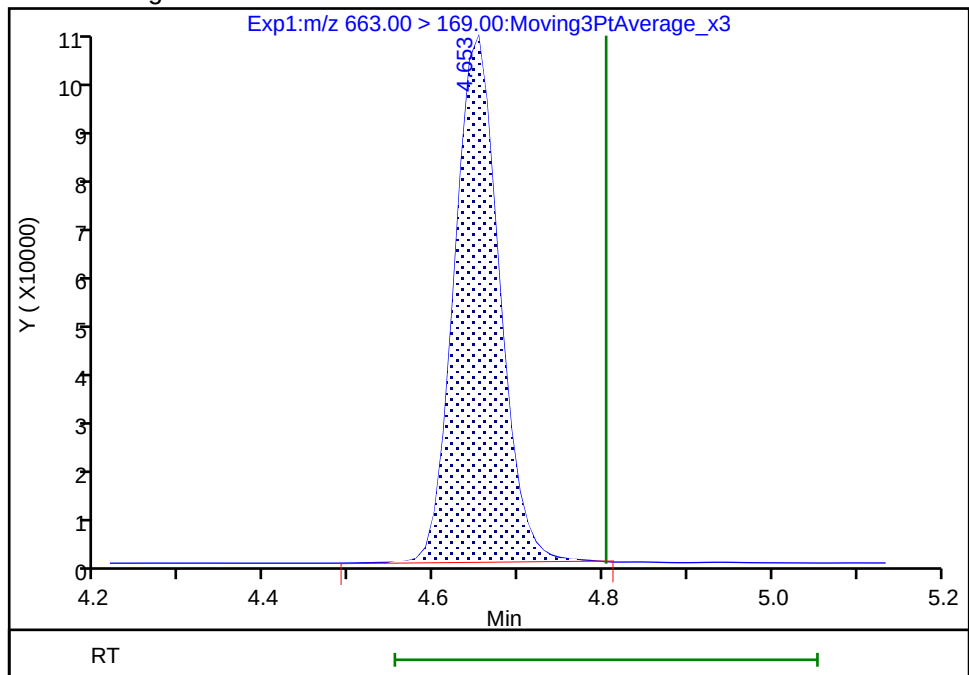
RT: 4.65
Area: 377235
Amount: 0.833348
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 375156
Amount: 0.831758
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

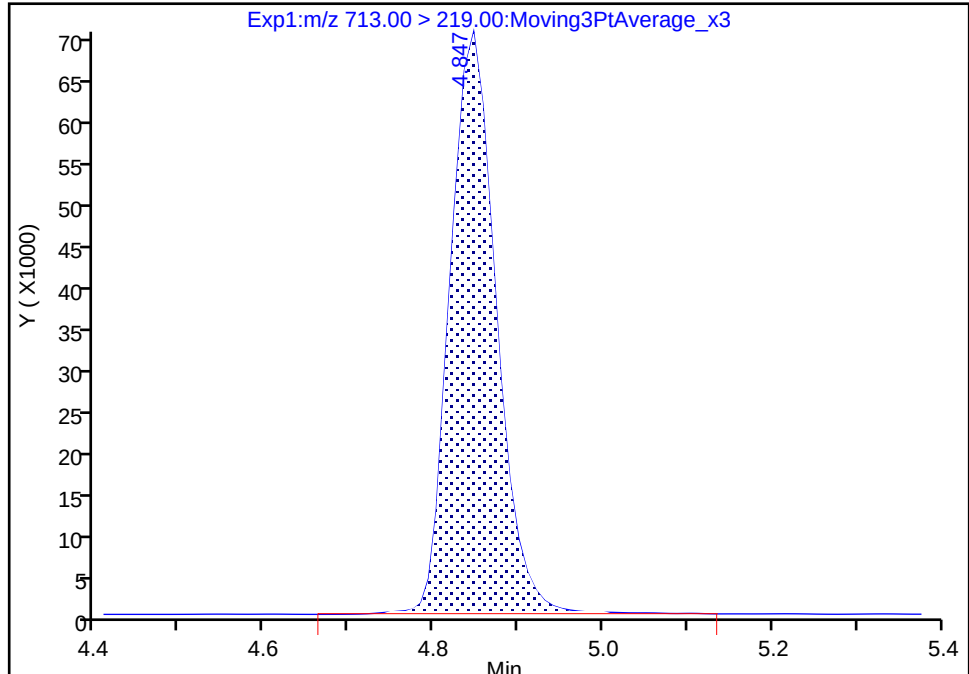
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

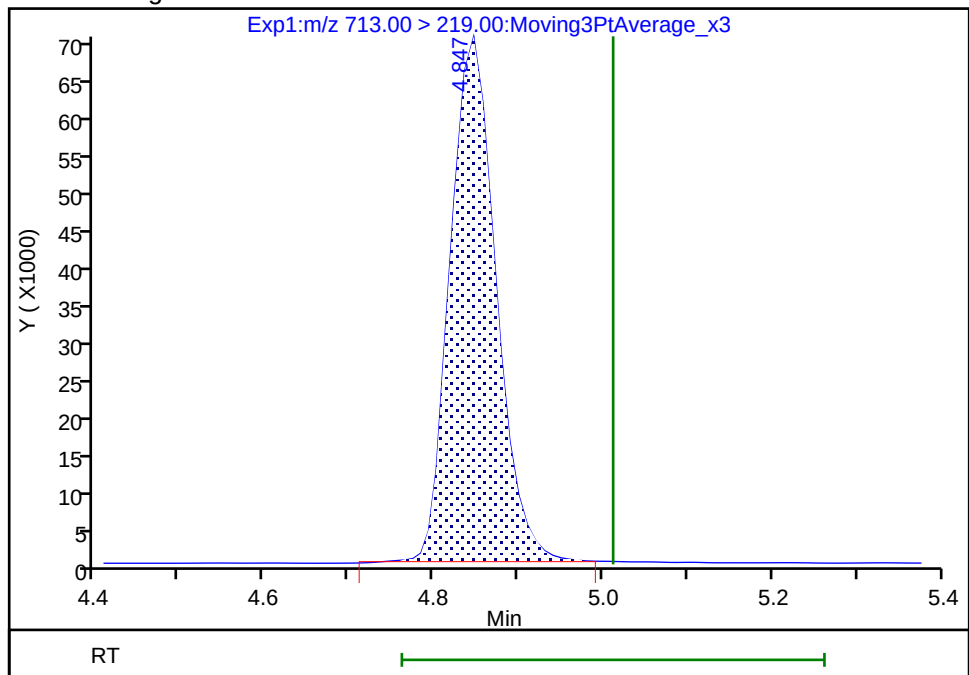
RT: 4.85
Area: 269544
Amount: 0.898903
Amount Units: ng/ml

Processing Integration Results



RT: 4.85
Area: 266375
Amount: 0.898903
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

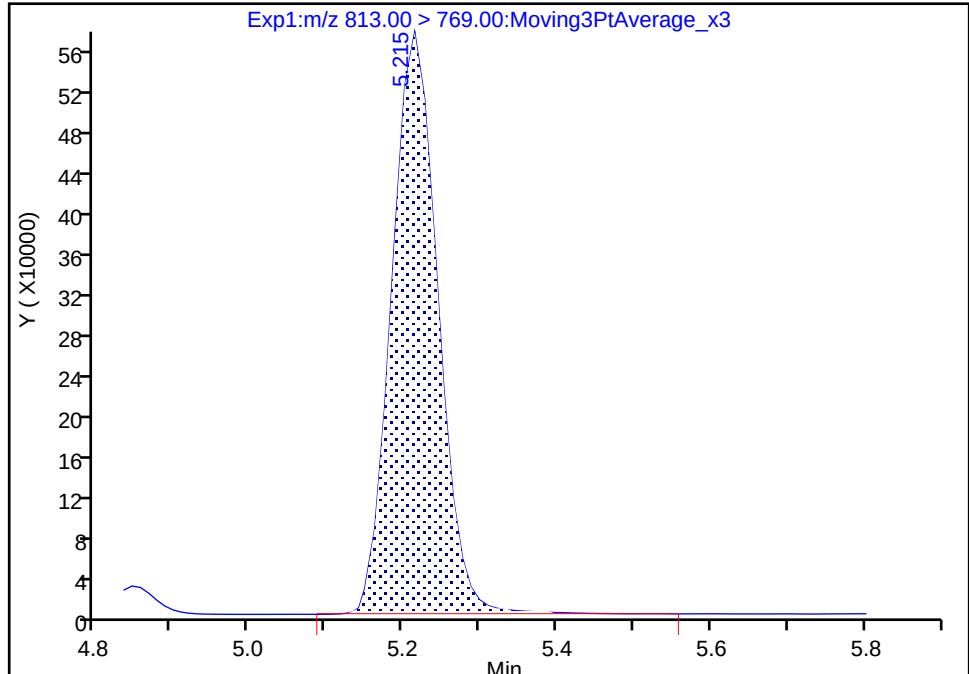
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

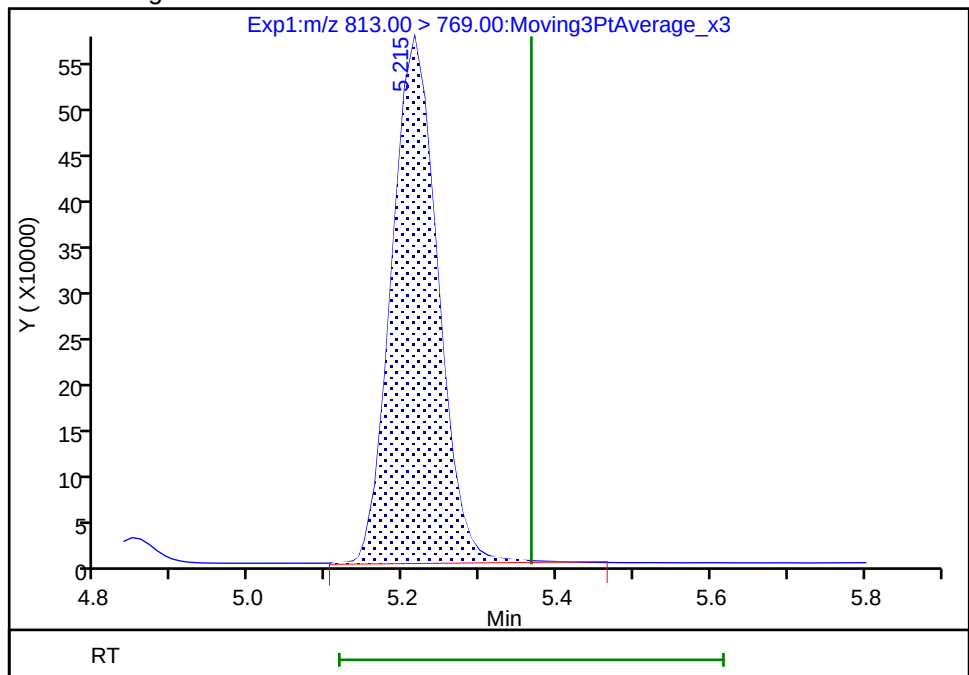
RT: 5.21
Area: 2402719
Amount: 0.969106
Amount Units: ng/ml

Processing Integration Results



RT: 5.21
Area: 2396569
Amount: 0.966582
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

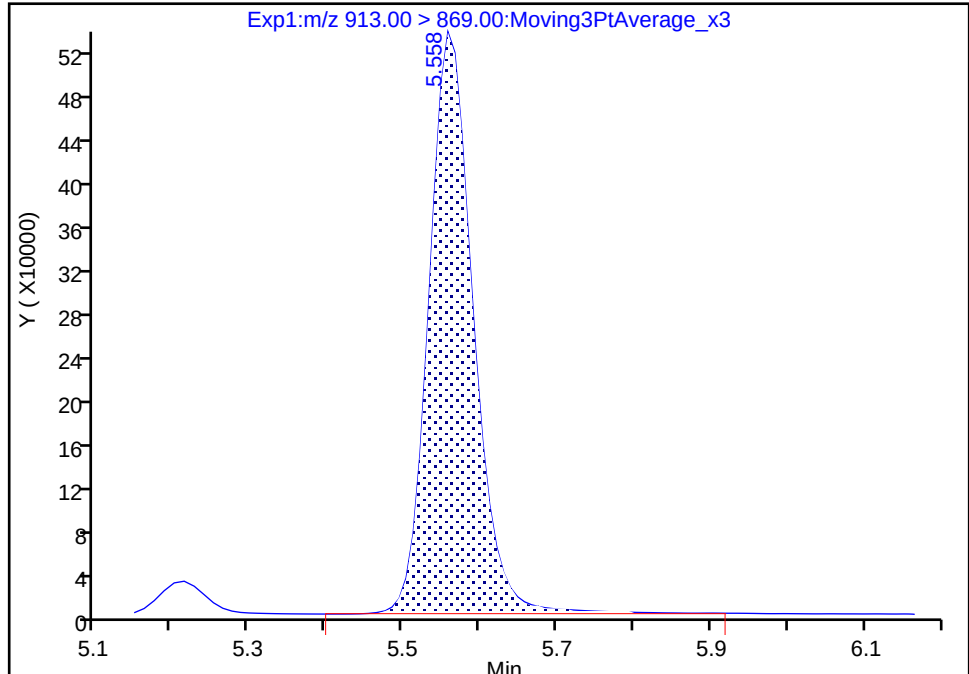
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C24.d
Injection Date: 31-Dec-2022 01:33:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

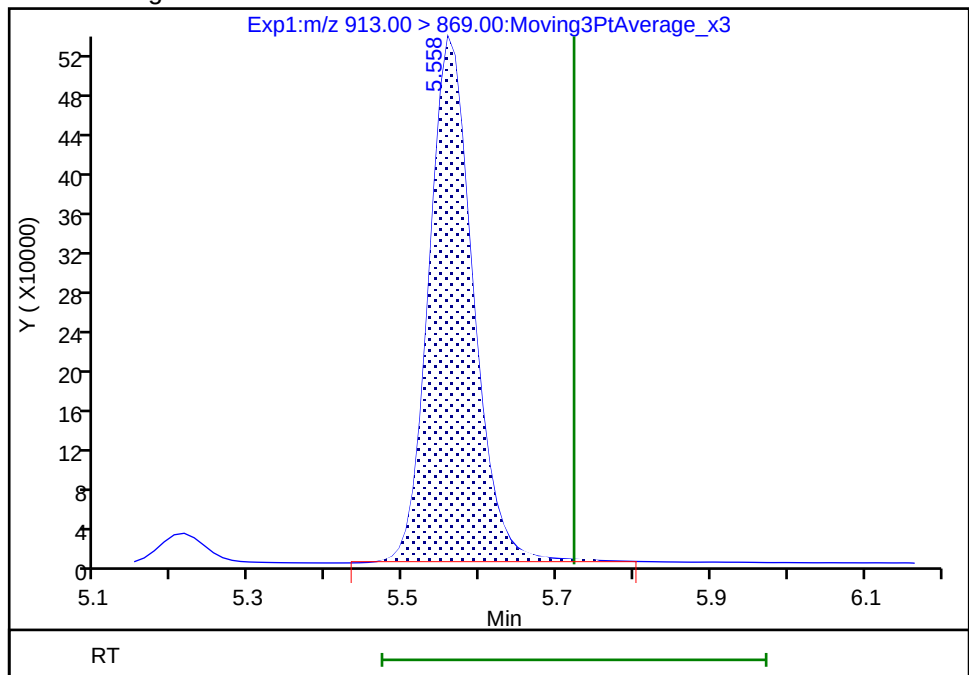
RT: 5.56
Area: 2153098
Amount: 0.986652
Amount Units: ng/ml

Processing Integration Results



RT: 5.56
Area: 2138227
Amount: 0.979838
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:10:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-187080/1-A

Matrix: Solid Lab File ID: PA221230A06.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05

Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 13:25

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.50	U	0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083
27619-97-2	6:2 FTS	2.00	U	2.00	0.057
39108-34-4	8:2 FTS	2.00	U	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187080/1-A
 Matrix: Solid Lab File ID: PA221230A06.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 13:25
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	91		50-150
STL00995	13C5 PFNA	91		50-150
STL00992	13C4 PFBA	81		50-150
STL00993	13C2 PFHxA	89		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	82		50-150
STL00994	18O2 PFHxS	91		50-150
STL00998	13C2 PFDoA	76		50-150
STL00991	13C4 PFOS	85		50-150
STL01056	13C8 FOSA	68		50-150
STL01893	13C5 PFPeA	83		50-150
STL02116	13C2 PFTeDA	91		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	77		50-150
STL02279	M2-6:2 FTS	109		50-150
STL02337	13C3 PFBS	89		50-150
STL02280	M2-8:2 FTS	91		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
 Lims ID: MB 200-187080/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Dec-2022 13:25:52 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187080/1-A
 Misc. Info.: 200-0053865-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 08:56:53

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.076	2.076	0.0	0.602	2574972	1.01		80.7	7921	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	85667	0.0403			6.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.387	-0.014	0.688	2010418	1.03		82.7	3187	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.387	-0.014	1.000	12519	0.007142			0.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.386	2.400	-0.014	0.692	2176208	1.03		88.6	146719	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.006	2577	0.001203	Target=2.09		3.9	M
298.90 > 99.00	2.400	2.400	0.0	1.006	1397		1.84(1.04-3.13)		0.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.677	2.689	-0.012	0.995	293	0.000492			4.2	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.689	2.689	0.0	0.780	225574	1.21		104	228	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2257656	1.11		88.7	3817	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.810	2.835	-0.025	0.991	213	0.000626			2.1	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	402964	1.12		89.7	1481	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1661895	1.08		91.3	1786	

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	3.087	3.088	-0.001	1.000	6086	0.003837	Target=3.66	17.2		M
399.00 > 99.00	3.087	3.088	-0.001	1.000	1819		3.35(1.83-5.49)	3.1		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.896	2371204	1.13		90.5	2344	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.099	3.099	0.0	1.004	5725	0.002772	Target=3.97	1.2		RM
363.00 > 169.00	3.087	3.099	-0.012	1.000	922		6.21(1.98-5.95)	1.6		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.439	-0.009	0.995	335039	1.30		109	774	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.439	-0.009	1.000	2320	-0.007980		2.7		
D 14 13C4 PFOA										
417.00 > 372.00	3.447	3.448	-0.001	1.000	2669166	1.13		90.6	4099	
* 62 13C2 PFOA										
415.00 > 370.00	3.447	3.448	-0.001		2844836	1.25		6159		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.439	3.448	-0.009	0.997	9545	0.004181	Target=2.79	0.5		M
413.00 > 169.00	3.447	3.448	-0.001	1.000	2366		4.03(1.40-4.19)	2.6		M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.089	1063376	1.02		85.2	4623	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.773	3.764	0.009	1.005	4904	0.004532	Target=5.11	4.1		M
499.00 > 99.00	3.754	3.764	-0.010	1.000	891		5.50(2.55-7.66)	2.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.094	2596956	1.13		90.8	4409	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.940	3.928	0.012	1.050	920	0.000370		4.5		M
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.081	-0.010	1.181	2747745	1.18		94.2	2982	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.081	4.081	0.0	1.003	3349	0.001405	Target=10.26	1.0		M
513.00 > 169.00	4.071	4.081	-0.010	1.000	333		10.06(5.13-15.38)	1.1		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	343130	1.09		90.8	1266	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	1814	0.003915		25.7		M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1617191	0.8456		67.7	3247	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.223	464201	0.9774		78.2	3568	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.249	4.228	0.021	1.008	565	-0.009858		1.3		
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.353	-0.011	1.259	2188751	1.02		82.0	3954	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.365	0.011	1.005	920	0.002859		3.2		

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	4.353	4.365	-0.012	1.263	449377	0.9609		76.9	1060	
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.443	4.454	-0.011	1.183	1225	0.000320			6.2	M
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.591	4.591	0.0	1.002	2852	0.001624	Target=7.77		0.4	RM
613.00 > 169.00	4.579	4.591	-0.012	1.000	175		16.30(3.89-11.66)		2.1	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.579	4.591	-0.012	1.328	2072444	0.9523		76.2	5325	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.591	4.612	-0.021	1.125	285	0.001024			8.8	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.981	5.012	-0.031	0.998	448	0.001903	Target=0.89		4.2	M
713.00 > 219.00	4.991	5.012	-0.021	1.000	473		0.95(0.44-1.33)		7.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.991	5.012	-0.021	1.448	2149998	1.14		91.4	5277	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.344	5.367	-0.023	1.000	27553	-0.003501	Target=5.65		3.5	M
813.00 > 169.00	5.344	5.367	-0.023	1.000	4156		6.63(2.82-8.47)		32.5	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.550	2758472	1.19		94.8	3092	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

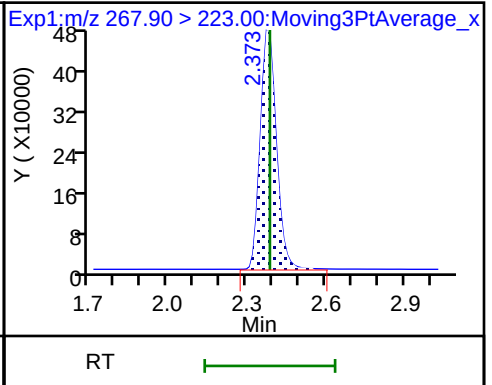
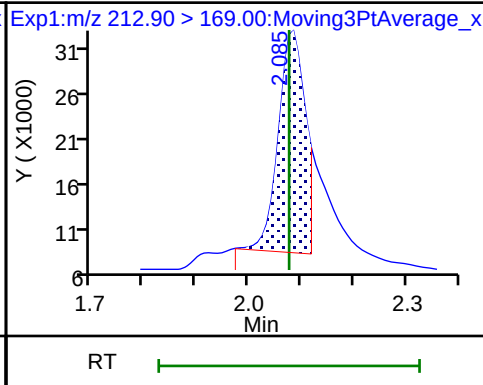
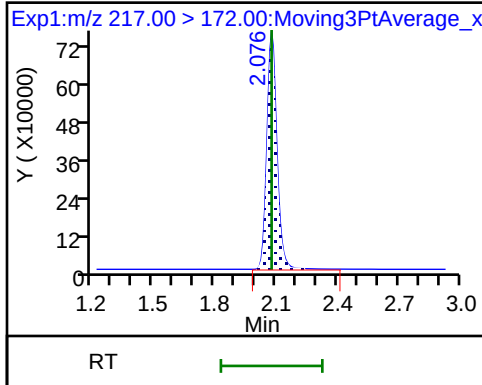
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

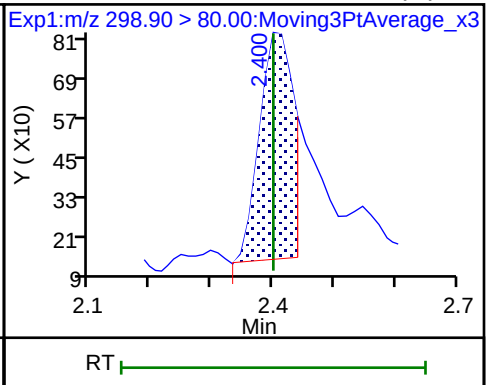
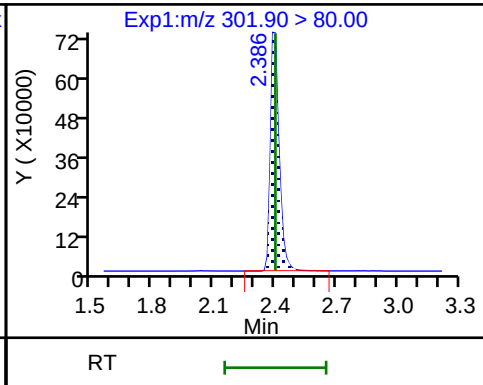
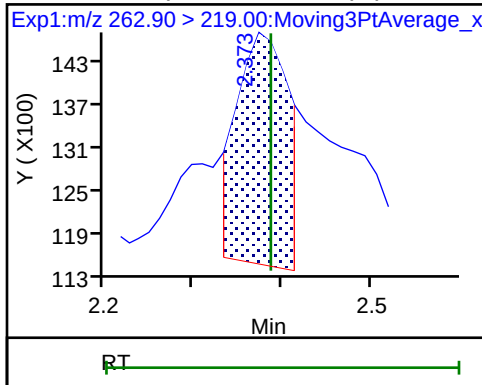
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

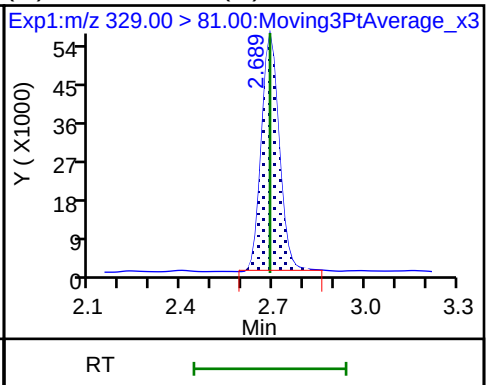
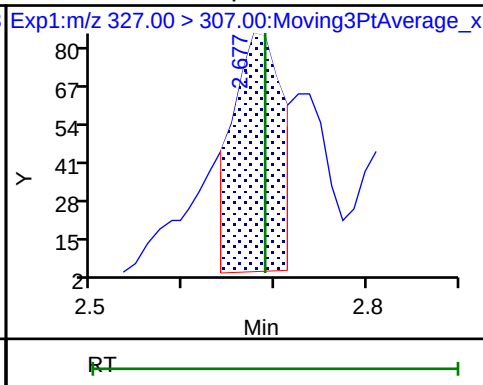
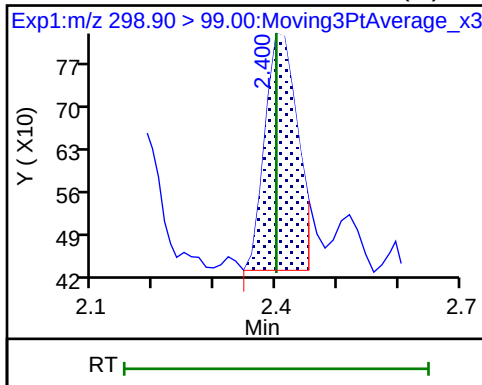
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

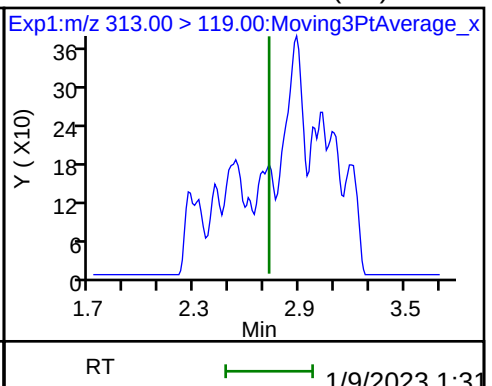
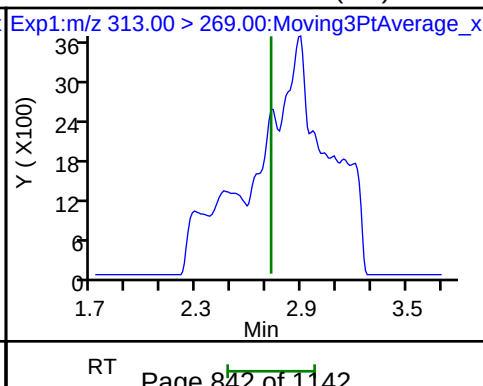
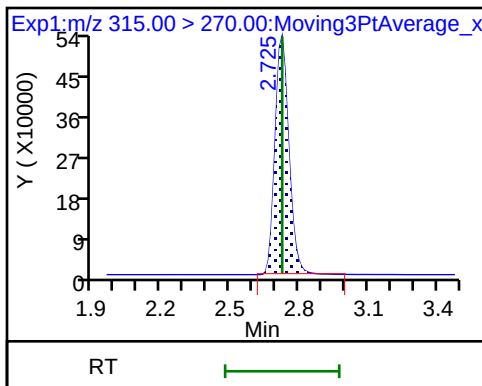
D 50 M2-4:2 FTS (M)



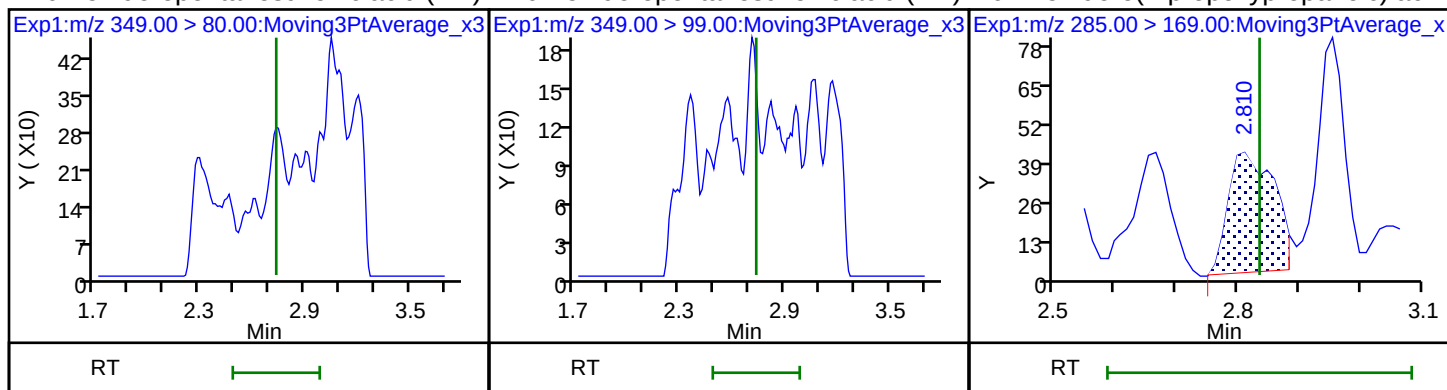
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



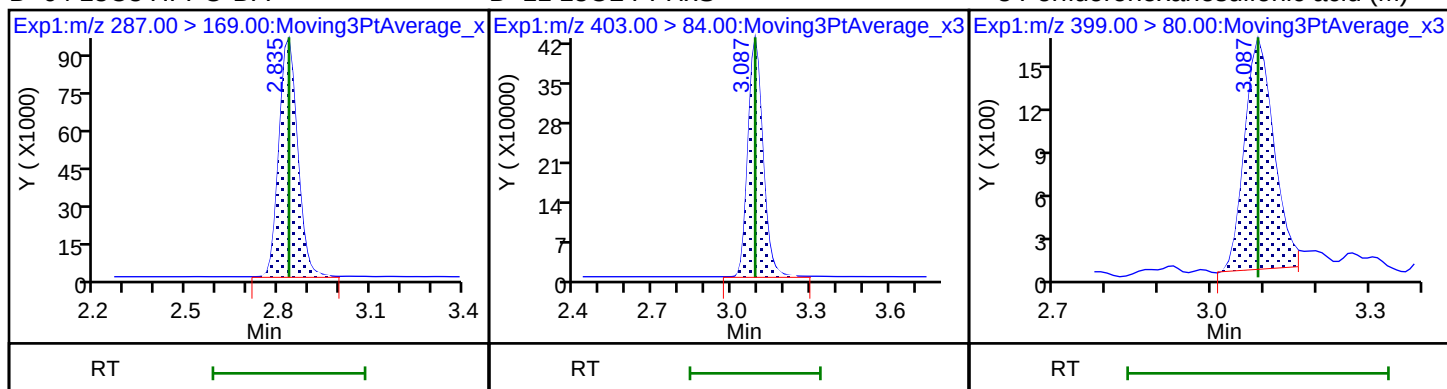
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

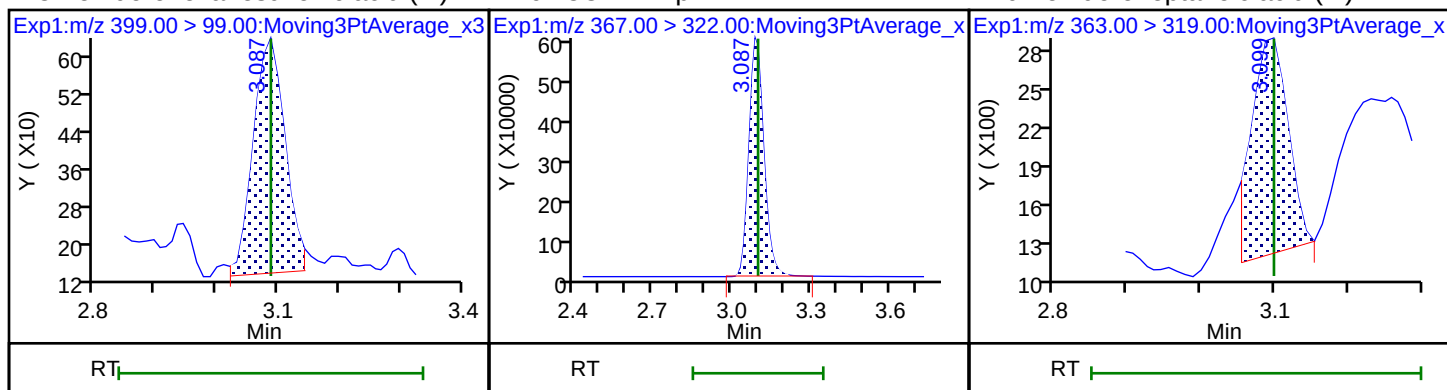
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

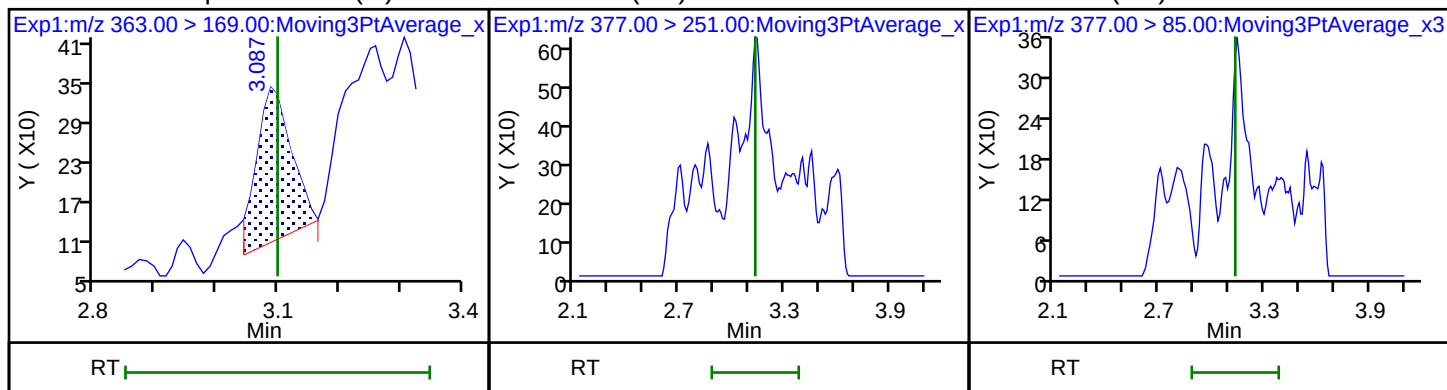
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

77 DONA (ND)

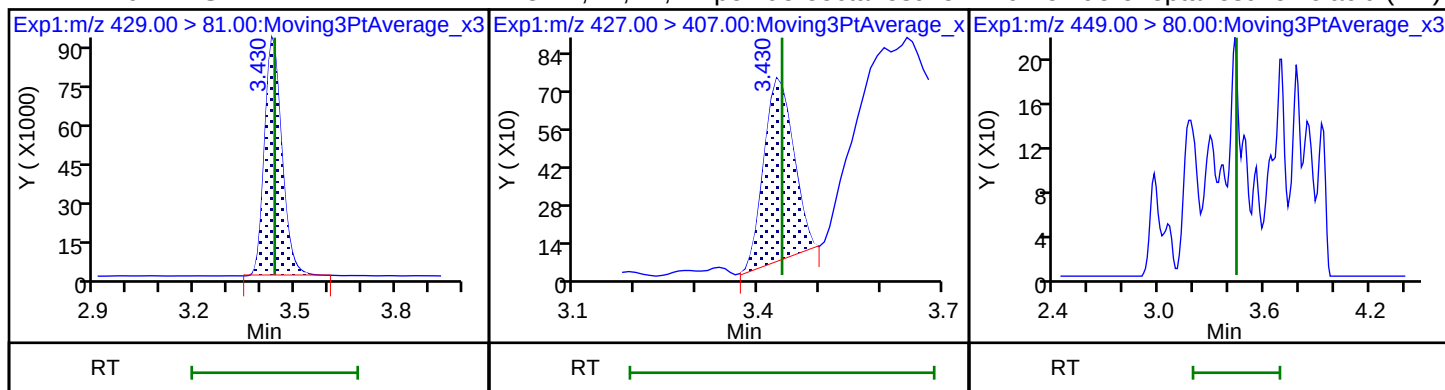
77 DONA (ND)



D 12 M2-6:2 FTS

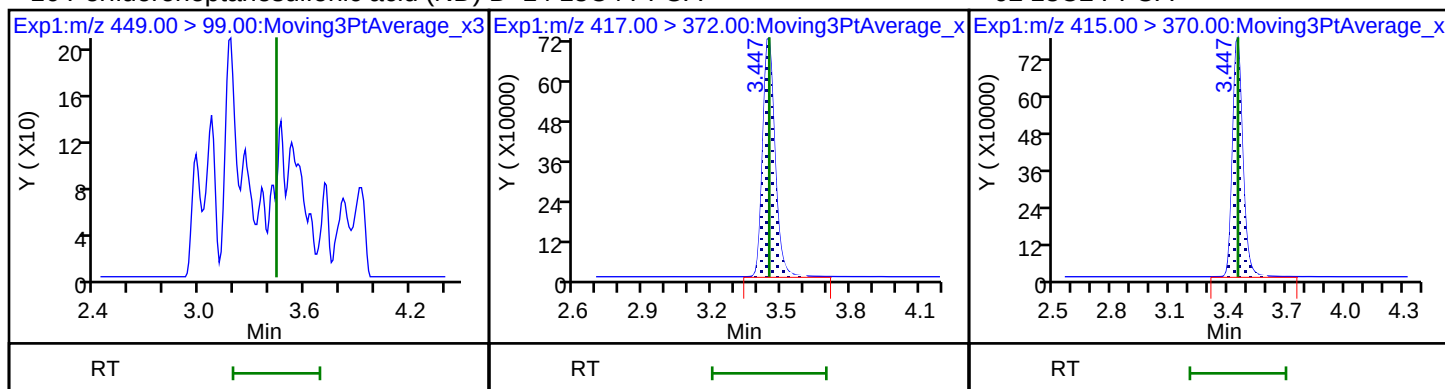
13 1H,1H,2H,2H-perfluorooctanesulfo

16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

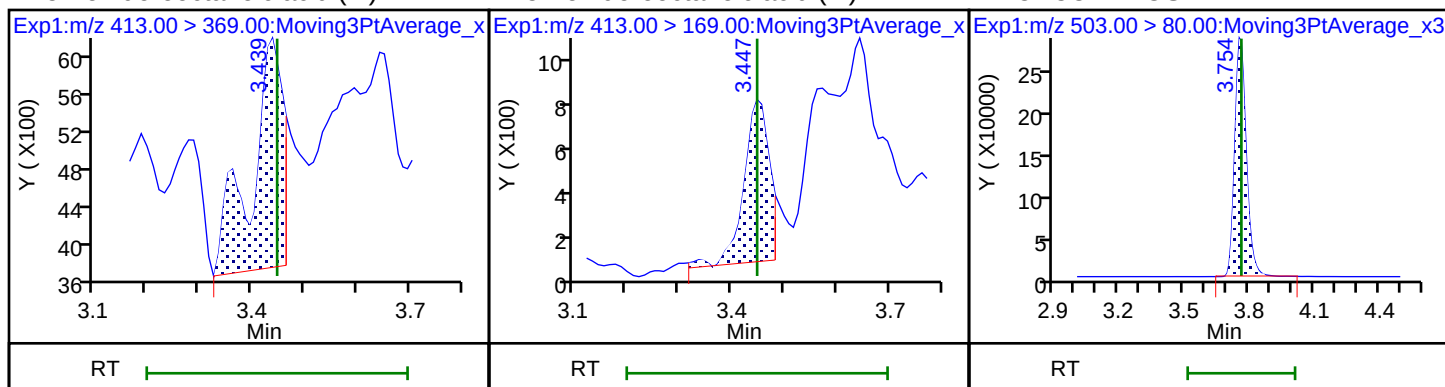
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

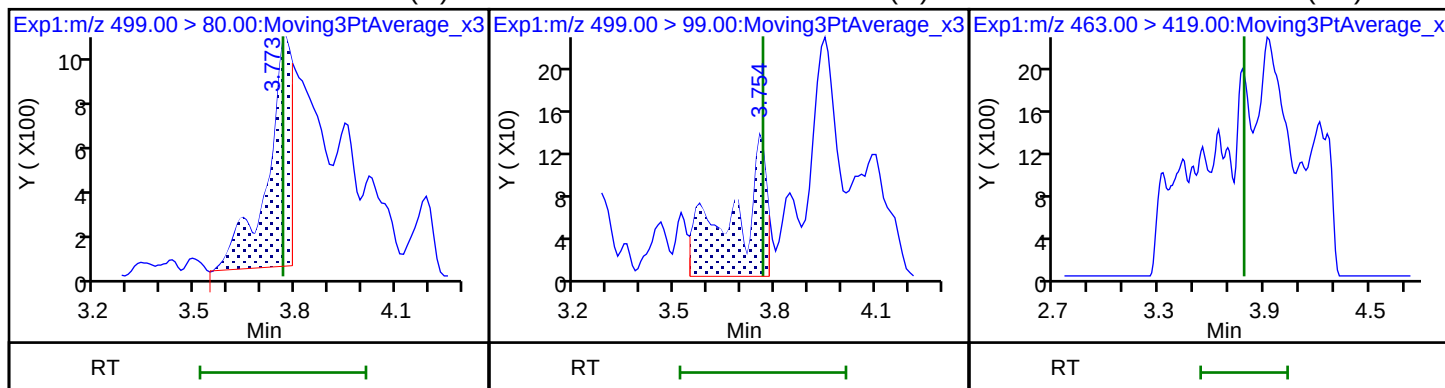
D 18 13C4 PFOS

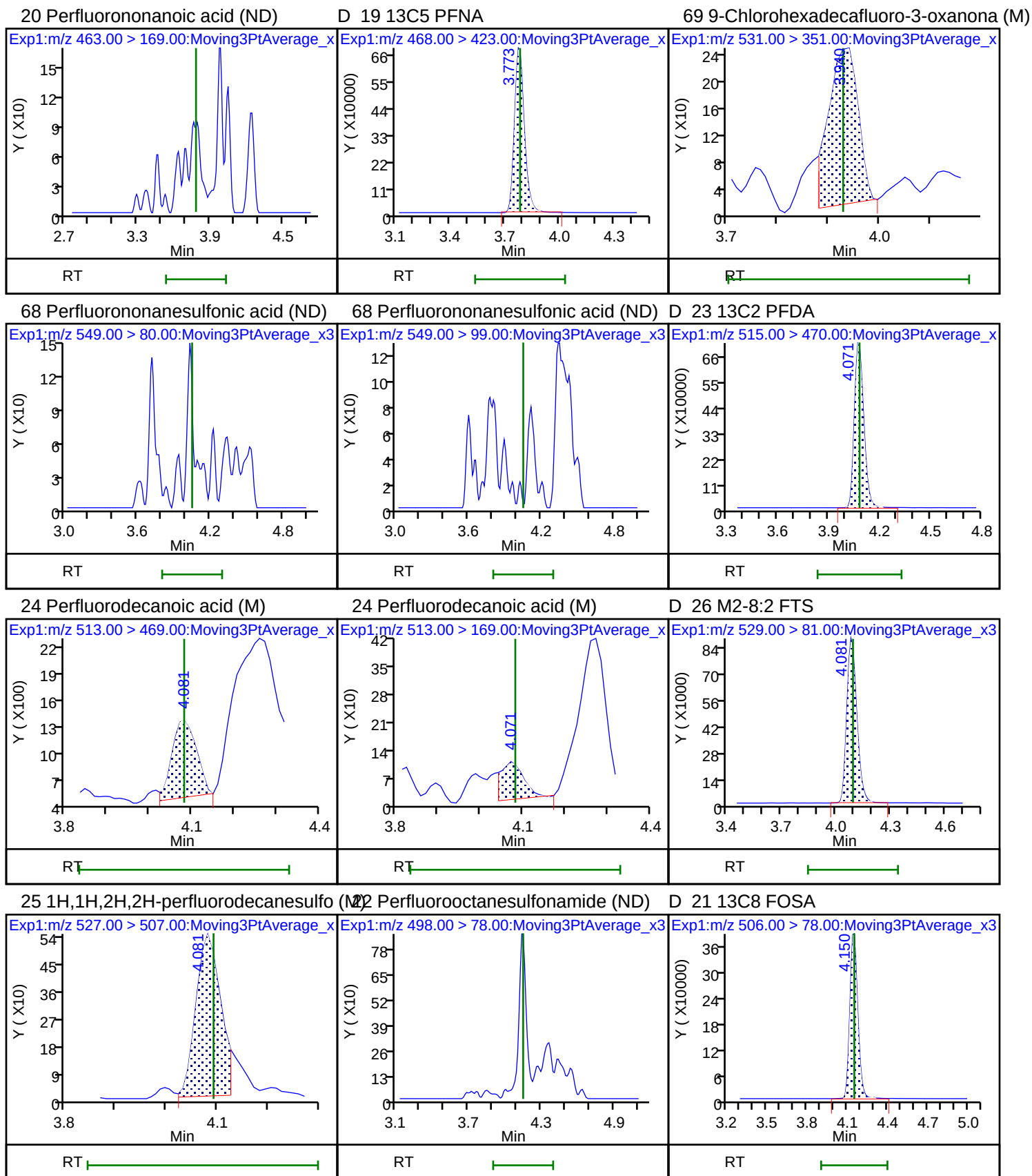


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

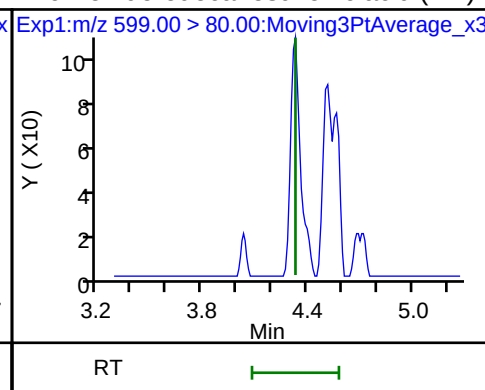
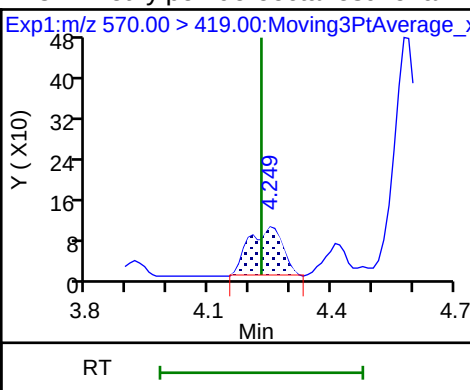
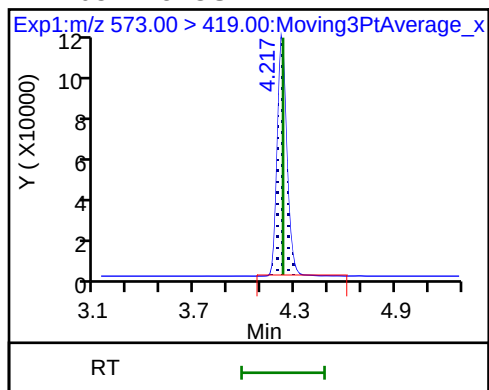




D 27 d3-NMeFOSAA

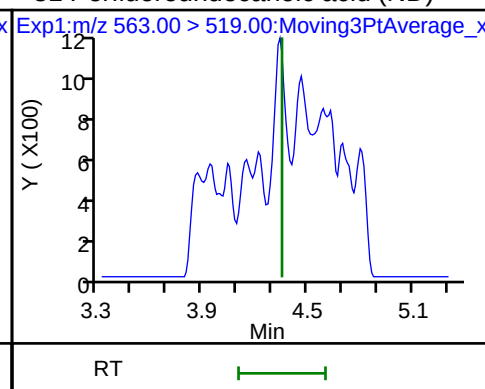
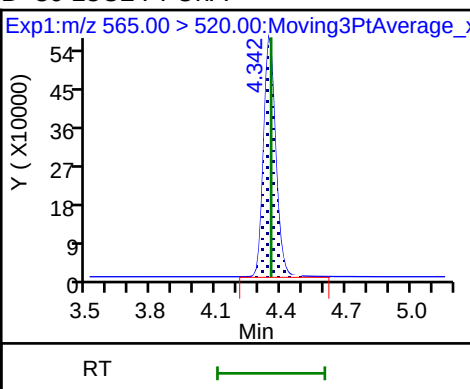
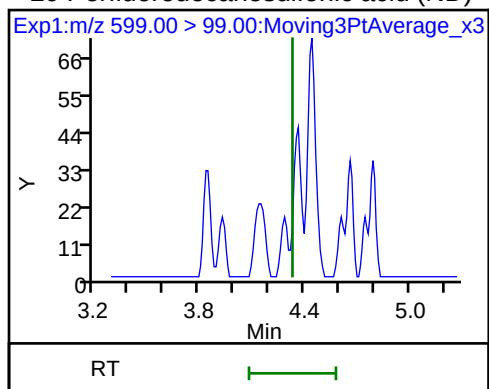
28 N-methylperfluorooctanesulfonami

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

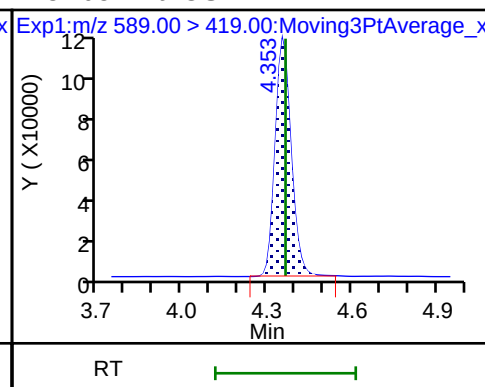
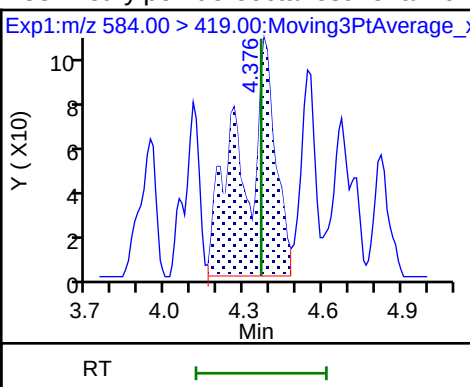
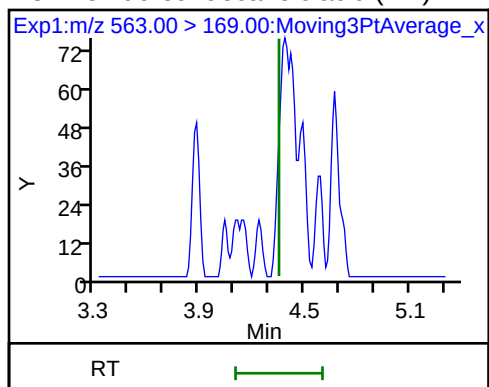
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid

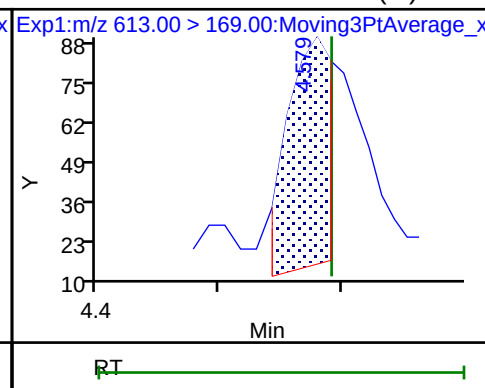
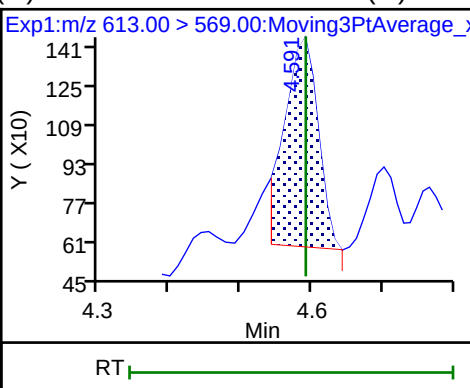
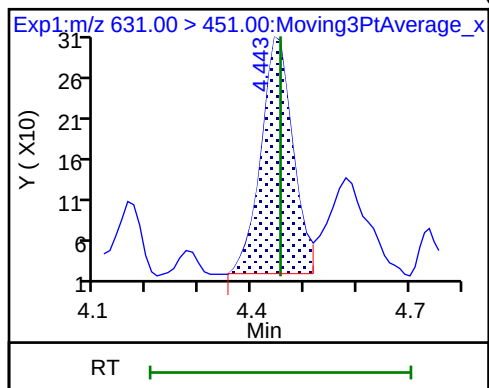
D 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

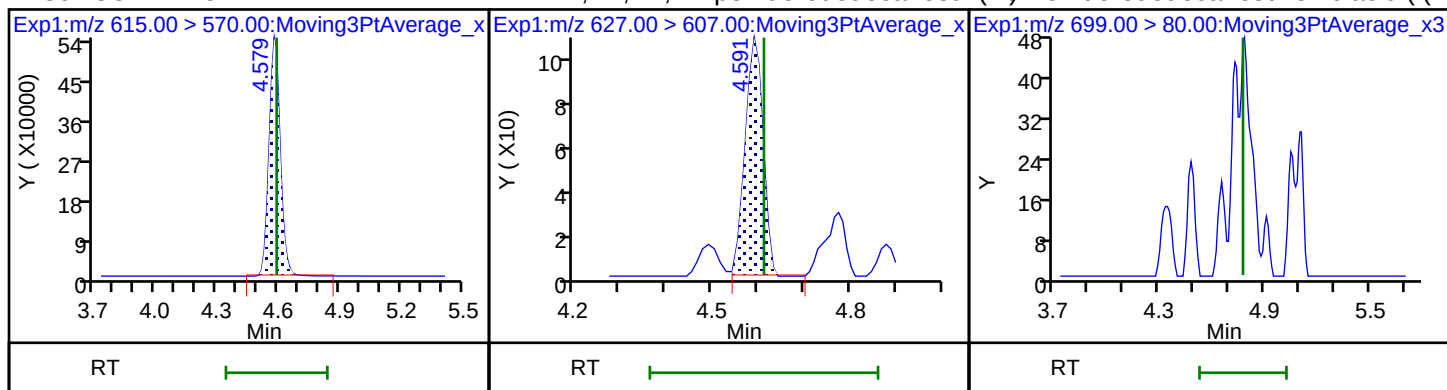
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



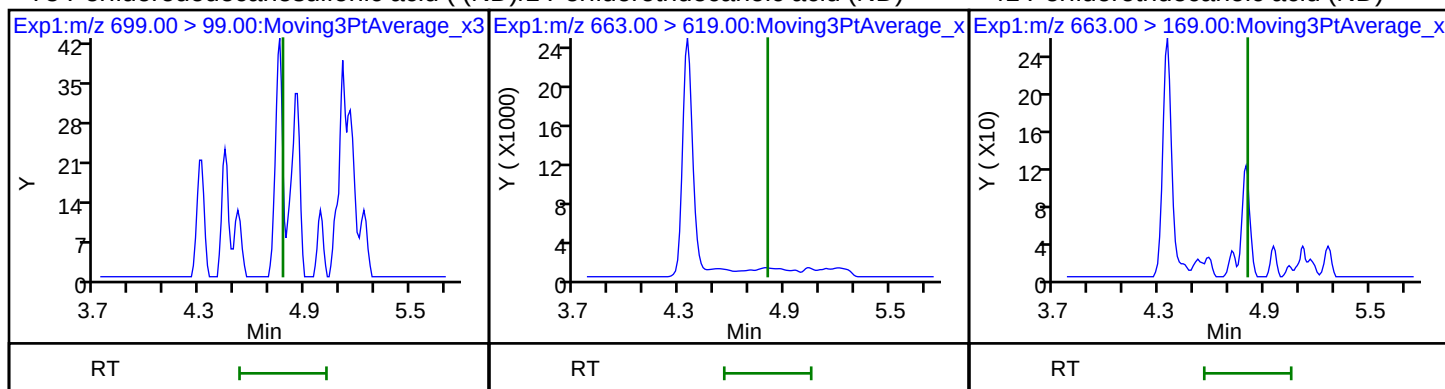
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

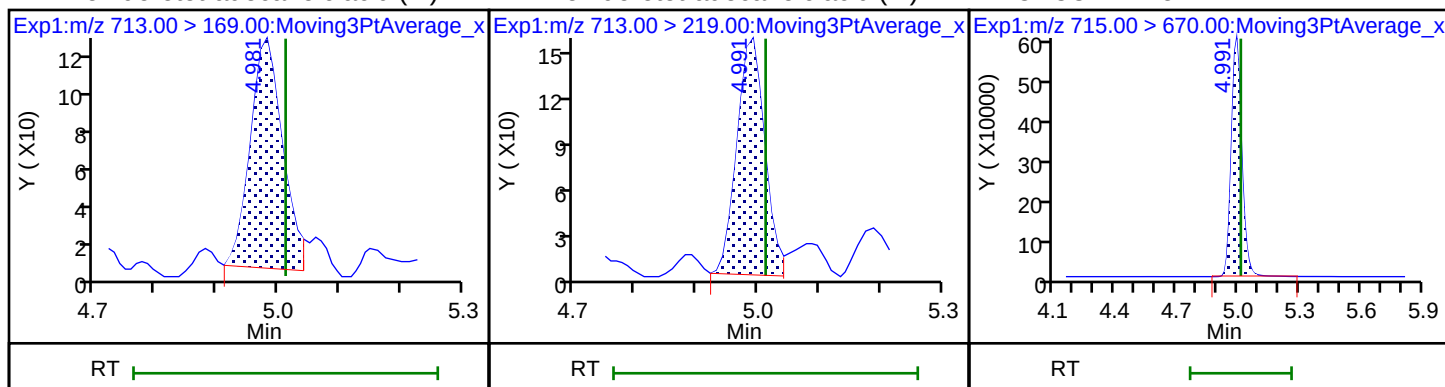
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

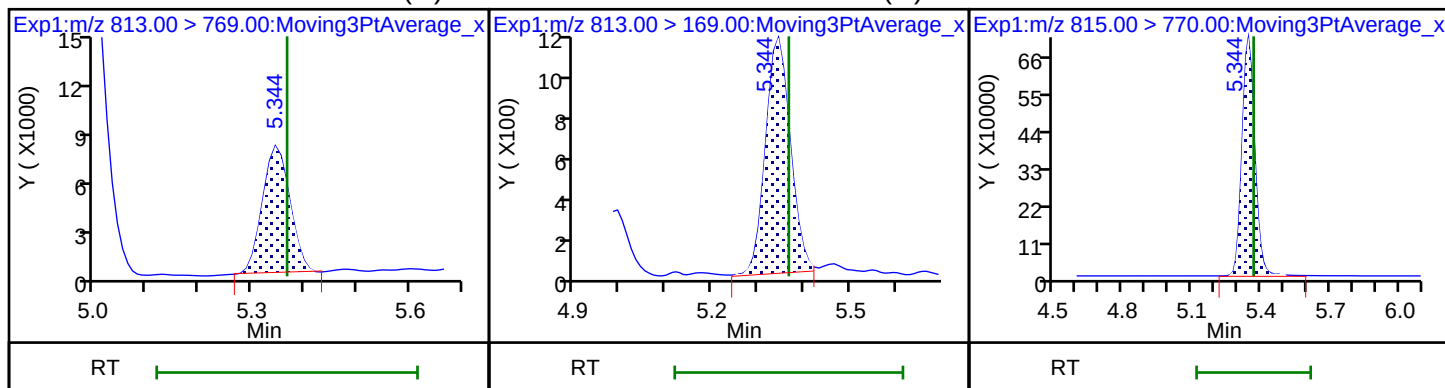
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

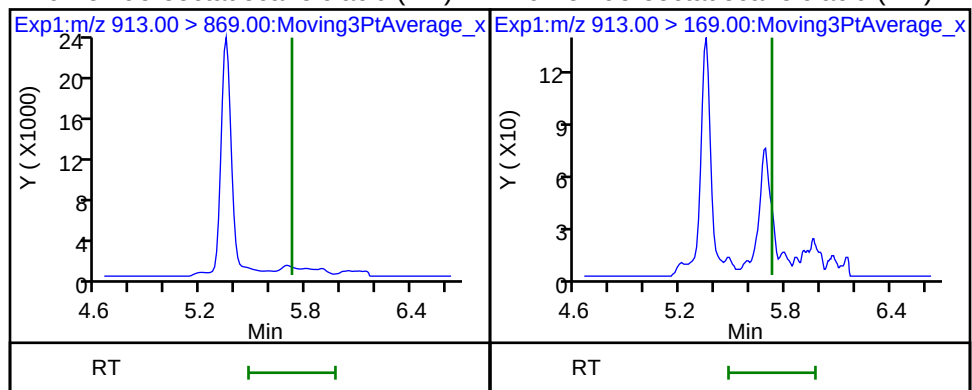
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

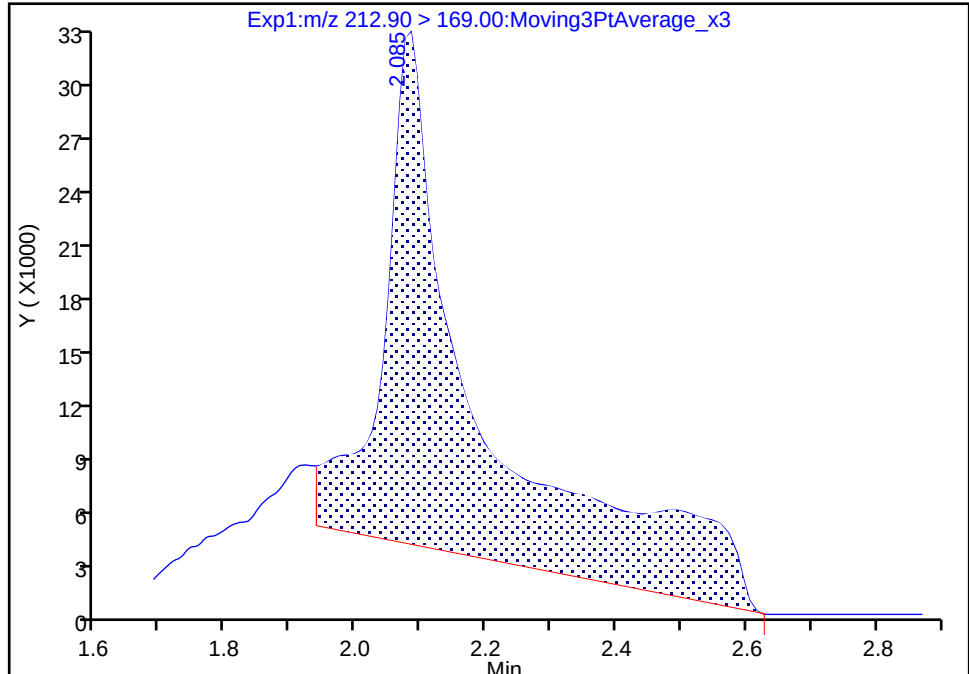
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

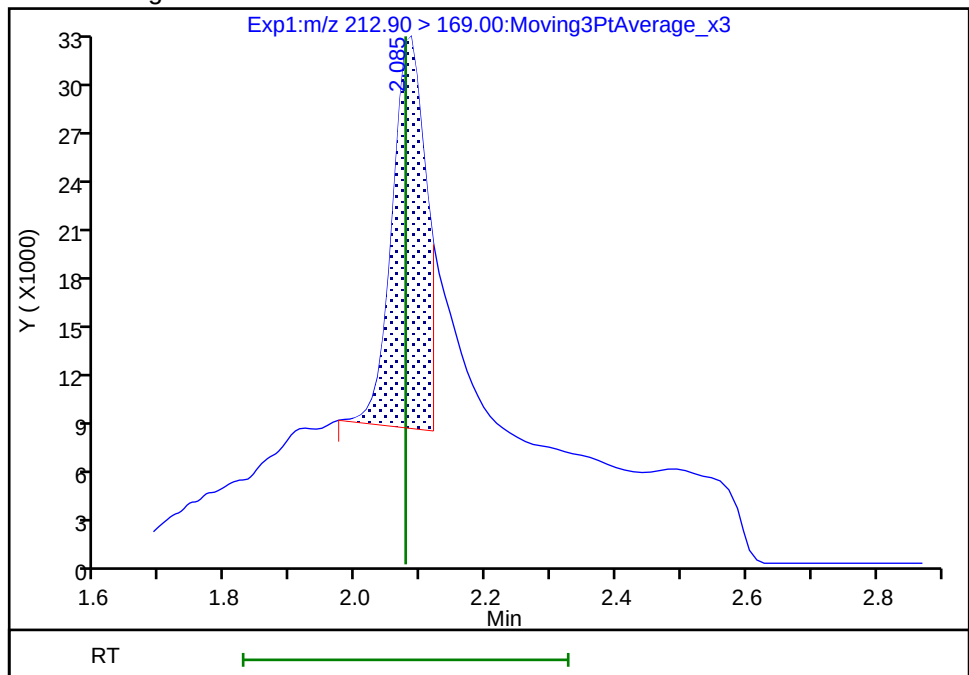
RT: 2.08
Area: 293249
Amount: 0.138049
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 85667
Amount: 0.040328
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:52:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

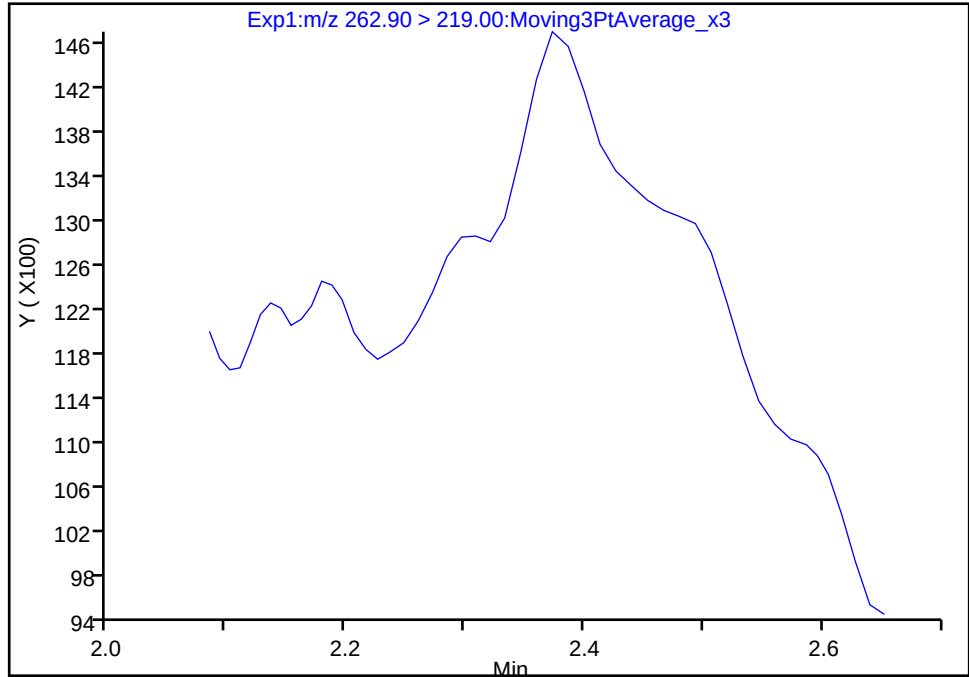
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

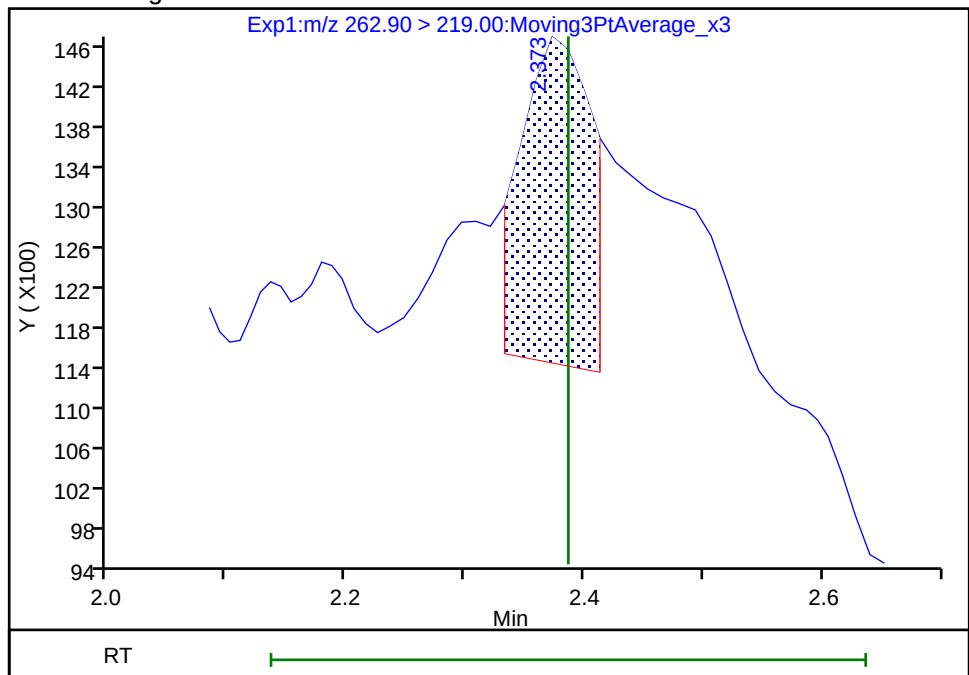
Not Detected
Expected RT: 2.39

Processing Integration Results



RT: 2.37
Area: 12519
Amount: 0.007142
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:52:15

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

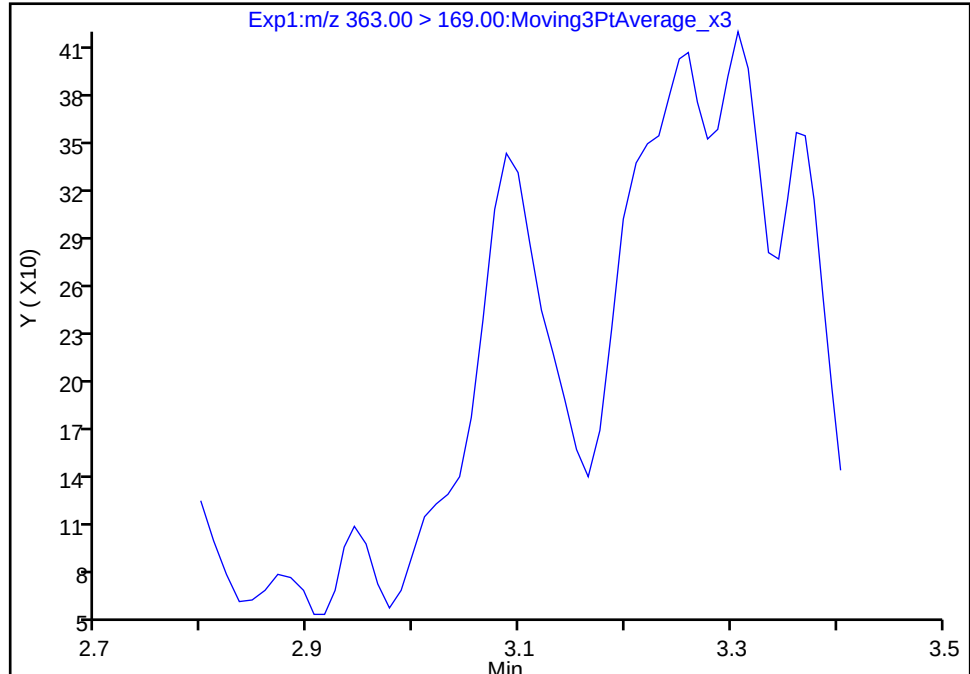
10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

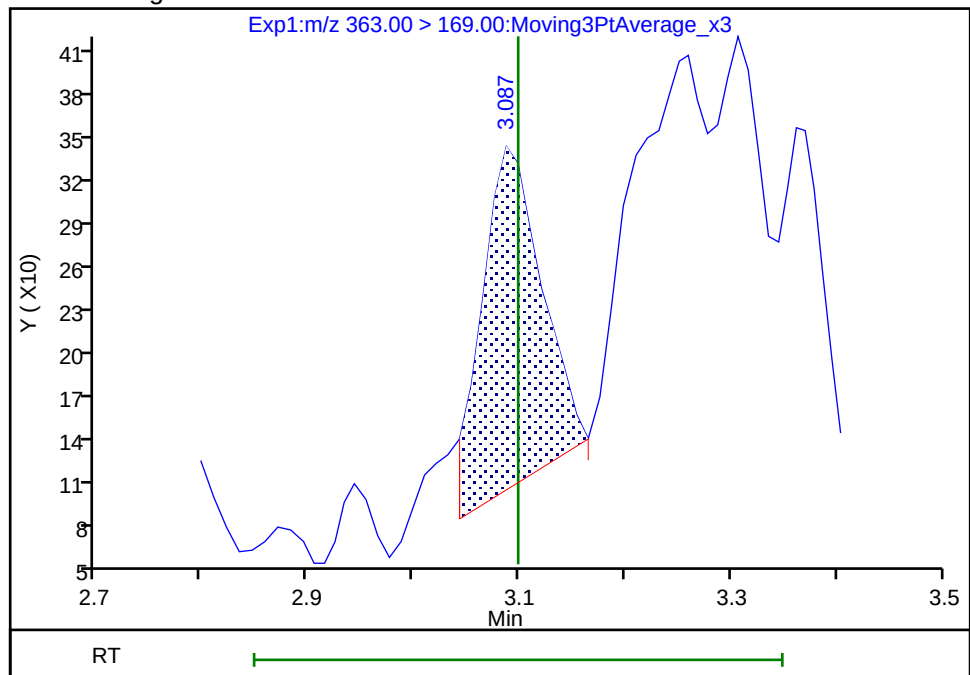
Not Detected

Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.09

Area: 922

Amount: 0.002772

Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 08:53:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

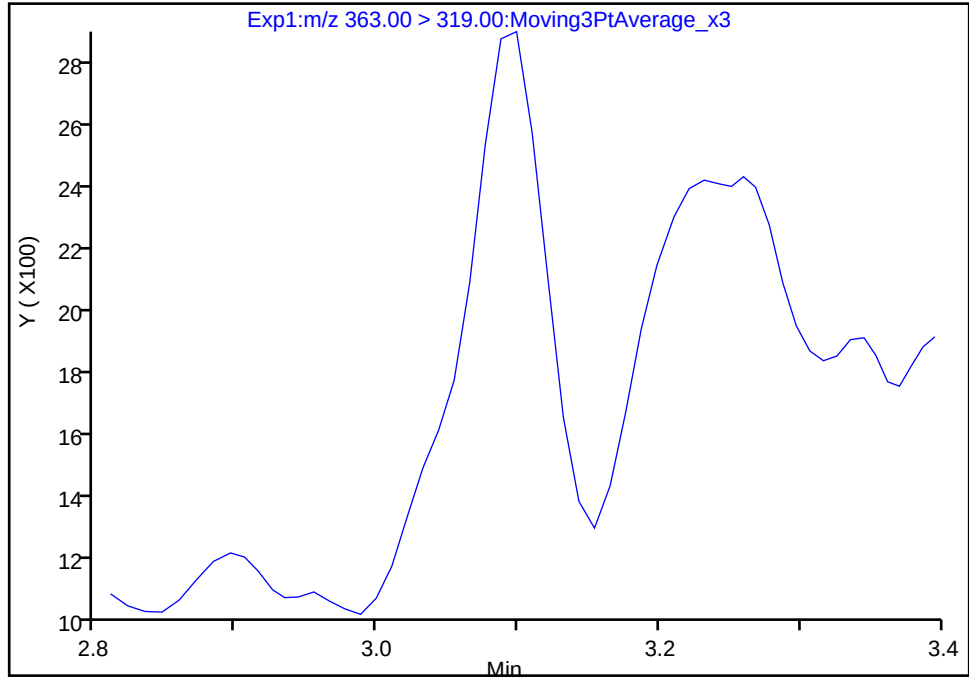
10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

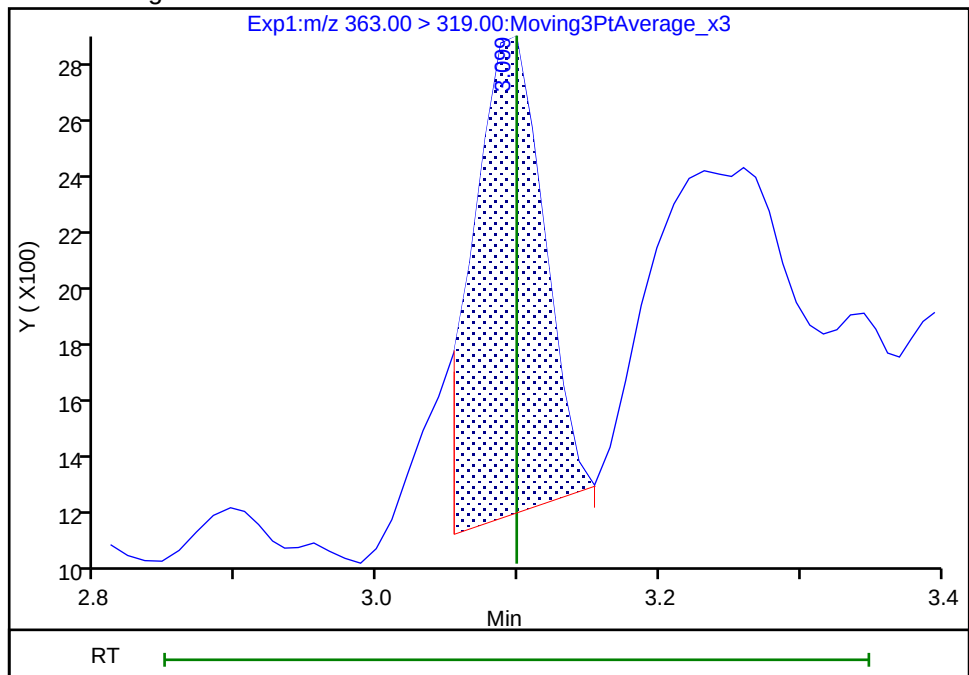
Not Detected

Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.10

Area: 5725

Amount: 0.002772

Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 08:53:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 852 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

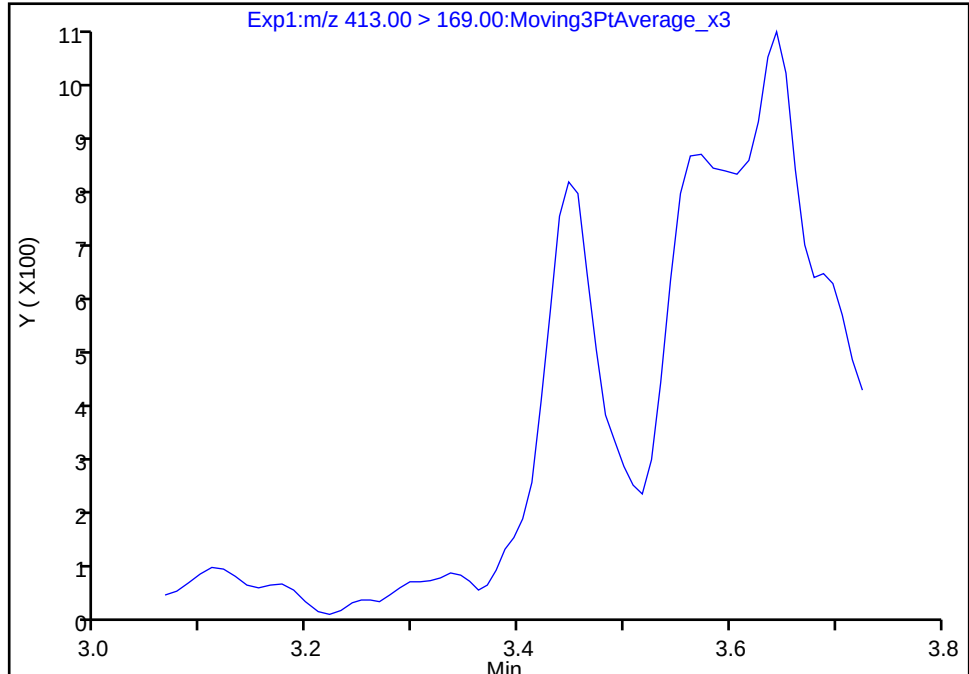
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

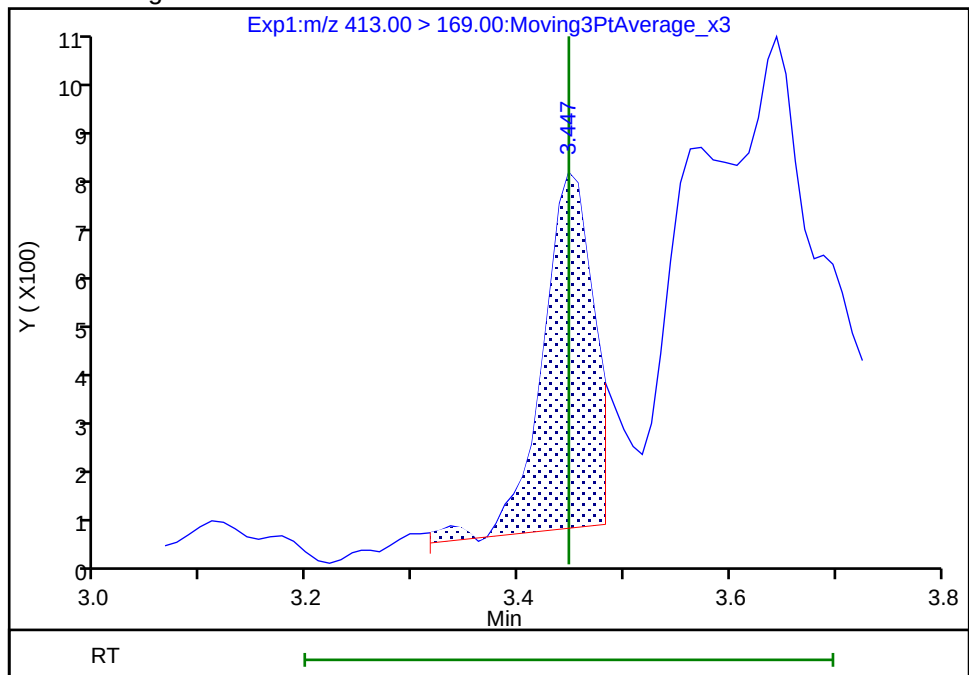
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 2366
Amount: 0.004181
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 08:53:48

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

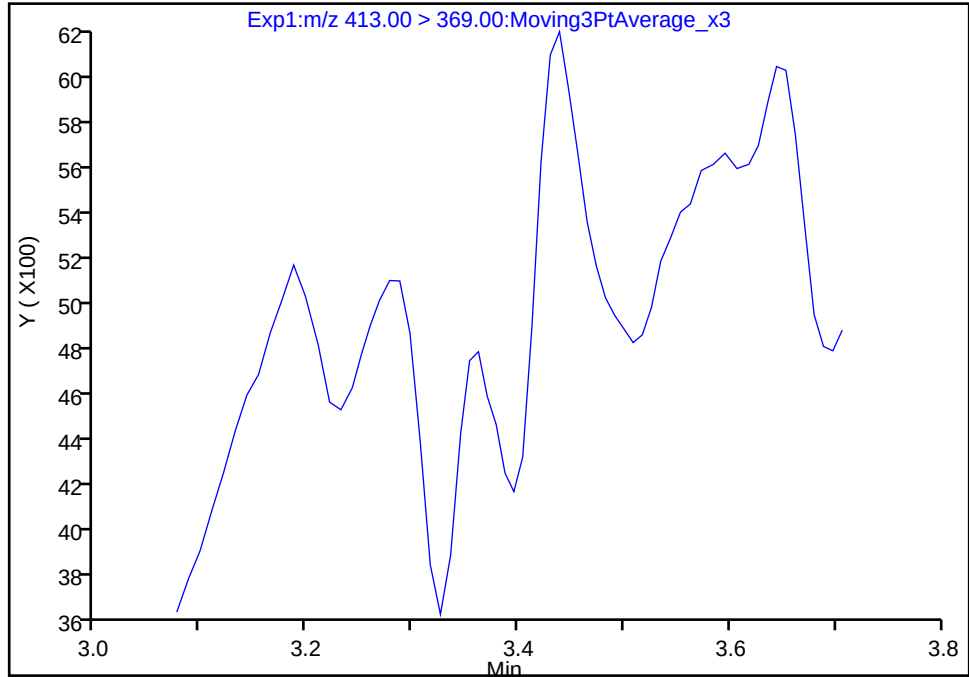
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

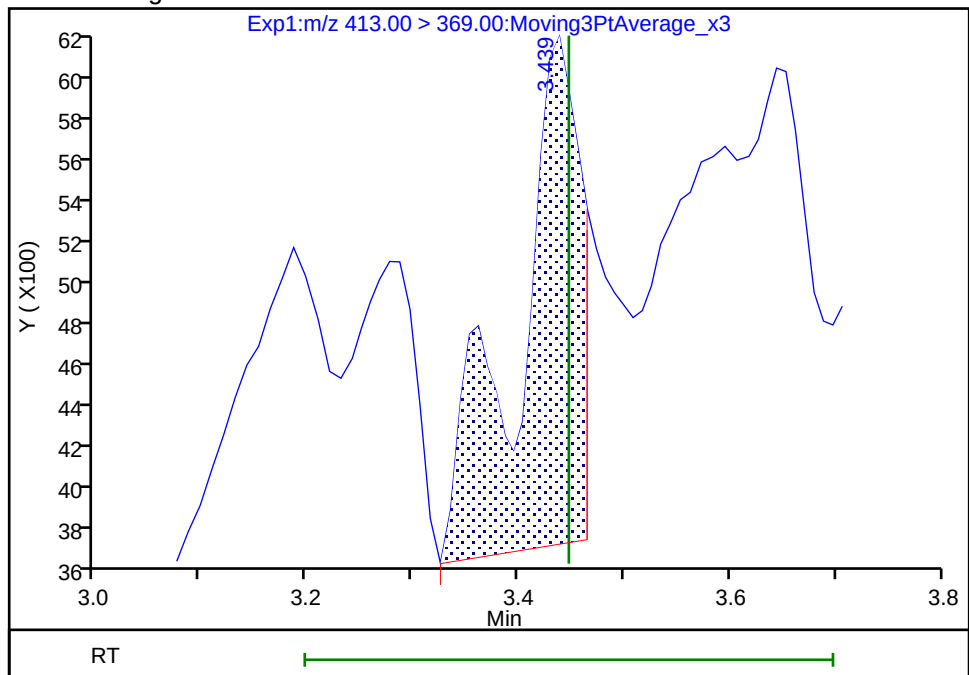
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 9545
Amount: 0.004181
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 08:53:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 854 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

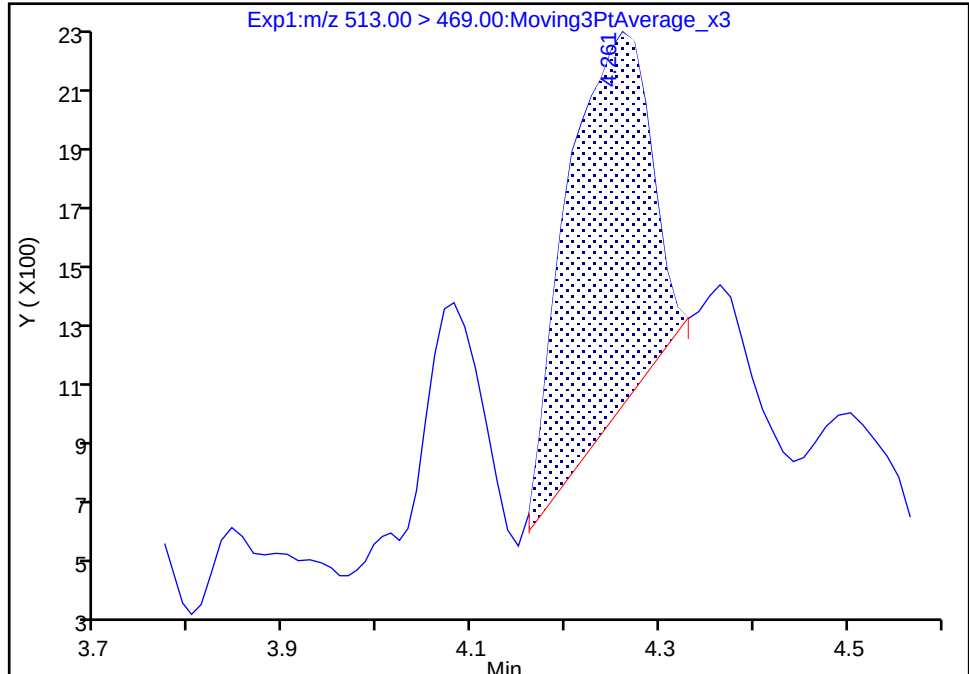
EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

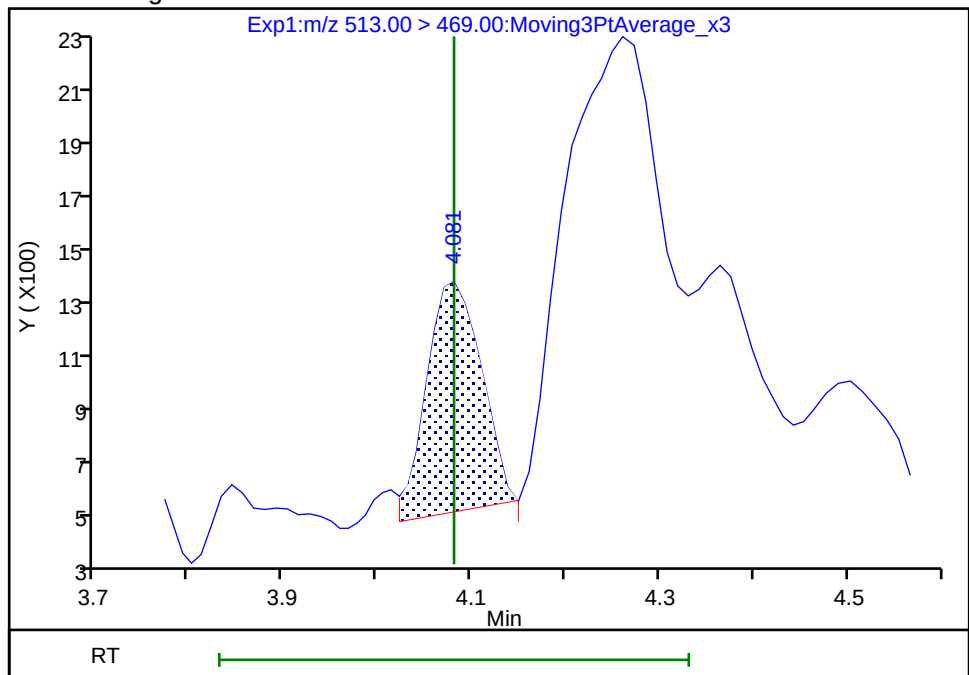
RT: 4.26
Area: 7792
Amount: 0.003269
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 3349
Amount: 0.001405
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:54:45

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

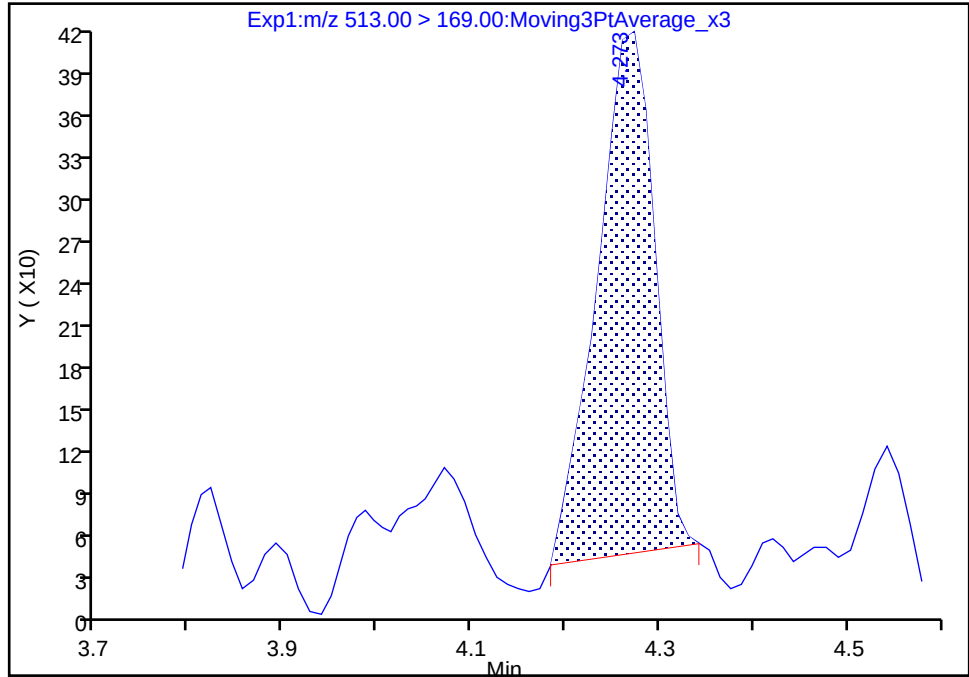
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

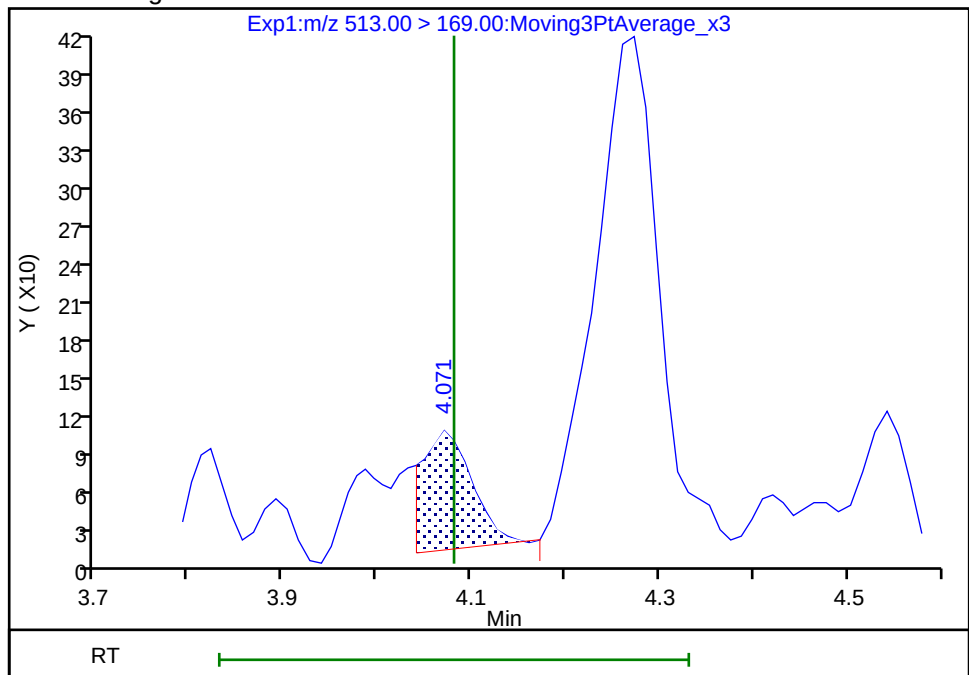
RT: 4.27
Area: 1554
Amount: 0.003269
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 333
Amount: 0.001405
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:54:48

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 856 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

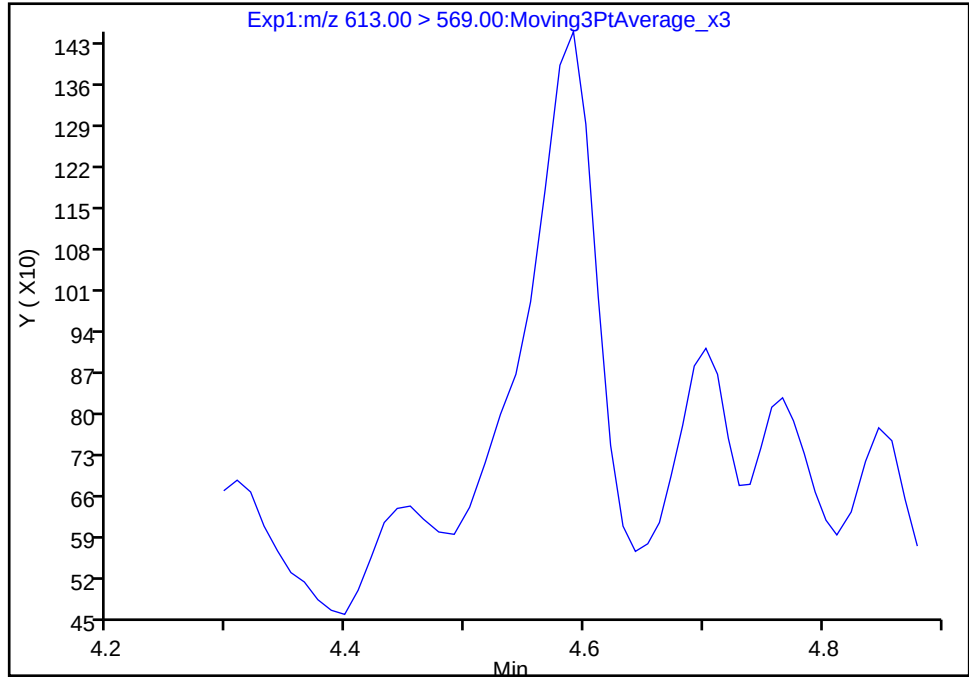
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

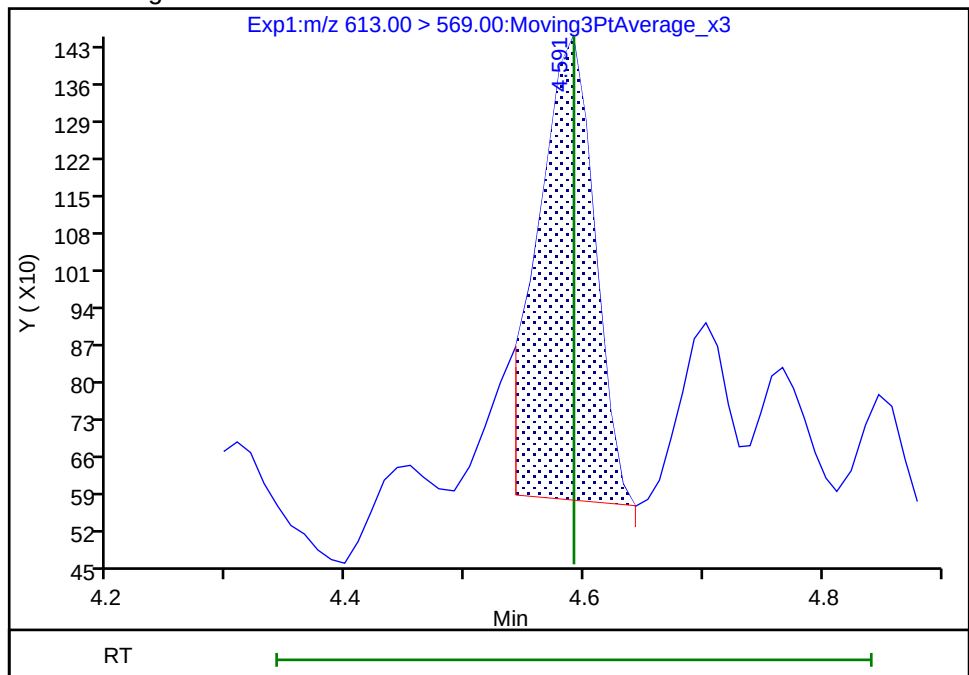
Signal: 1

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:55:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

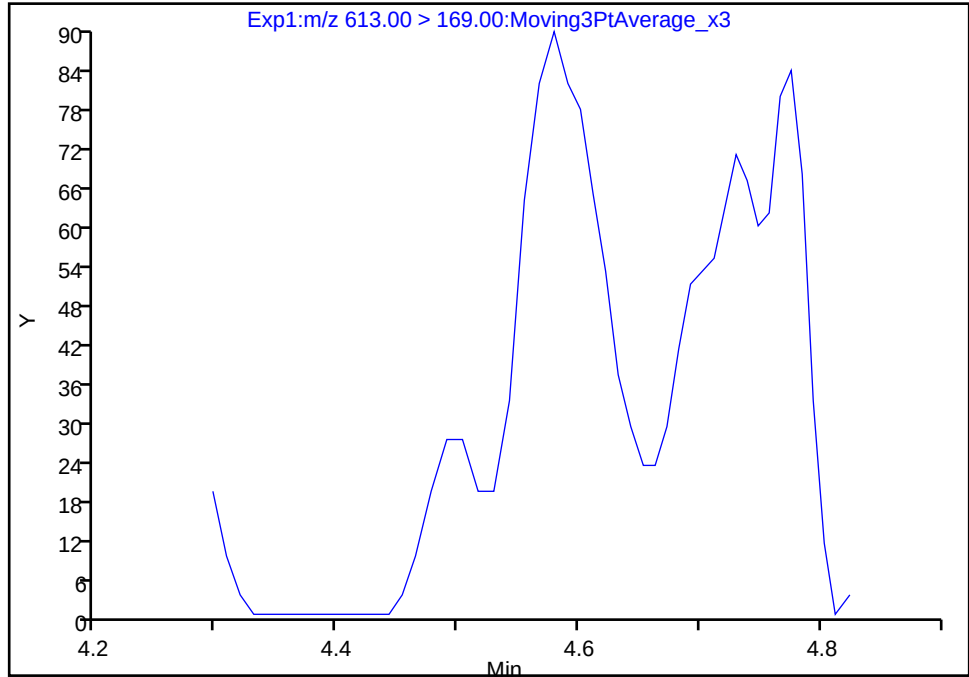
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

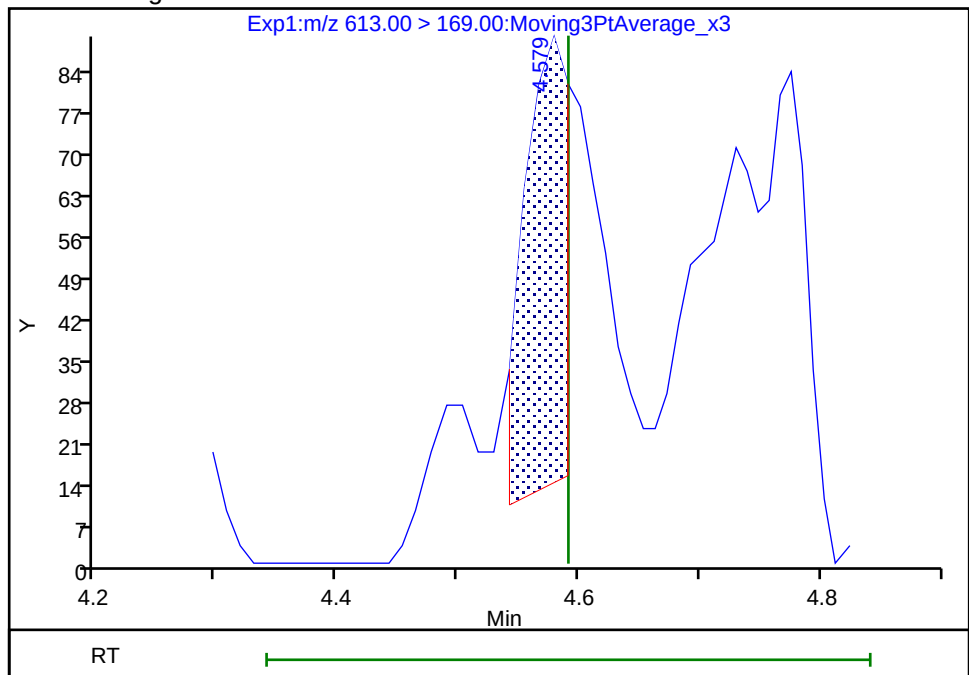
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 175
Amount: 0.001624
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 08:55:55

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 858 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

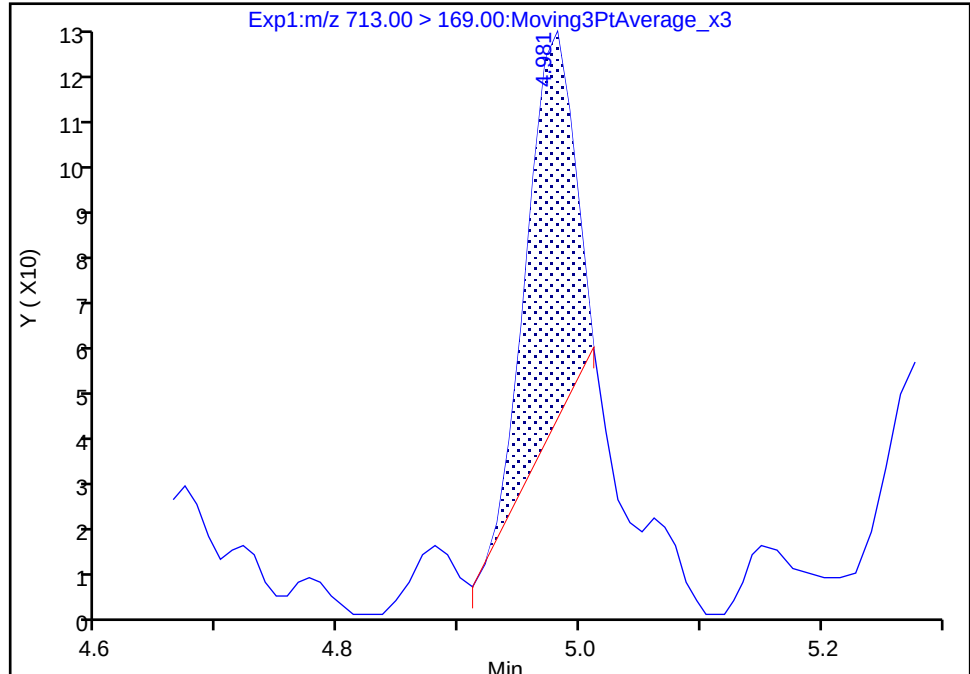
EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

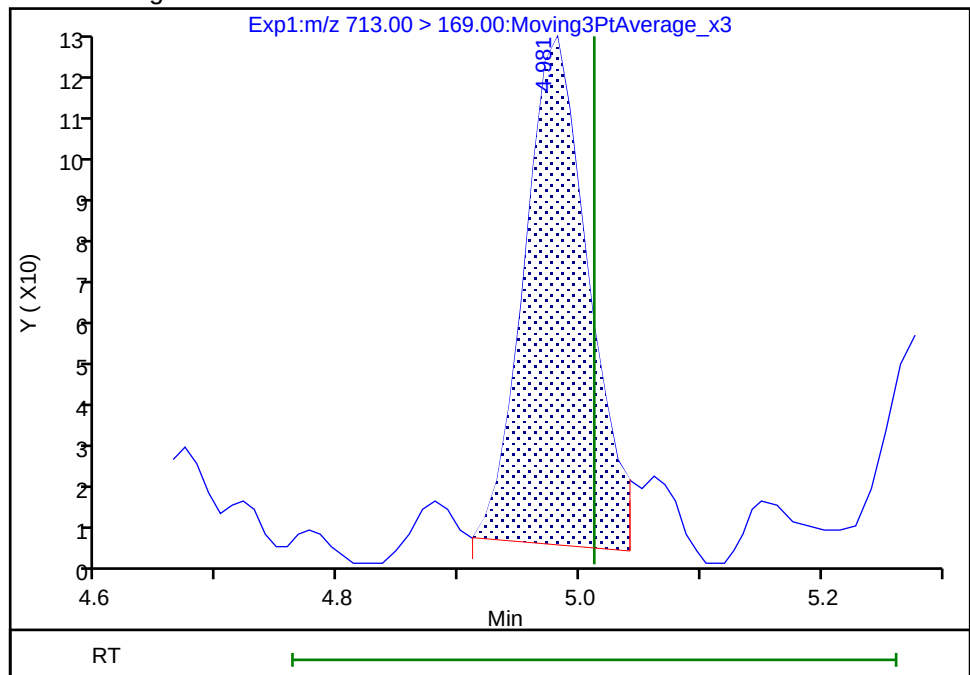
RT: 4.98
Area: 228
Amount: 0.000968
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 448
Amount: 0.001903
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:56:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

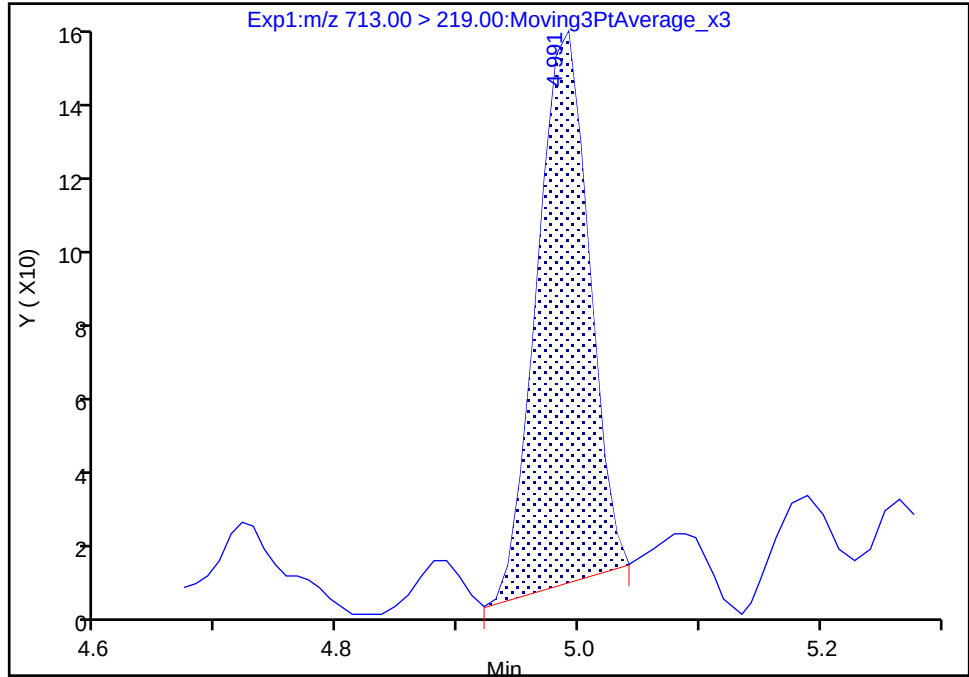
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

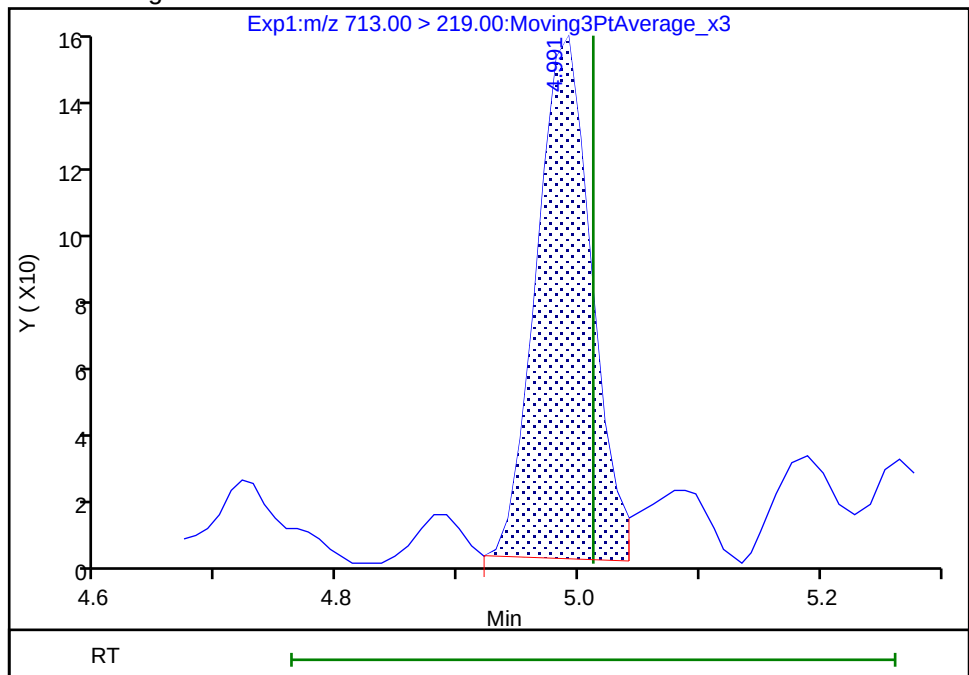
RT: 4.99
Area: 430
Amount: 0.000968
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 473
Amount: 0.001903
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:56:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 860 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

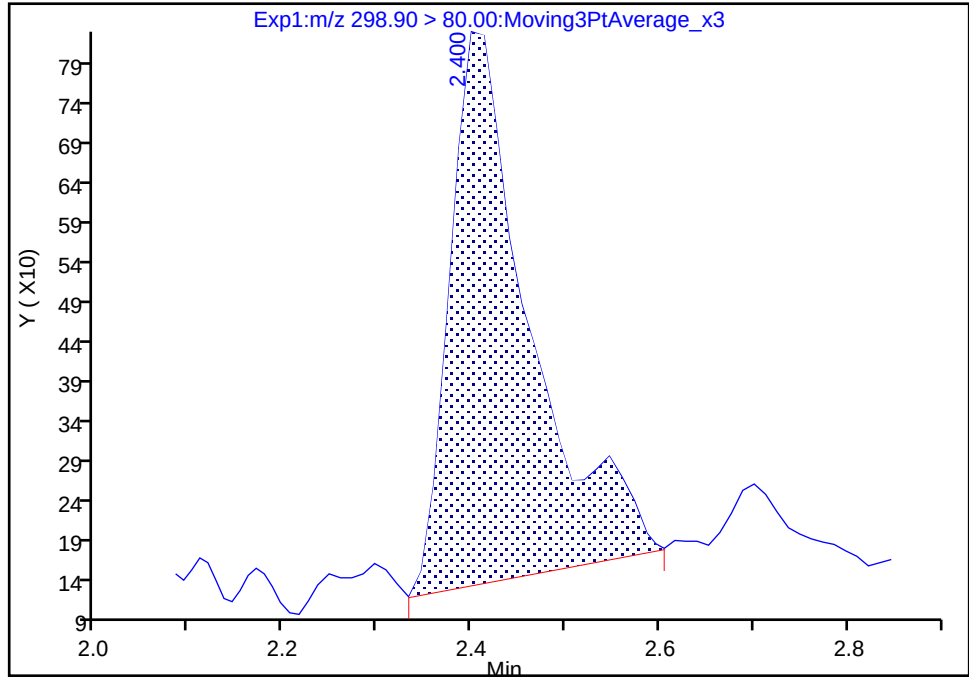
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

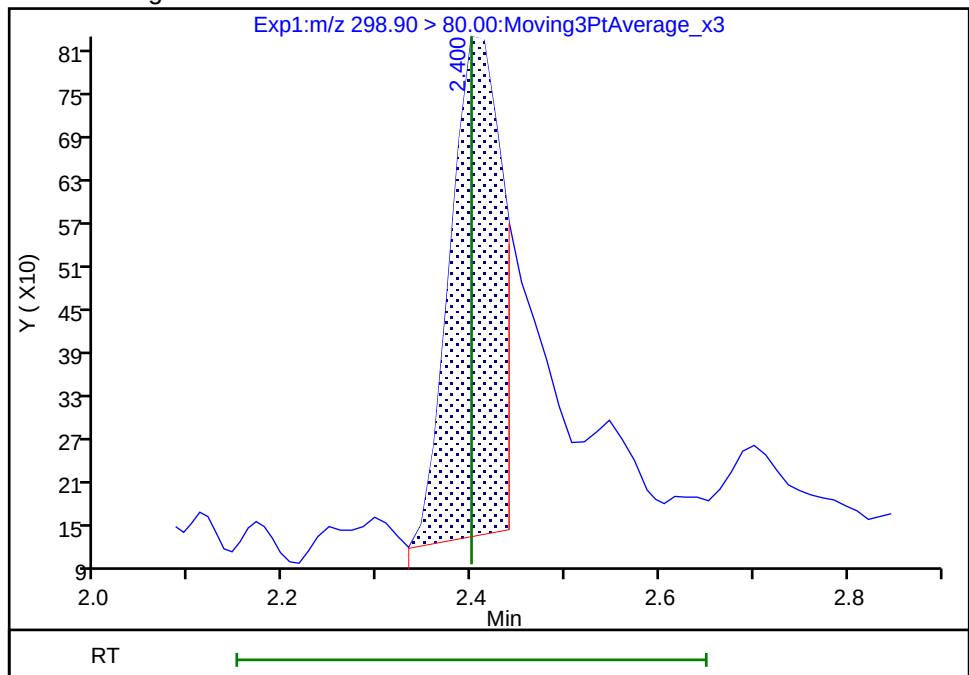
RT: 2.40
Area: 4084
Amount: 0.001907
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2577
Amount: 0.001203
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:52:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

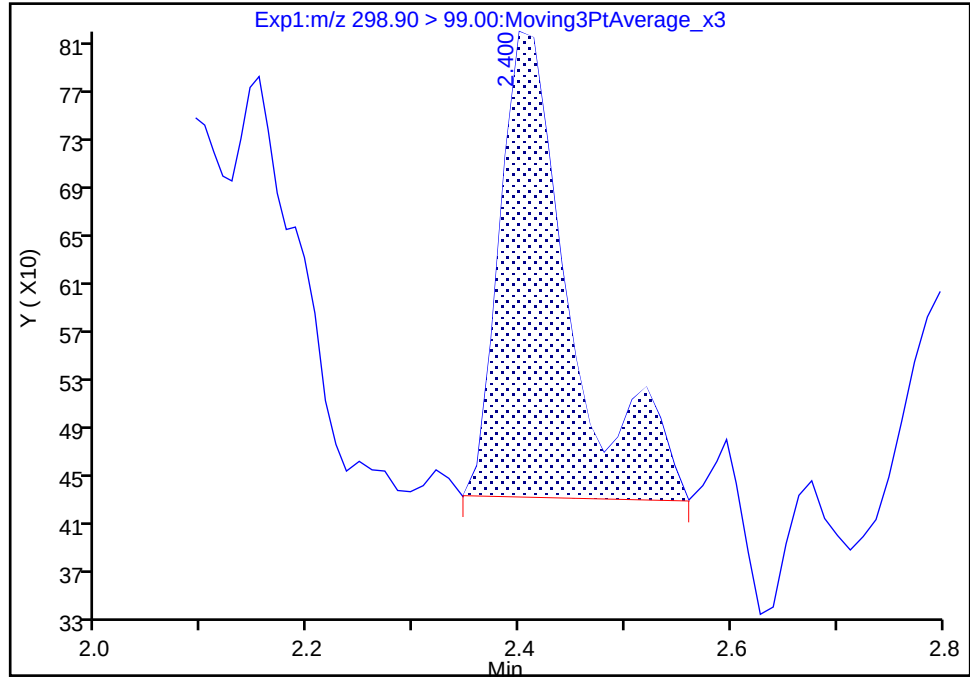
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

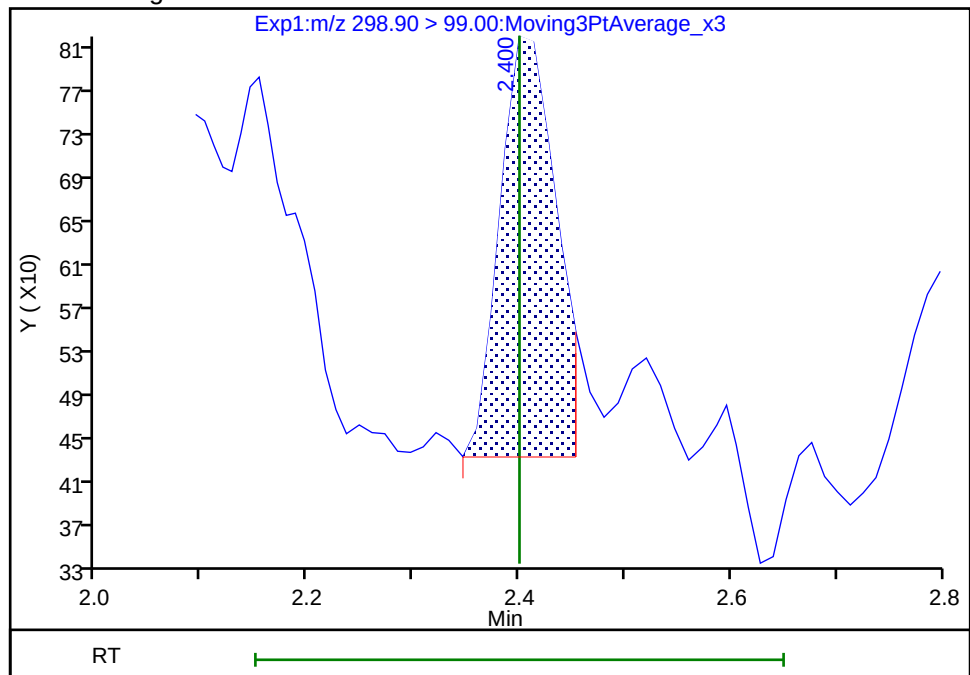
RT: 2.40
Area: 1782
Amount: 0.001907
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1397
Amount: 0.001203
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:52:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

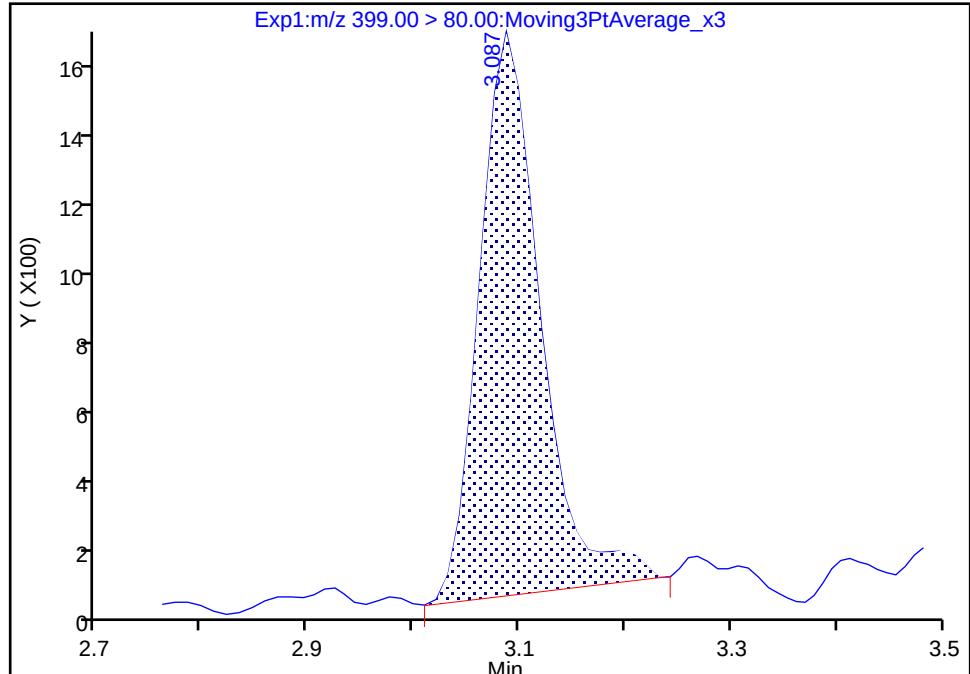
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

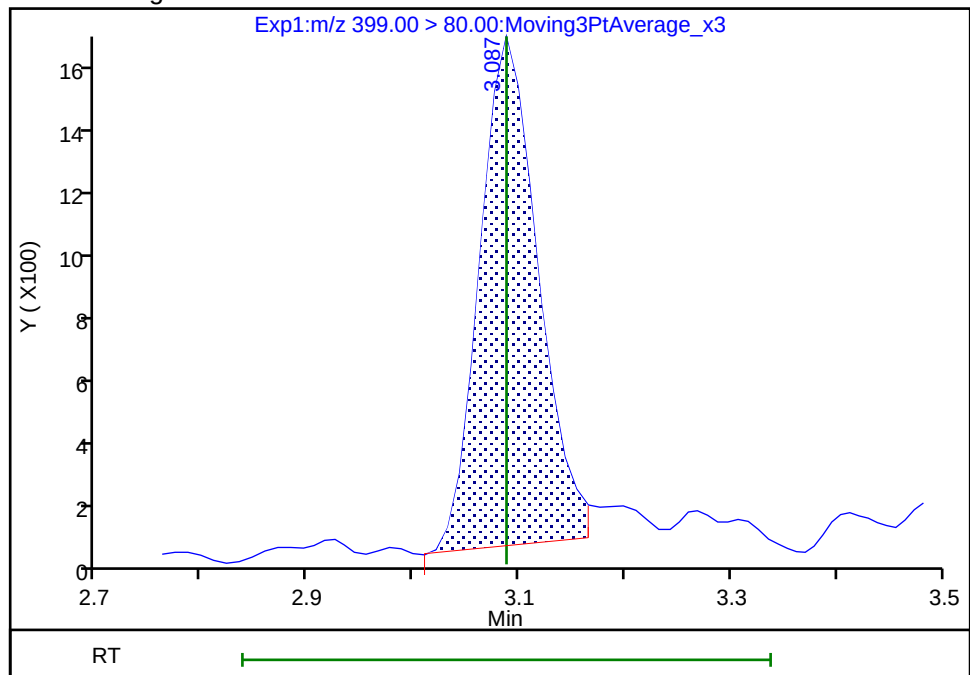
RT: 3.09
Area: 6364
Amount: 0.004012
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6086
Amount: 0.003837
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:53:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

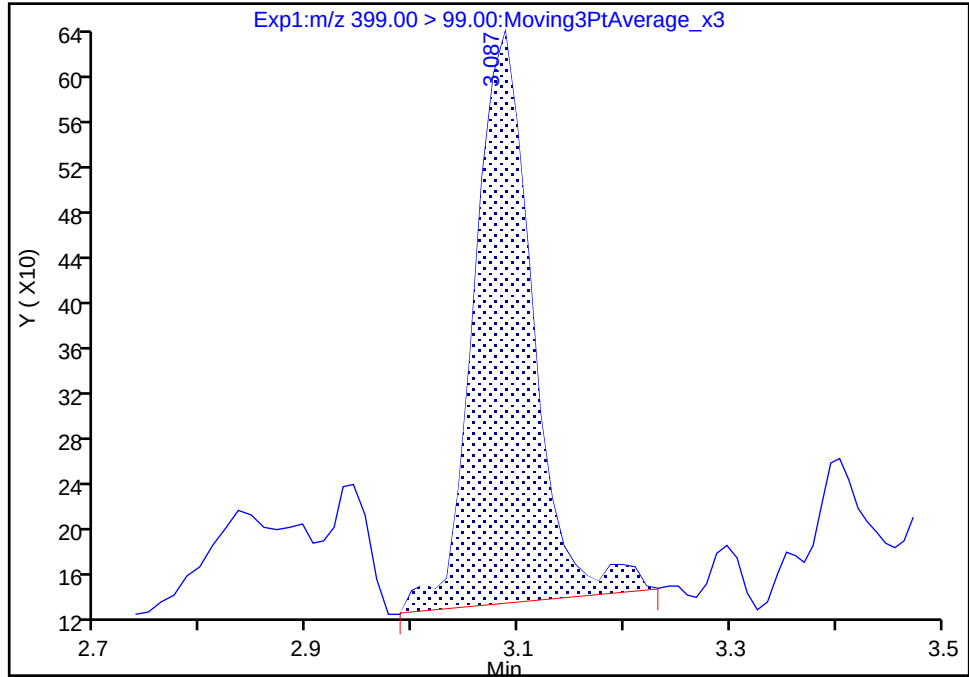
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

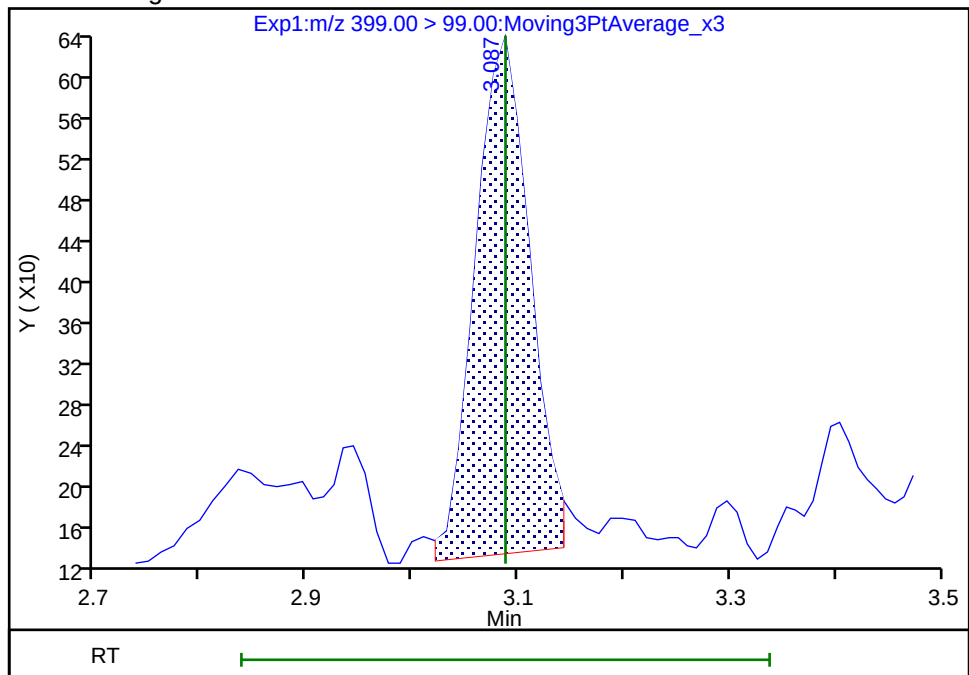
RT: 3.09
Area: 1955
Amount: 0.004012
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1819
Amount: 0.003837
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:53:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

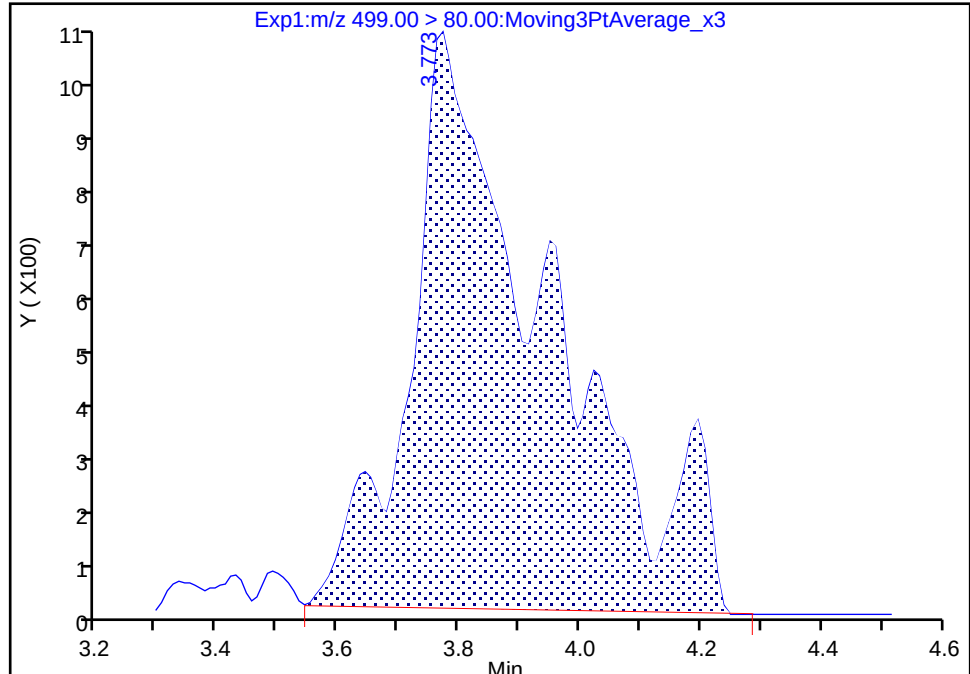
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

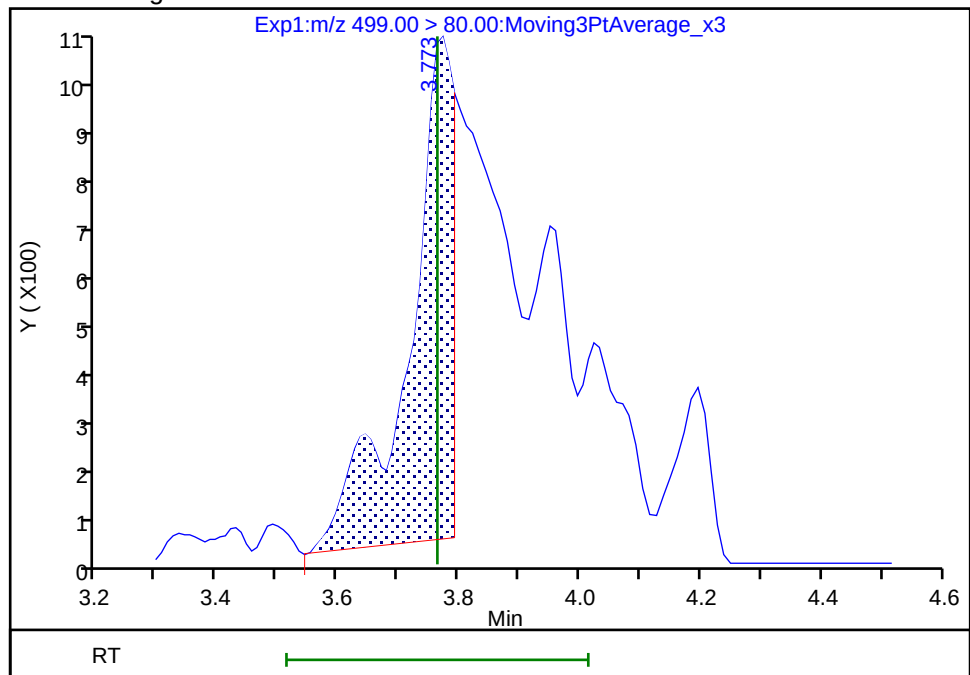
RT: 3.77
Area: 16609
Amount: 0.015348
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 4904
Amount: 0.004532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:54:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

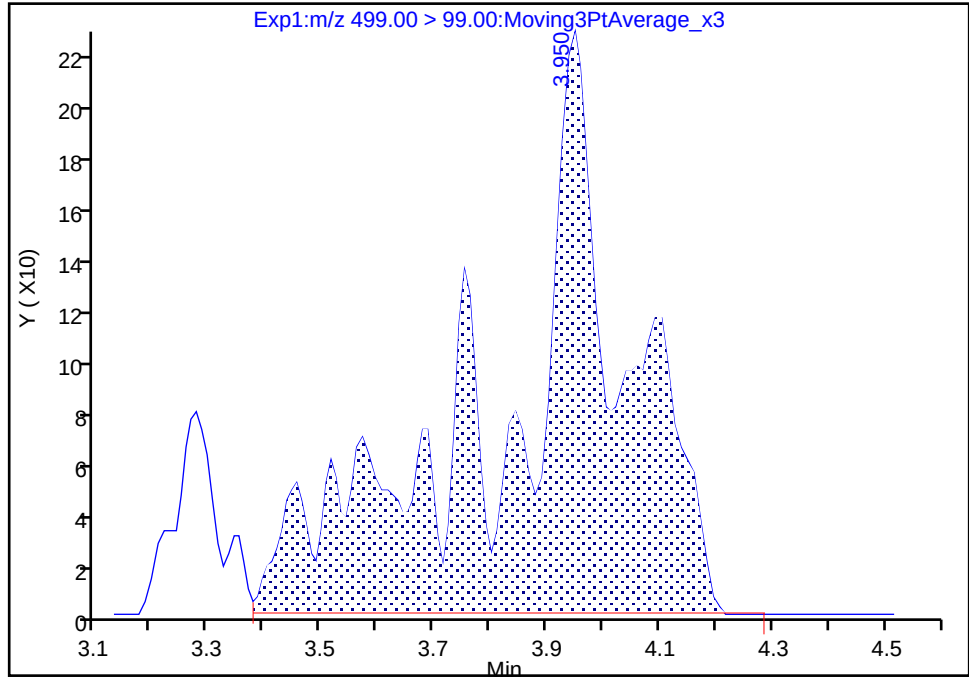
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d
Injection Date: 30-Dec-2022 13:25:52 Instrument ID: LC812
Lims ID: MB 200-187080/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

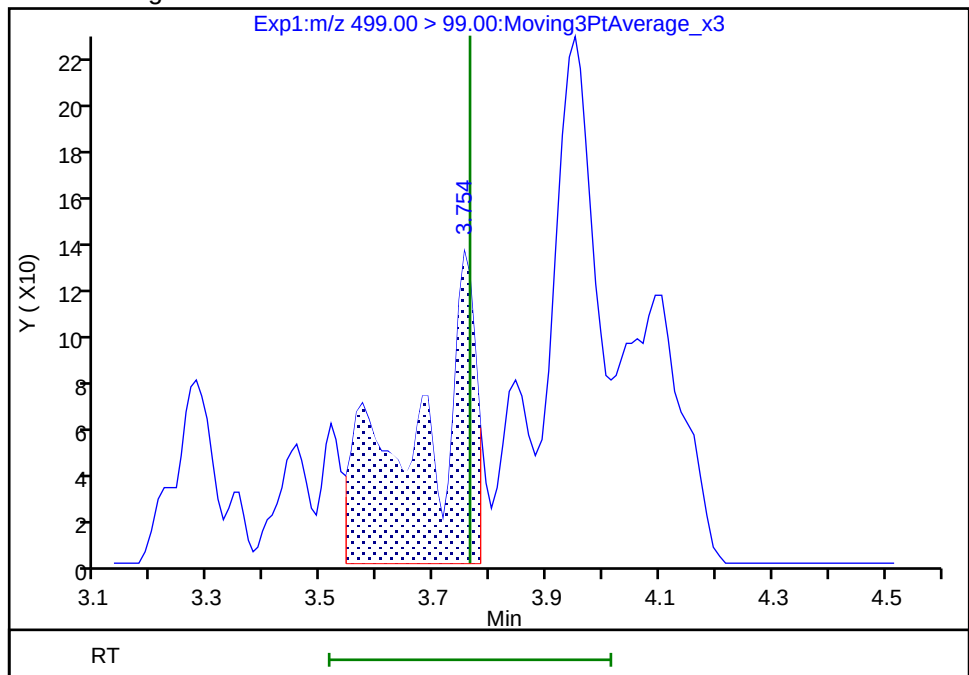
RT: 3.95
Area: 3543
Amount: 0.015348
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 891
Amount: 0.004532
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:54:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 866 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A06.d

Injection Date: 30-Dec-2022 13:25:52

Instrument ID: LC812

Lims ID: MB 200-187080/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

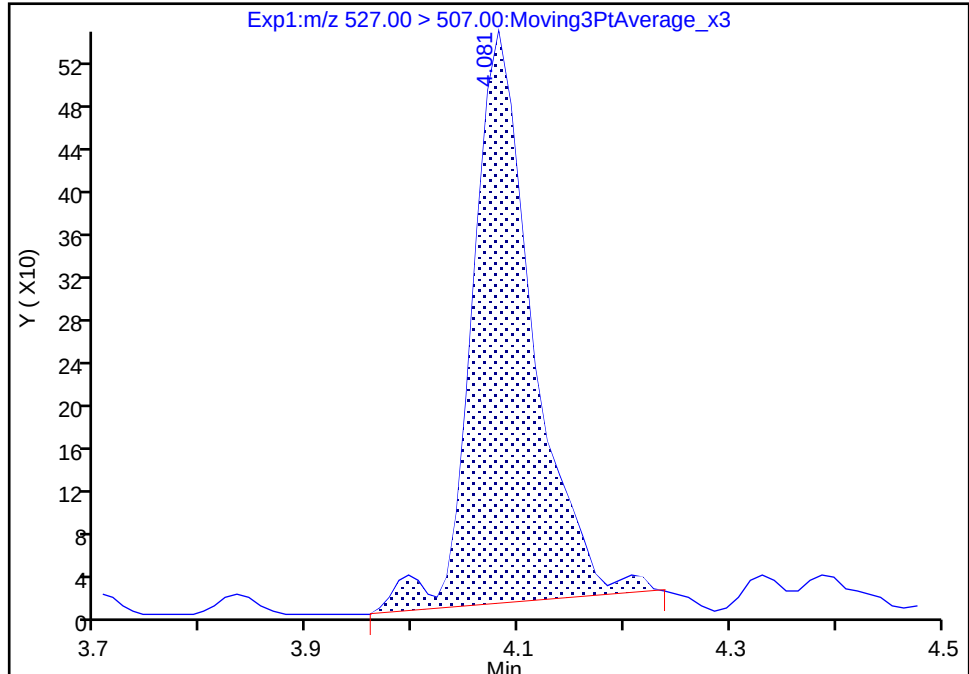
Detector: EXP1

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

Signal: 1

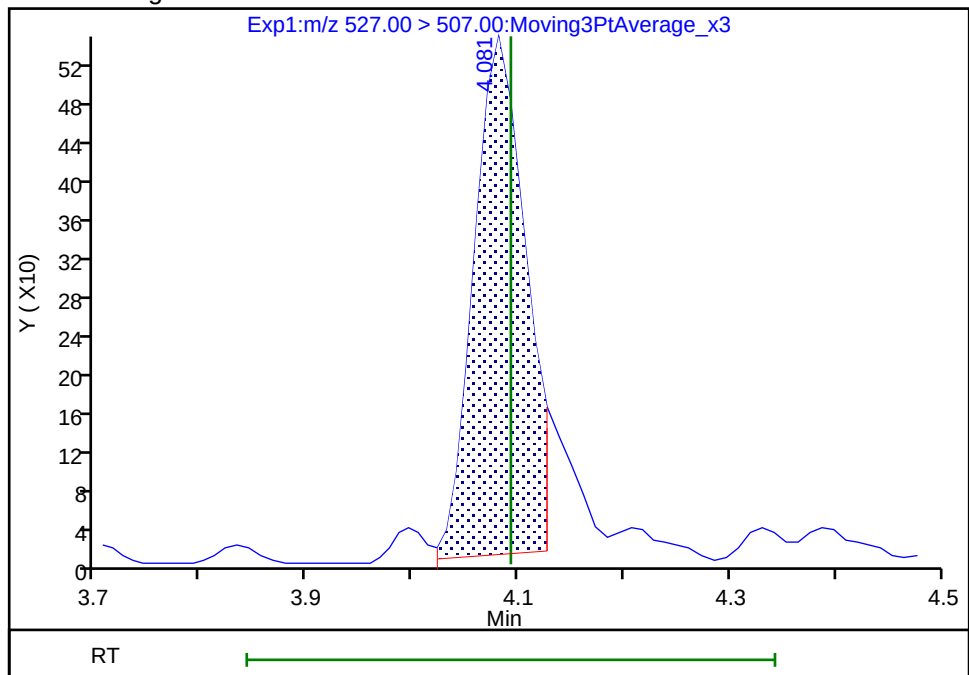
RT: 4.08
Area: 2166
Amount: 0.004675
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 1814
Amount: 0.003915
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:55:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-187142/1-A

Matrix: Water Lab File ID: PA221230C02.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 12/29/2022 13:39

Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:33

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187179 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.00	U	2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	1.60
27619-97-2	6:2 FTS	5.00	U	5.00	1.30
39108-34-4	8:2 FTS	2.00	U	2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-187142/1-A
 Matrix: Water Lab File ID: PA221230C02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 12/29/2022 13:39
 Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:33
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187179 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	104		50-150
STL00995	13C5 PFNA	108		50-150
STL00992	13C4 PFBA	94		50-150
STL00993	13C2 PFHxA	104		50-150
STL00996	13C2 PFDA	112		50-150
STL00997	13C2 PFUnA	117		50-150
STL00994	18O2 PFHxS	101		50-150
STL00998	13C2 PFDoA	106		50-150
STL00991	13C4 PFOS	100		50-150
STL01056	13C8 FOSA	88		50-150
STL01893	13C5 PFPeA	95		50-150
STL02116	13C2 PFTeDA	102		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	108		50-150
STL02279	M2-6:2 FTS	120		50-150
STL02337	13C3 PFBS	97		50-150
STL02280	M2-8:2 FTS	115		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
 Lims ID: MB 200-187142/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Dec-2022 22:33:48 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-187142/1-A
 Misc. Info.: 200-0053867-002 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:04 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 12:31:13

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.119	2.076	0.043	0.632	2858730	1.18		94.0	12705	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.128	2.076	0.052	1.004	41329	0.0175			2.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.712	2200729	1.19		95.0	2845	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.387	0.013	1.006	17136	0.008931			0.3	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.400	0.0	0.716	2264381	1.12		96.8	162721	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.400	0.013	1.006	4095	0.001838	Target=2.09		4.4	M
298.90 > 99.00	2.413	2.400	0.013	1.006	1480		2.77(1.04-3.13)		0.8	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.664	2.689	-0.025	1.000	399	0.000711			9.5	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.664	2.689	-0.025	0.794	212530	1.19		102	187	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.689	2.725	-0.036	0.802	2524232	1.30		104	3278	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.689	2.725	-0.036	1.000	3385	0.001538	Target=14.25		0.6	M
313.00 > 119.00	2.701	2.725	-0.024	1.005	413		8.20(7.12-21.37)		1.1	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.786	2.835	-0.049	1.000	180	0.000472			4.5	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.786	2.835	-0.049	0.831	451896	1.32		106	1474	
D 11 18O2 PFHxS										
403.00 > 84.00	3.021	3.088	-0.067	0.901	1750895	1.19		101	3297	

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	3.021	3.088	-0.067	1.000	8487	0.005078	Target=3.66	18.4		
399.00 > 99.00	3.021	3.088	-0.067	1.000	2840		2.99(1.83-5.49)	3.1		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.021	3.099	-0.078	0.901	2646380	1.33		106	3635	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.032	3.099	-0.067	1.004	3832	0.001662	Target=3.97	0.7		M
363.00 > 169.00	3.021	3.099	-0.078	1.000	1276		3.00(1.98-5.95)	3.0		M
77 DONA										M
377.00 > 251.00	3.065	3.132	-0.067	0.839	2246	0.000412	Target=3.16	3.0		
377.00 > 85.00	3.065	3.132	-0.067	0.839	954		2.35(1.58-4.73)	1.6		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.439	-0.094	0.998	351150	1.43		120	830	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.345	3.439	-0.094	1.000	711	-0.0107		1.2		M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.336	3.439	-0.103	0.913	476	0.000344	Target=5.14	2.4		R
449.00 > 99.00	3.326	3.439	-0.113	0.910	485		0.98(2.57-7.72)	2.7		M
D 14 13C4 PFOA										
417.00 > 372.00	3.354	3.448	-0.094	1.000	2922835	1.30		104	2781	
* 62 13C2 PFOA										
415.00 > 370.00	3.354	3.448	-0.094		2710992	1.25			3879	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.354	3.448	-0.094	1.000	7808	0.003124	Target=2.79	0.4		M
413.00 > 169.00	3.362	3.448	-0.086	1.002	2713		2.88(1.40-4.19)	3.1		M
D 18 13C4 PFOS										
503.00 > 80.00	3.653	3.764	-0.111	1.089	1184141	1.19		99.6	2684	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.636	3.764	-0.128	0.995	5407	0.004487	Target=5.11	4.0		RM
499.00 > 99.00	3.465	3.764	-0.299	0.948	2401		2.25(2.55-7.66)	3.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.671	3.783	-0.112	1.095	2944349	1.35		108	5865	
D 23 13C2 PFDA										
515.00 > 470.00	3.969	4.081	-0.112	1.183	3103720	1.40		112	4138	
24 Perfluorodecanoic acid										M
513.00 > 469.00	3.978	4.081	-0.103	1.002	3367	0.001250	Target=10.26	1.2		M
513.00 > 169.00	3.960	4.081	-0.121	0.998	646		5.21(5.13-15.38)	2.6		M
D 26 M2-8:2 FTS										
529.00 > 81.00	3.978	4.093	-0.115	1.186	415800	1.38		115	1090	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	3.978	4.093	-0.115	1.000	388	0.000691		4.2		M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.032	4.150	-0.118	1.000	2327	0.001385		8.9		M
D 21 13C8 FOSA										
506.00 > 78.00	4.032	4.150	-0.118	1.202	2010471	1.10		88.3	2630	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.115	4.228	-0.113	1.227	565435	1.25		99.9	2527	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.115	4.228	-0.113	1.000	2197	-0.005981			4.7	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.228	4.353	-0.125	1.261	2972175	1.46		117	3633	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.238	4.353	-0.115	1.002	1887	0.000787	Target=9.88		0.9	
563.00 > 169.00	4.249	4.353	-0.104	1.005	357		5.29(4.94-14.82)		3.5	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.249	4.365	-0.116	1.003	2926	0.006777			19.2	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.238	4.365	-0.127	1.264	602873	1.35		108	1202	
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.331	4.454	-0.124	1.185	2610	0.000612			12.1	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.478	4.591	-0.113	1.003	3648	0.001569	Target=7.77		1.4	M
613.00 > 169.00	4.465	4.591	-0.126	1.000	710		5.14(3.89-11.66)		5.9	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.465	4.591	-0.126	1.331	2743655	1.32		106	3931	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.504	4.612	-0.108	1.132	195	0.000578			4.8	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.683	4.804	-0.121	1.049	3821	0.001718	Target=5.21		1.0	M
663.00 > 169.00	4.683	4.804	-0.121	1.049	647		5.91(2.60-7.81)		13.6	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.870	5.012	-0.142	0.998	599	0.002389	Target=0.89		12.5	M
713.00 > 219.00	4.870	5.012	-0.142	0.998	661		0.91(0.44-1.33)		14.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.880	5.012	-0.132	1.455	2289677	1.28		102	2548	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.242	5.367	-0.125	1.000	31373	-0.002258	Target=5.65		3.3	
813.00 > 169.00	5.242	5.367	-0.125	1.000	4825		6.50(2.82-8.47)		41.6	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.242	5.367	-0.125	1.563	2877584	1.30		104	5713	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.595	5.722	-0.127	1.067	5565	0.002935	Target=6.24		0.8	M
913.00 > 169.00	5.586	5.722	-0.136	1.066	649		8.57(3.12-9.36)		10.0	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

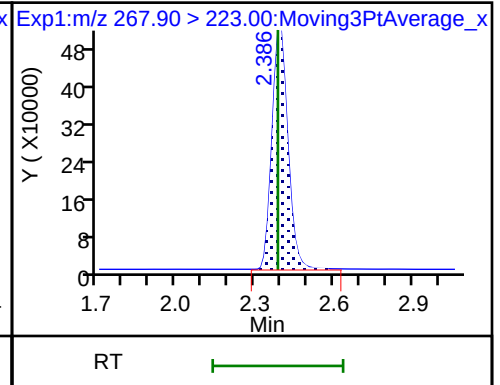
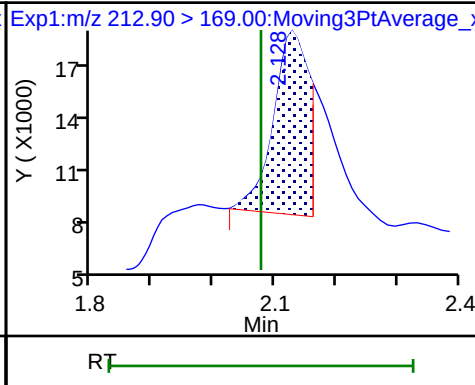
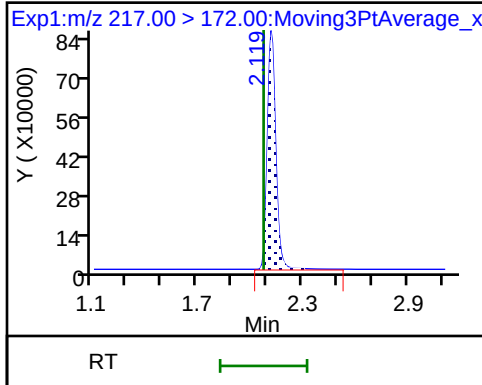
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

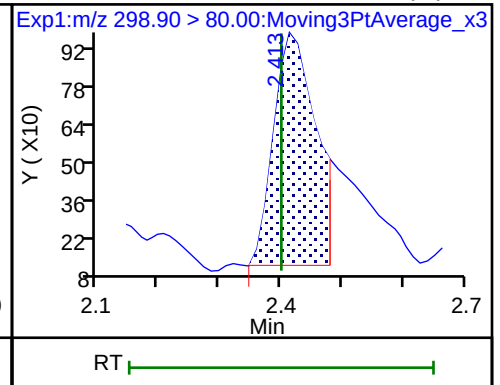
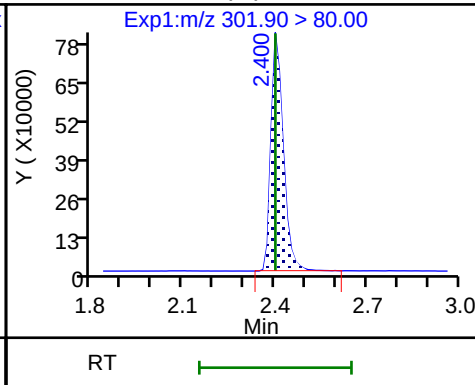
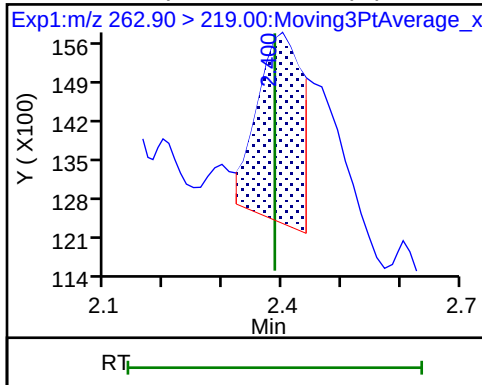
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

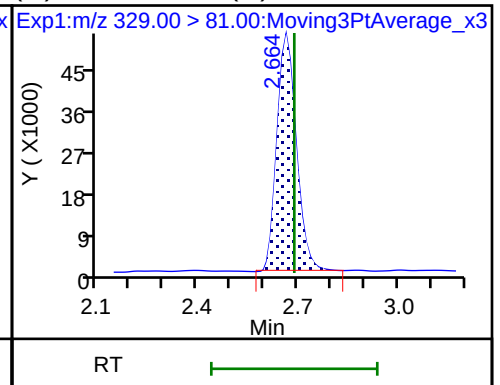
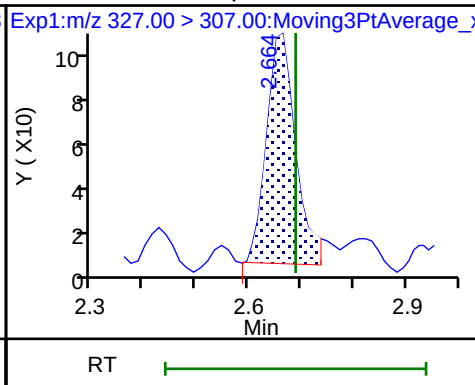
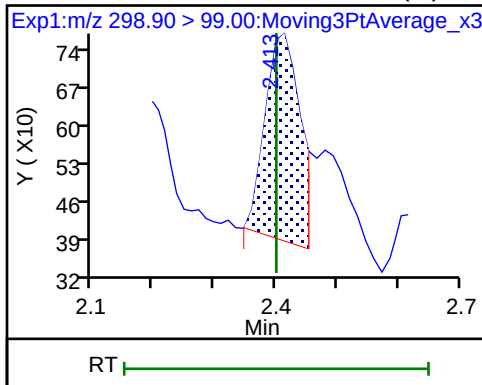
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

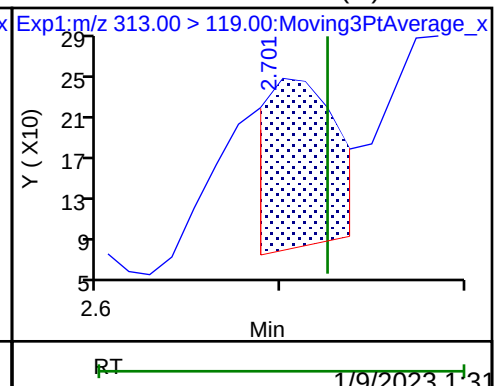
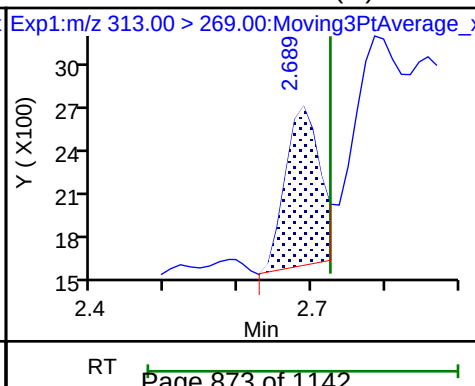
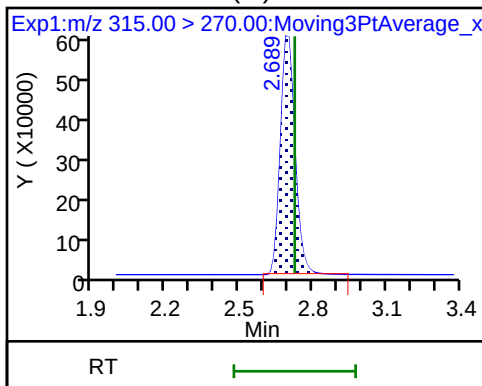
D 50 M2-4:2 FTS (M)



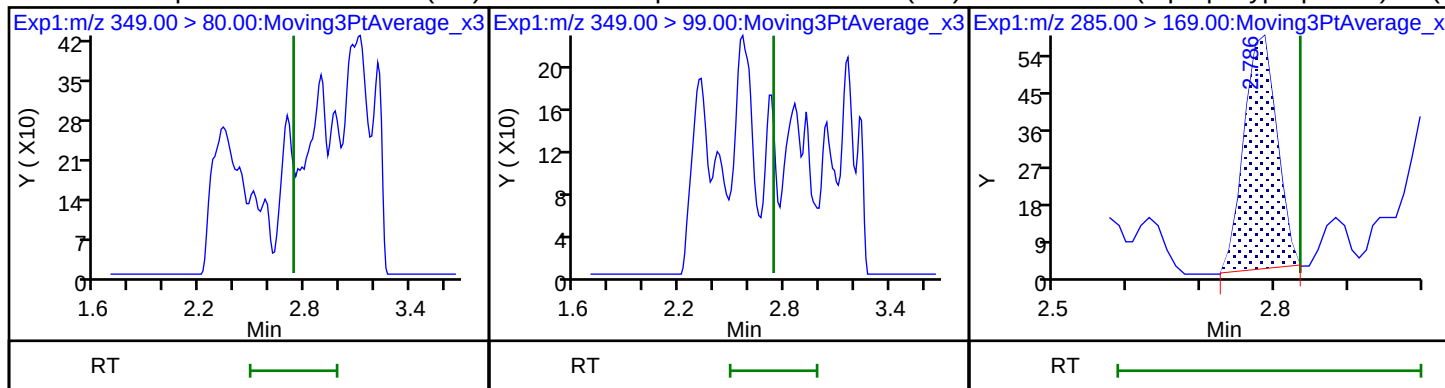
D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)



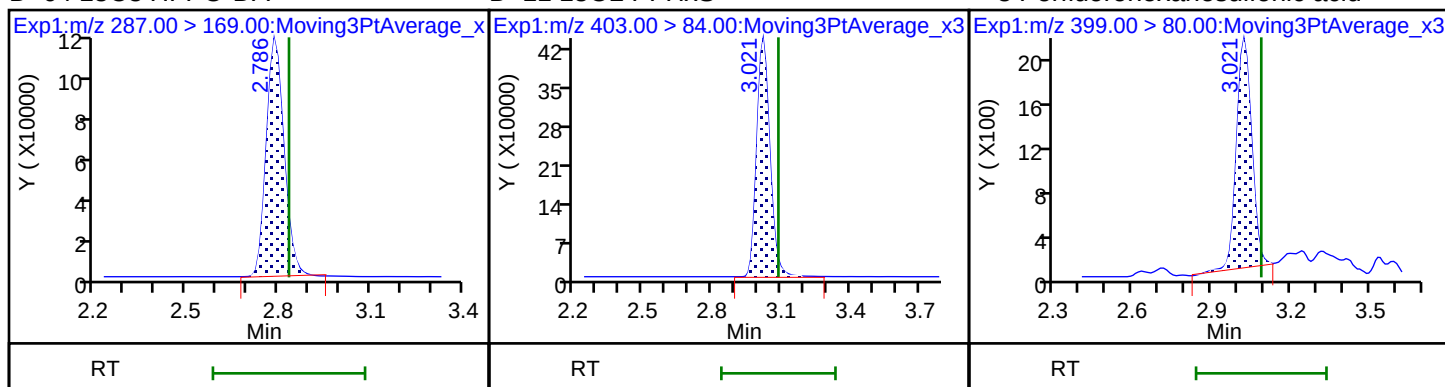
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

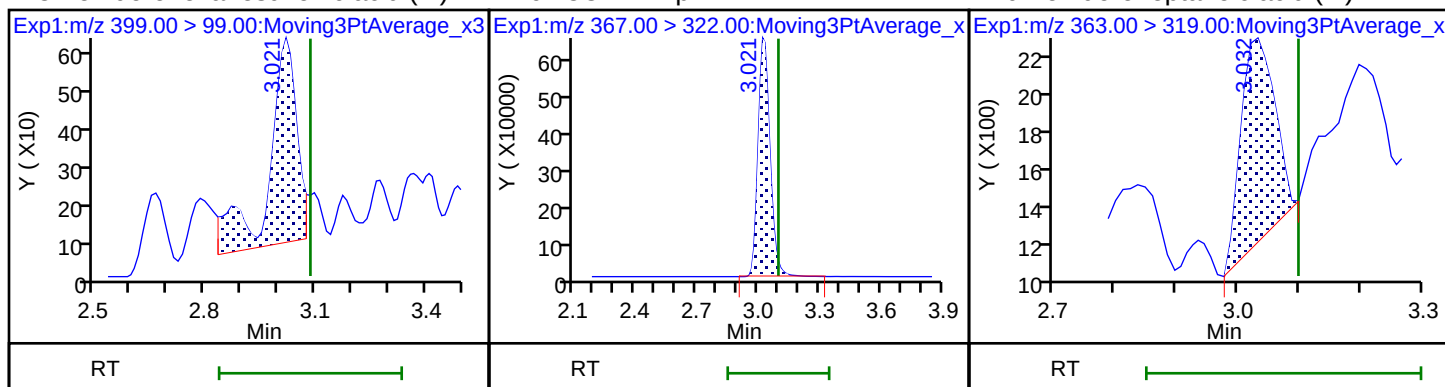
8 Perfluorohexanesulfonic acid



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

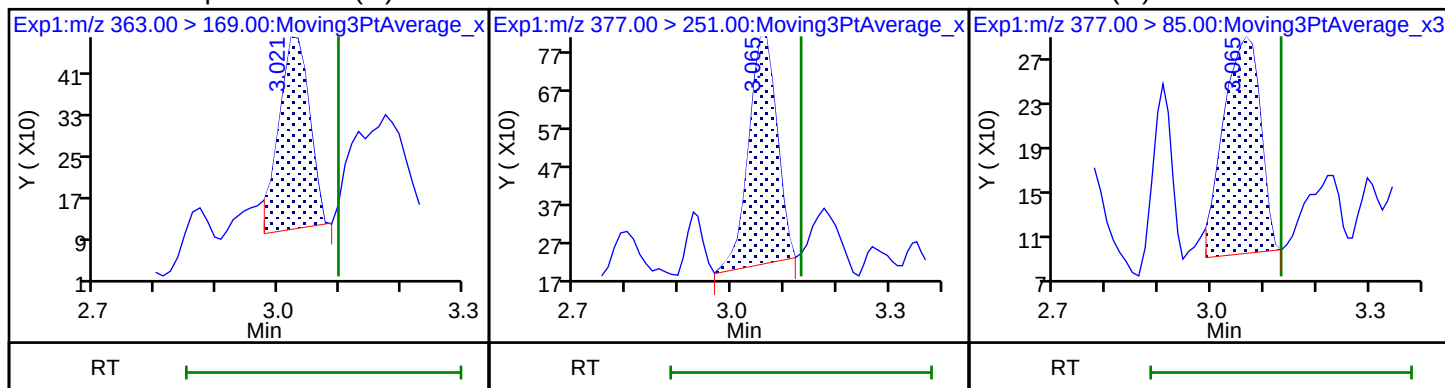
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

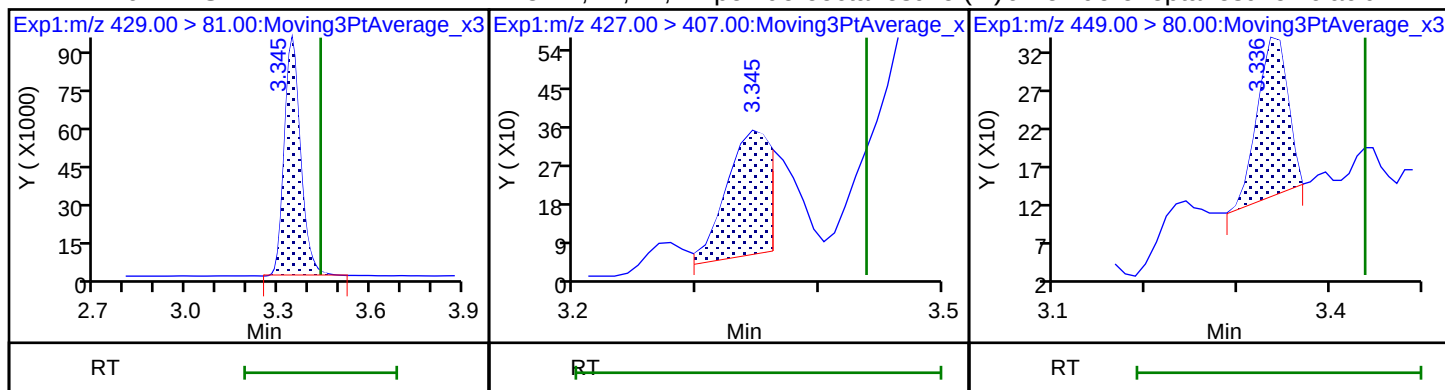
77 DONA

77 DONA (M)



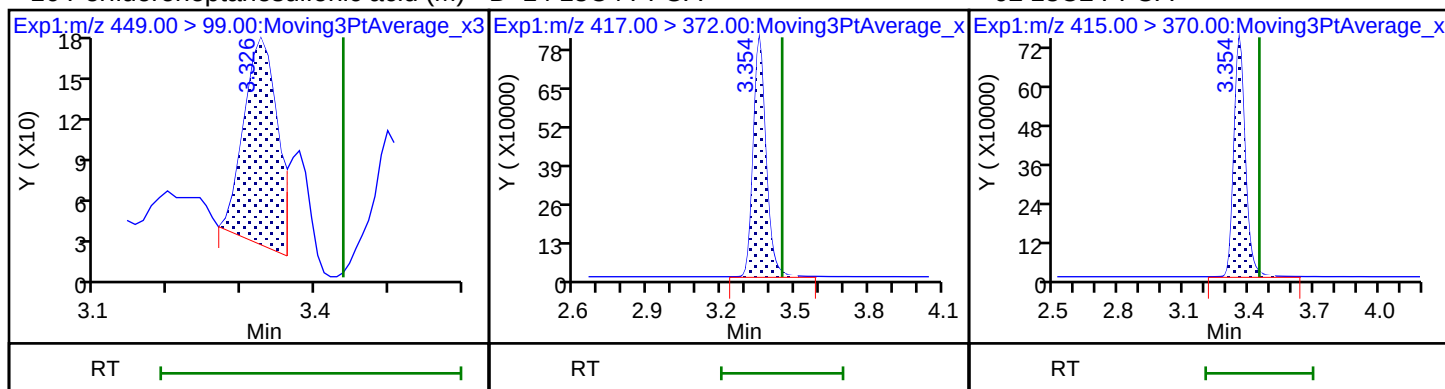
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M) D 14 13C4 PFOA

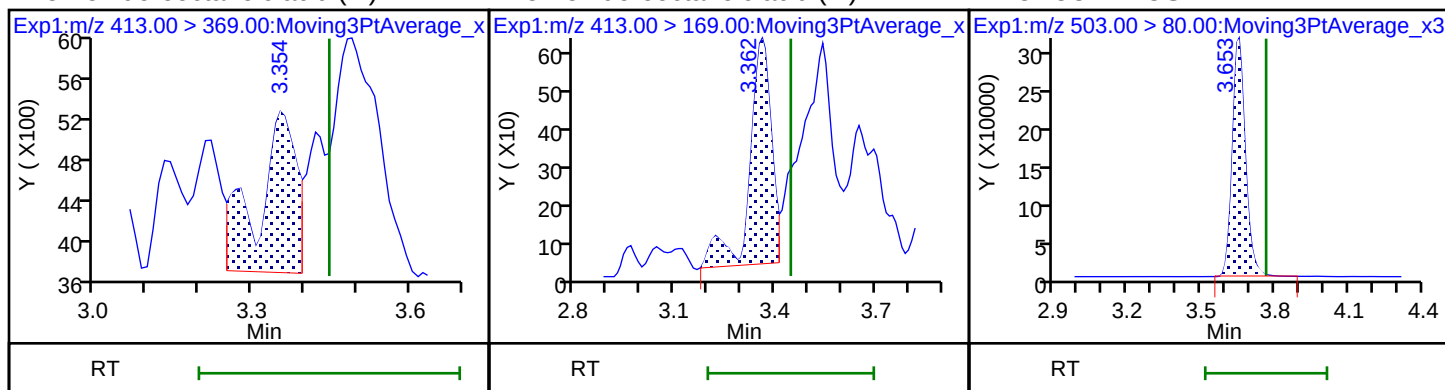
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

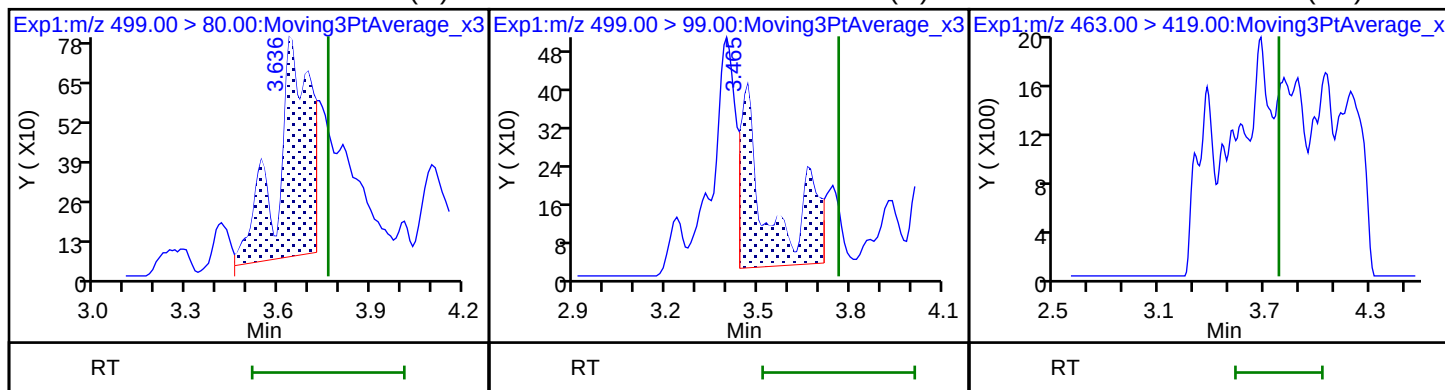
D 18 13C4 PFOS

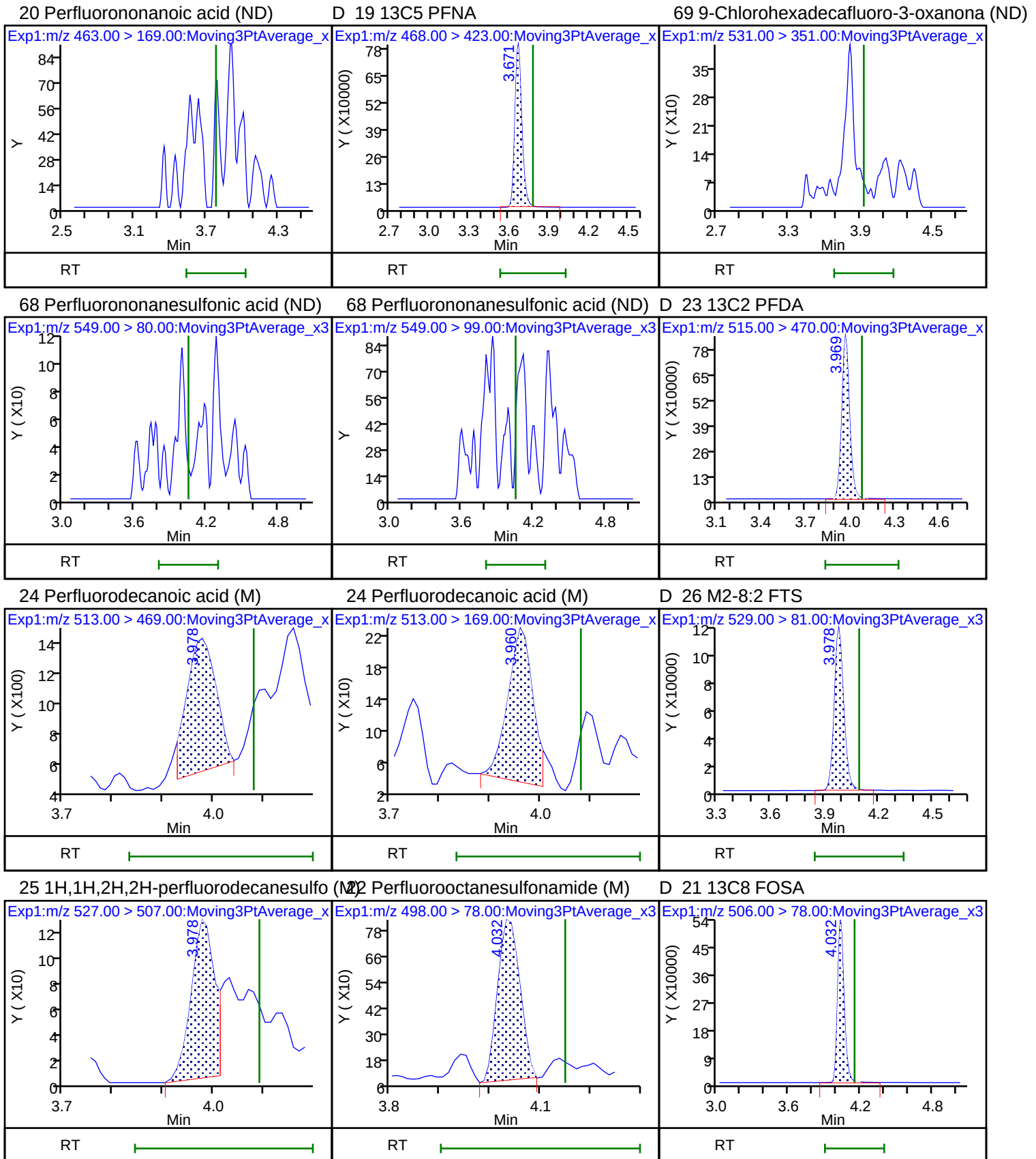


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (ND)

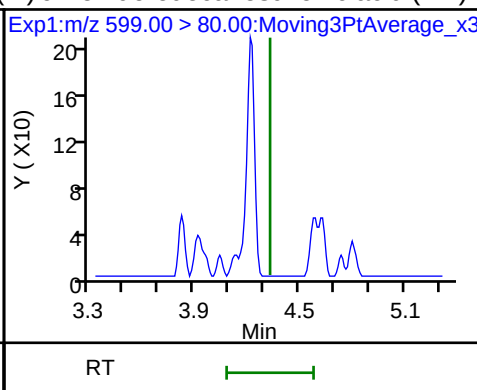
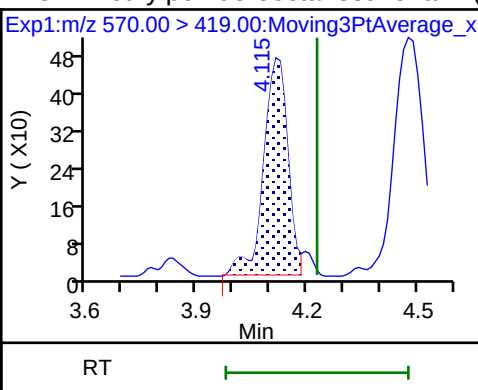
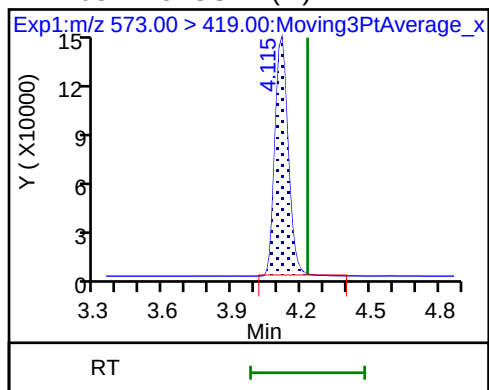




D 27 d3-NMeFOSAA (M)

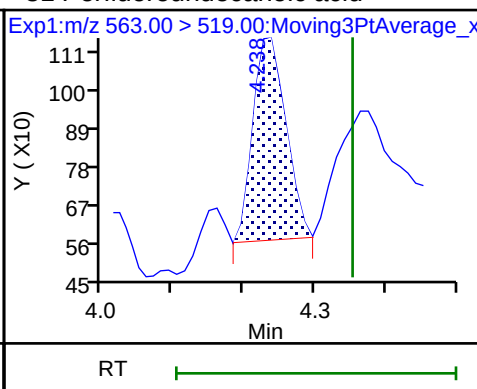
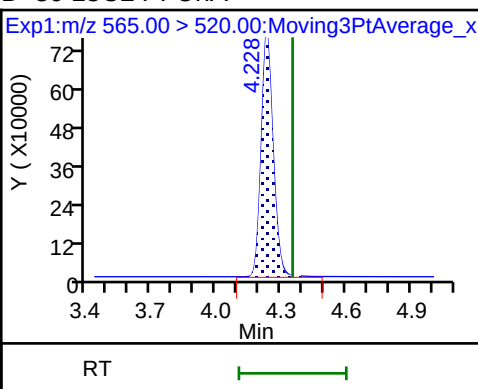
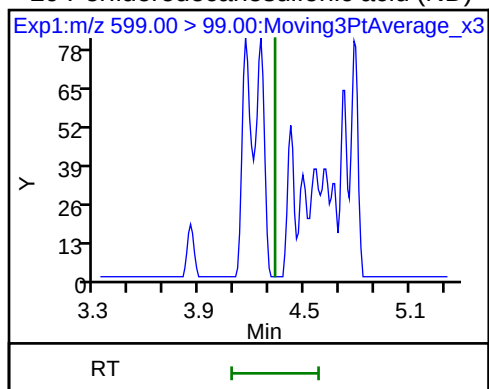
28 N-methylperfluorooctanesulfonami (M)

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

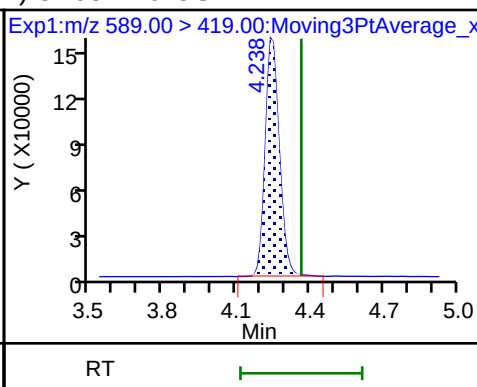
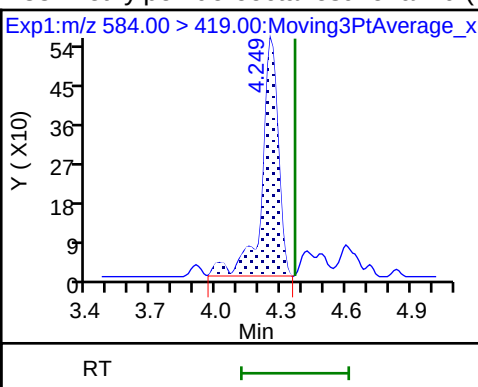
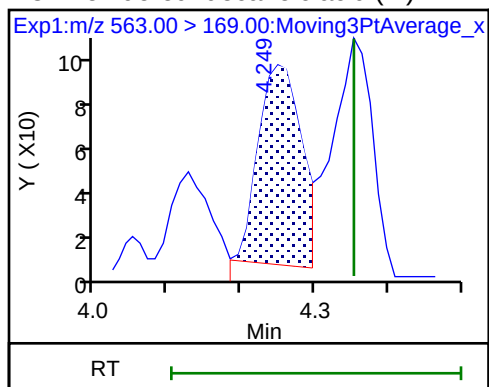
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid (M)

33 N-ethylperfluorooctanesulfonamid (M)

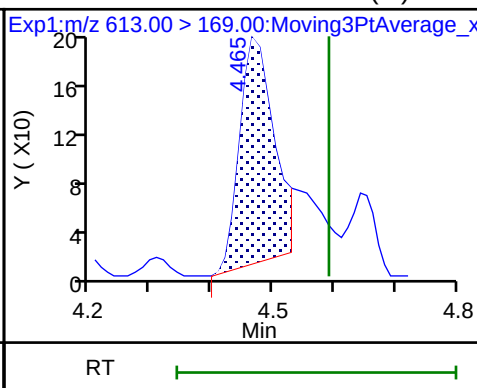
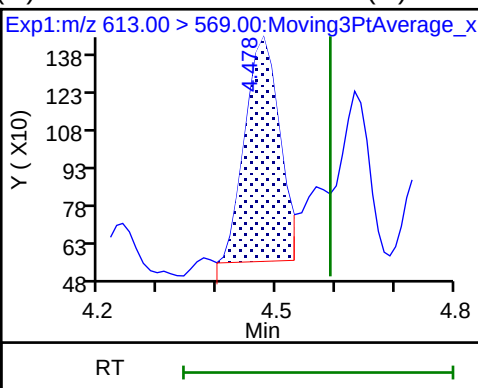
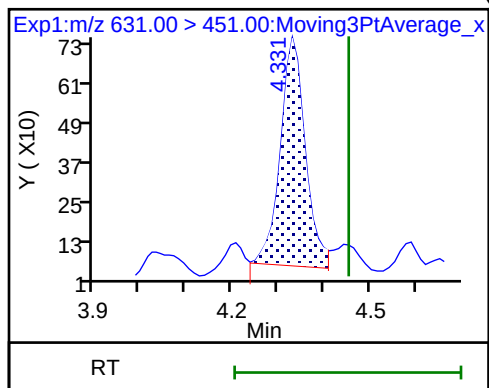
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

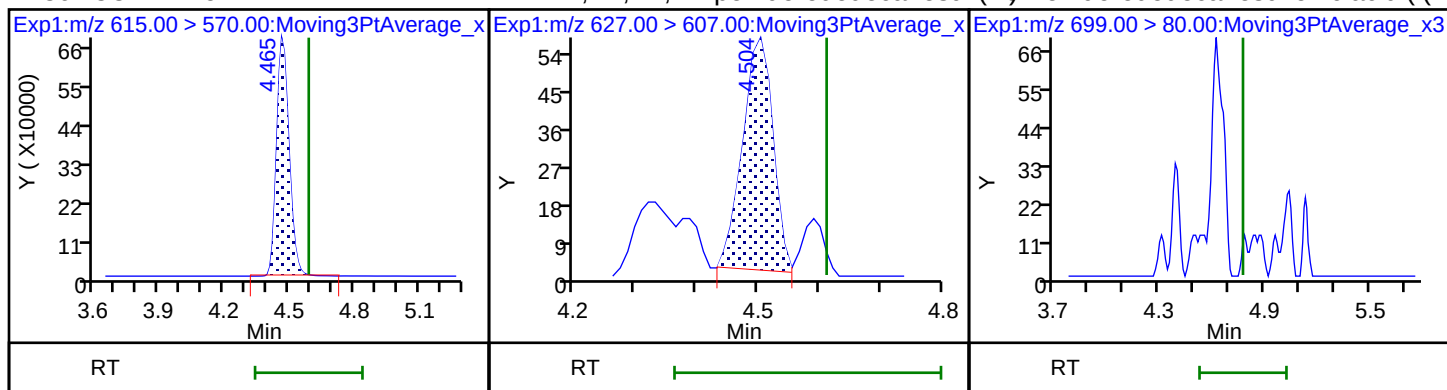
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



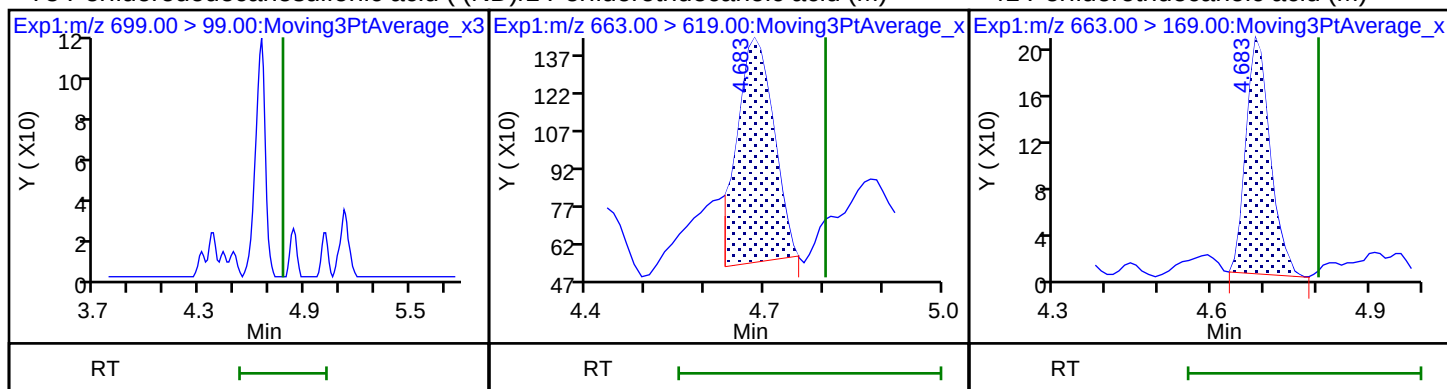
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (M)

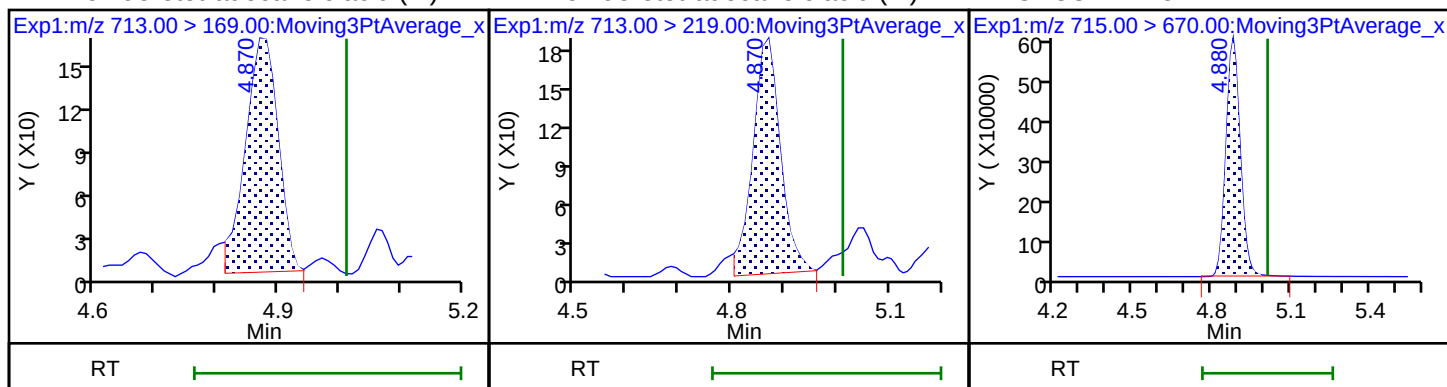
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

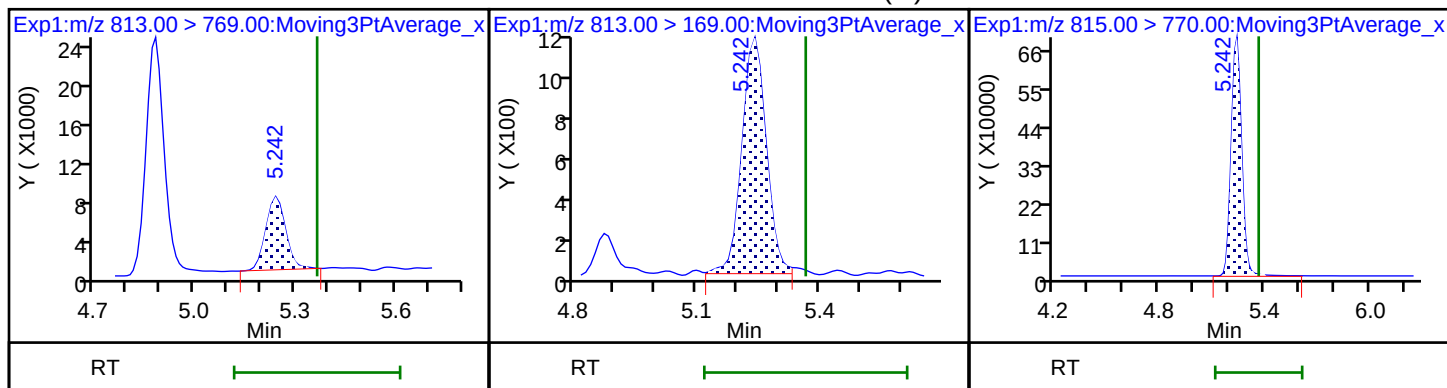
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

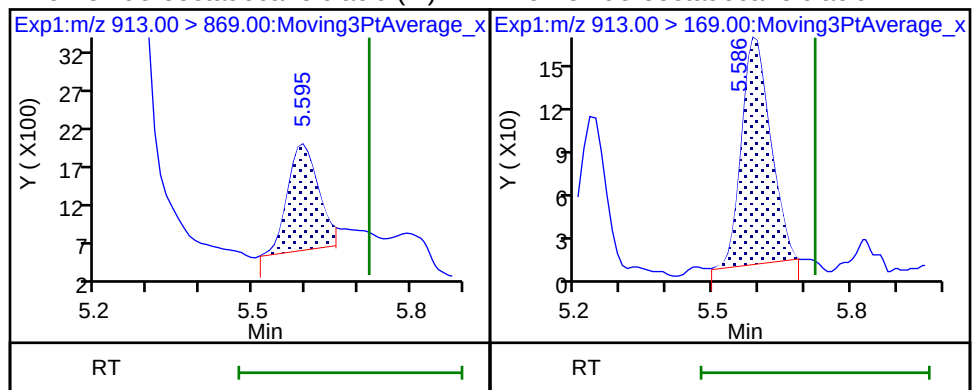
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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)

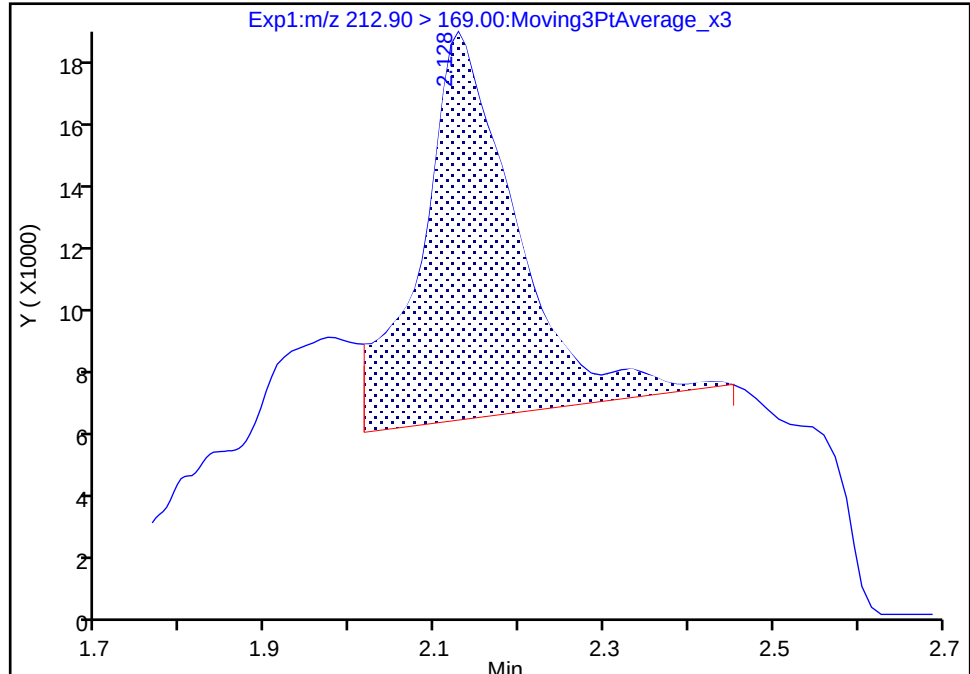
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

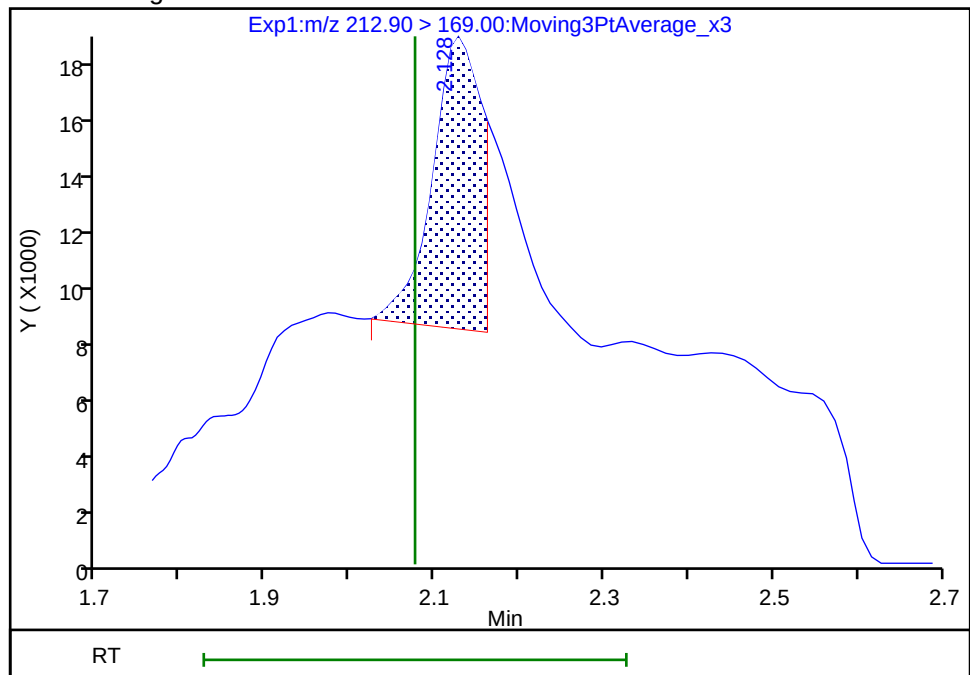
RT: 2.13
Area: 99229
Amount: 0.042076
Amount Units: ng/ml

Processing Integration Results



RT: 2.13
Area: 41329
Amount: 0.017525
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:38:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

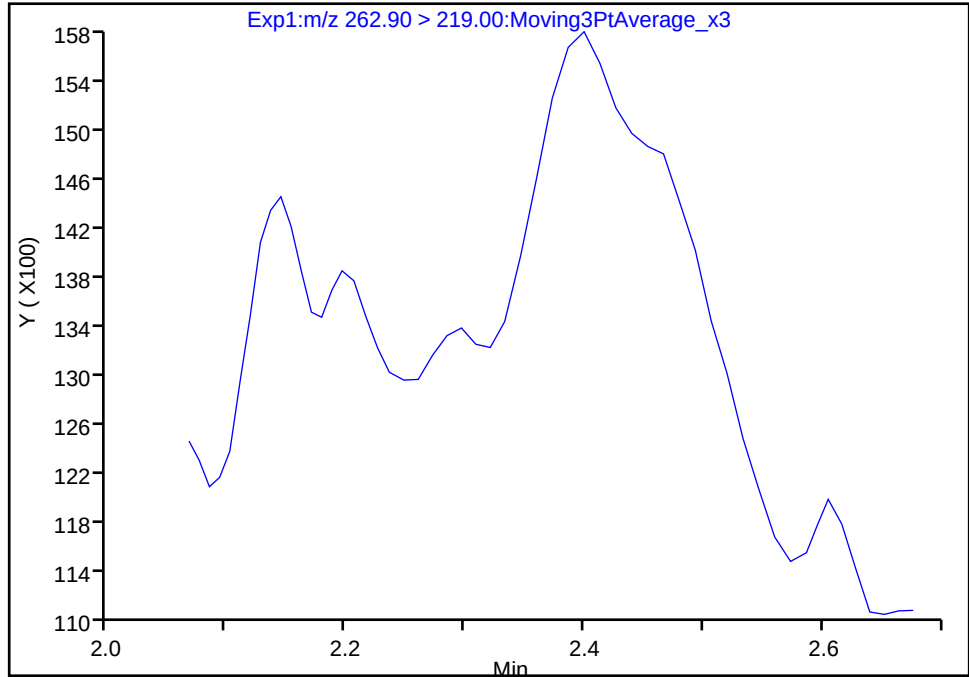
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

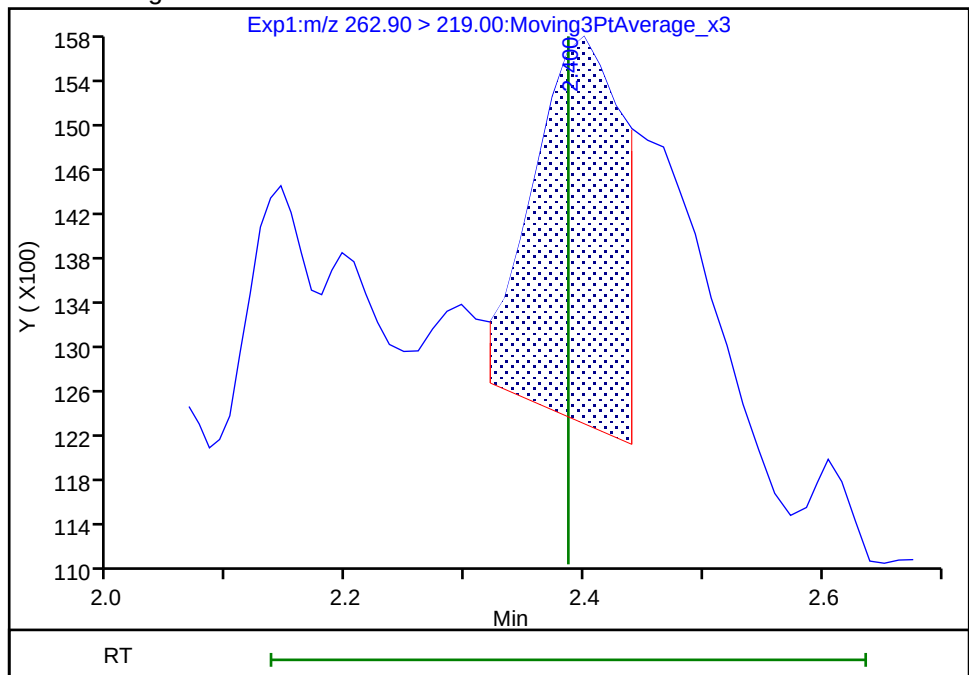
Not Detected
Expected RT: 2.39

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 17136
Amount: 0.008931
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 12:38:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

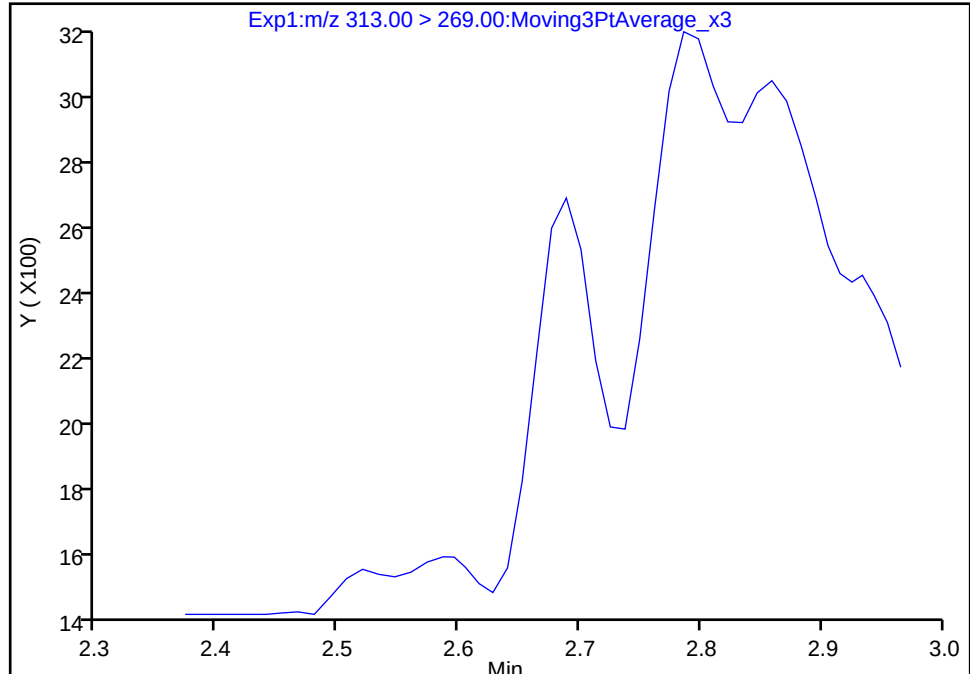
6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

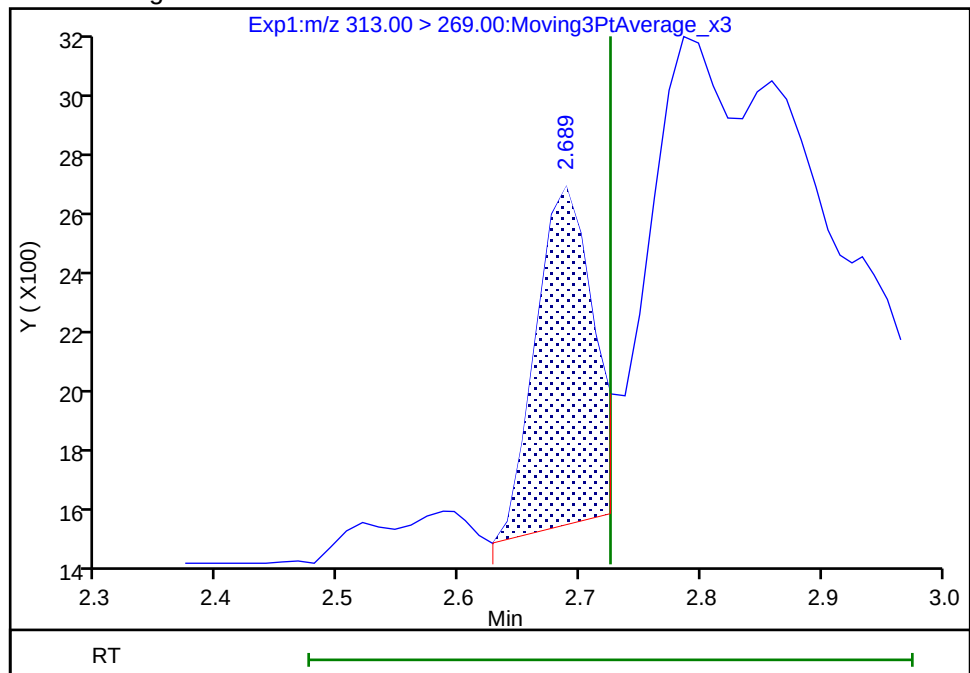
Not Detected

Expected RT: 2.73

Processing Integration Results



Manual Integration Results



RT: 2.69

Area: 3385

Amount: 0.001538

Amount Units: ng/ml

Reviewer: Z1IP, 04-Jan-2023 11:23:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

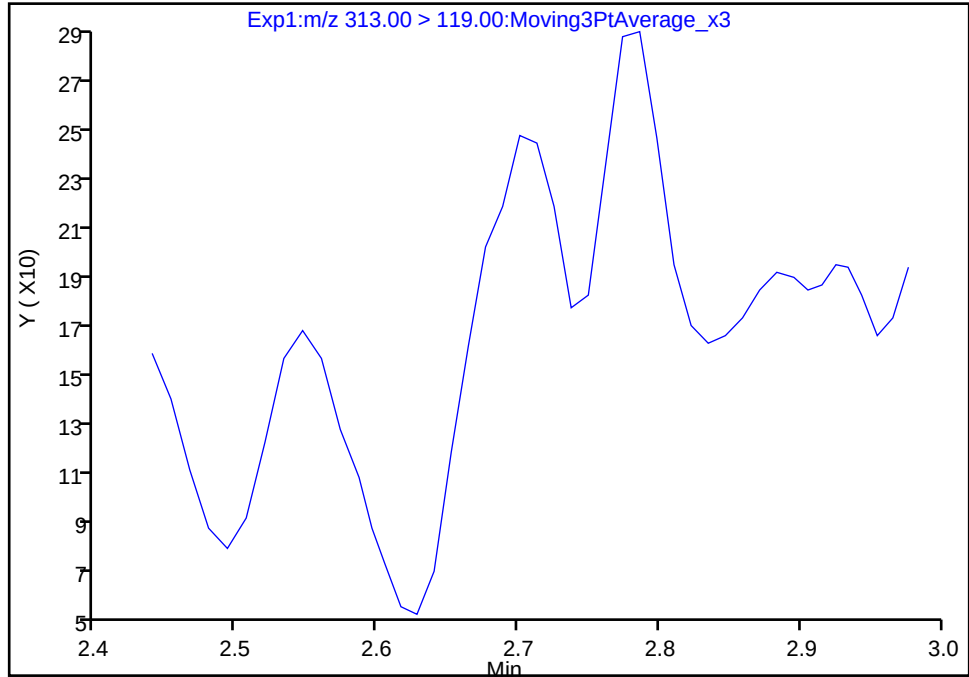
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

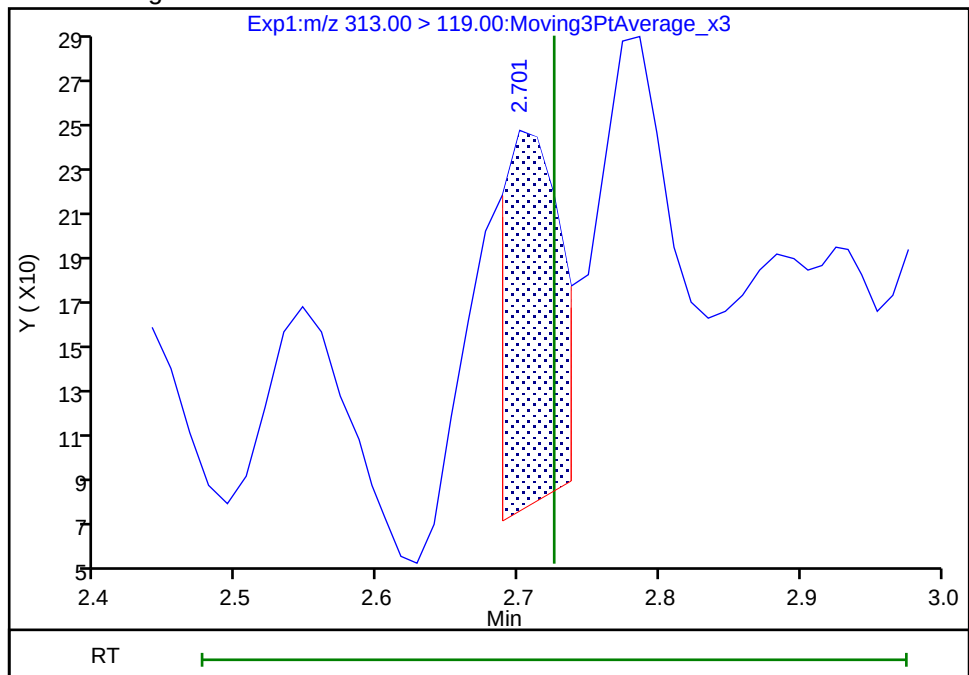
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.70
Area: 413
Amount: 0.001538
Amount Units: ng/ml



Reviewer: Z1IP, 04-Jan-2023 11:24:01

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

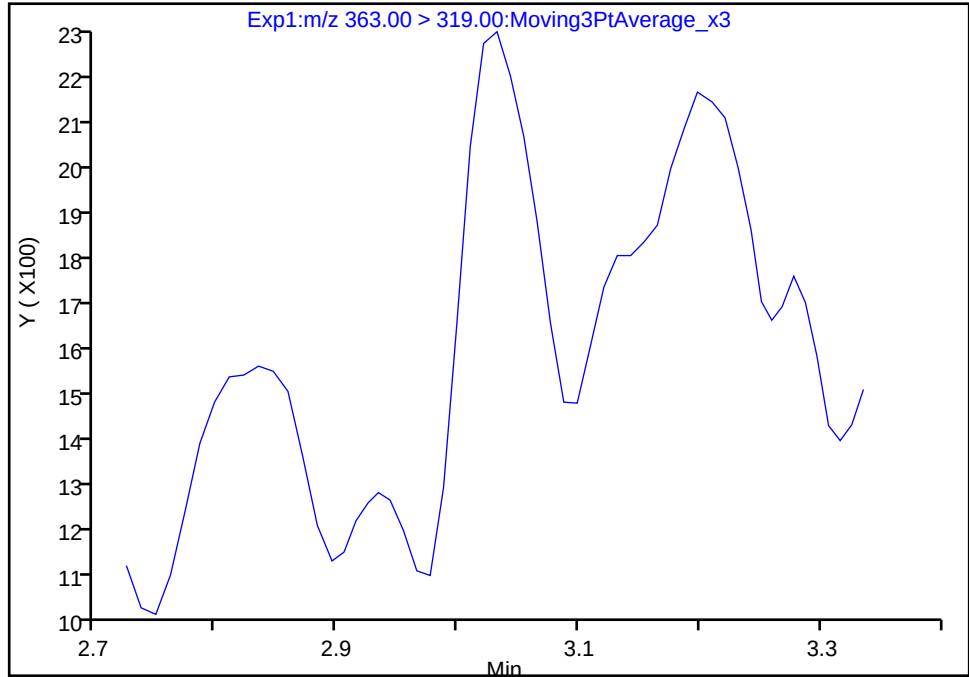
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

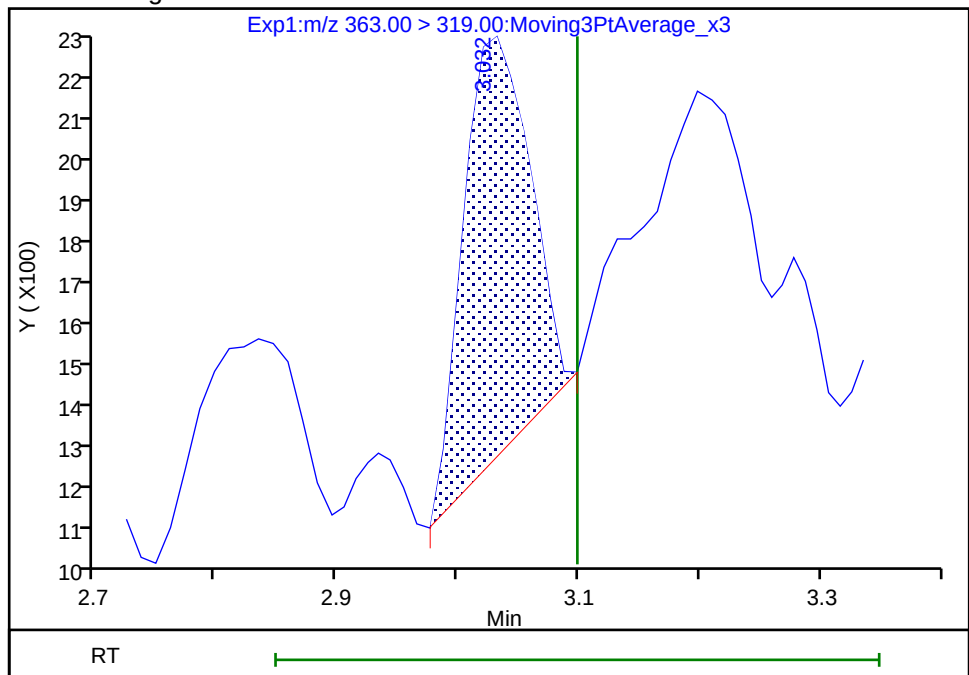
Signal: 1

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.03
Area: 3832
Amount: 0.001662
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:54:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

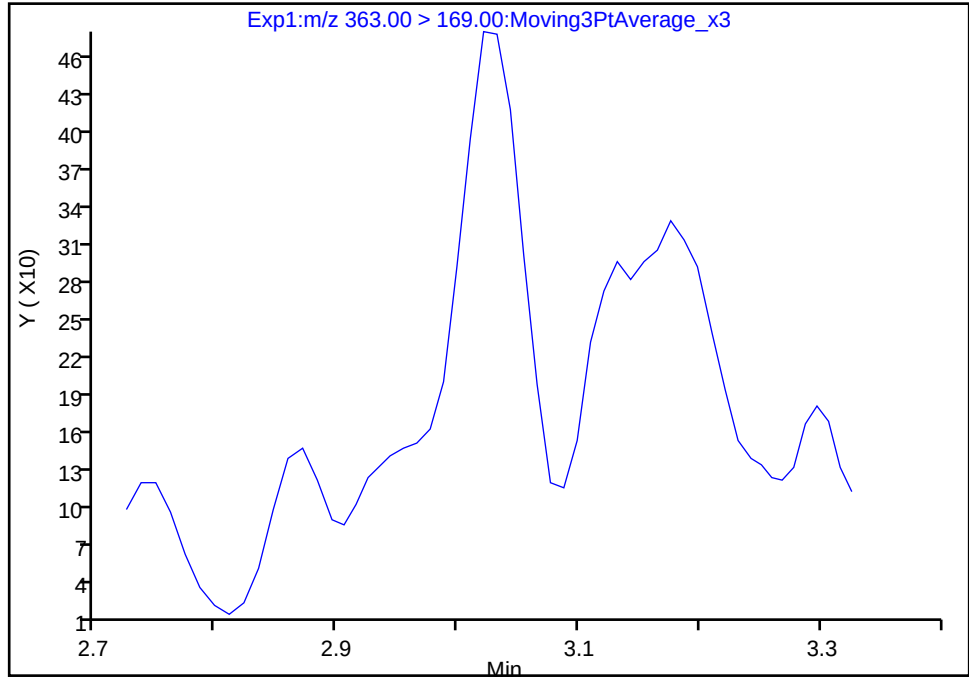
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

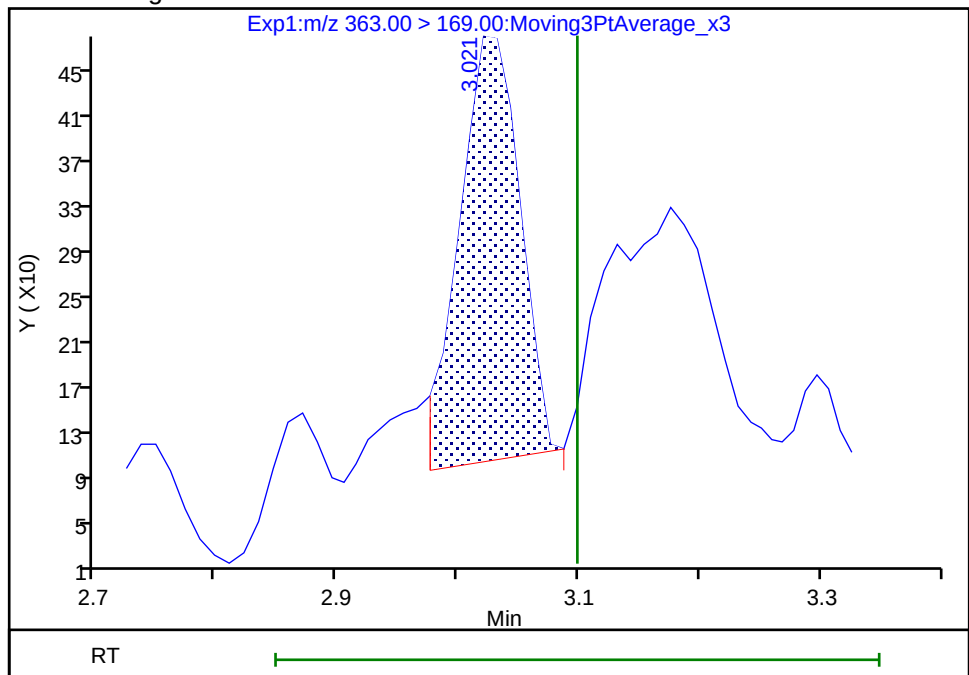
Signal: 2

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.02
Area: 1276
Amount: 0.001662
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:54:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 885 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

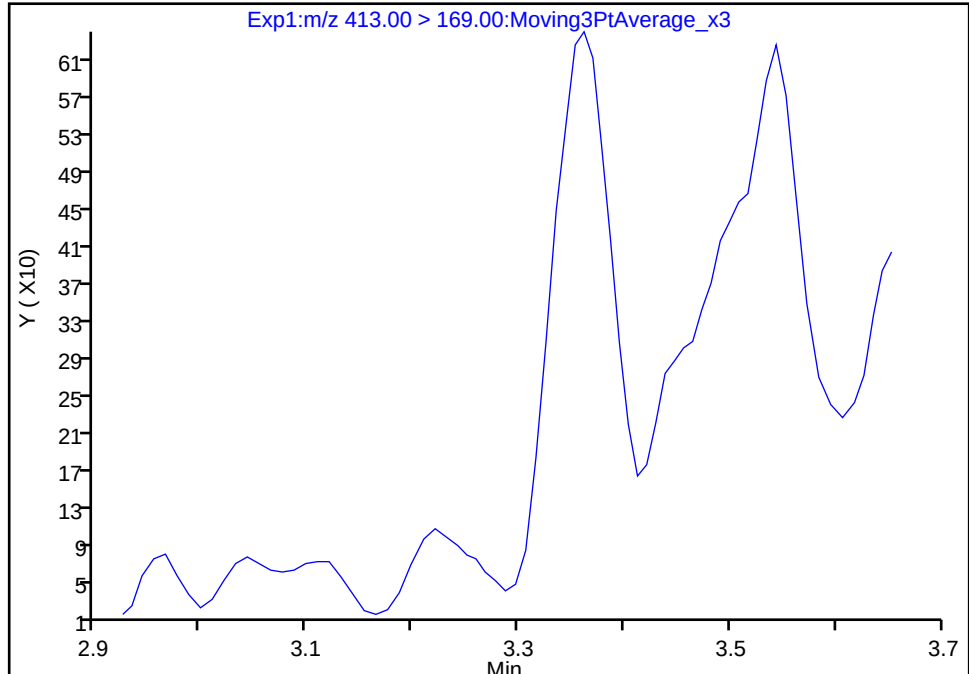
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

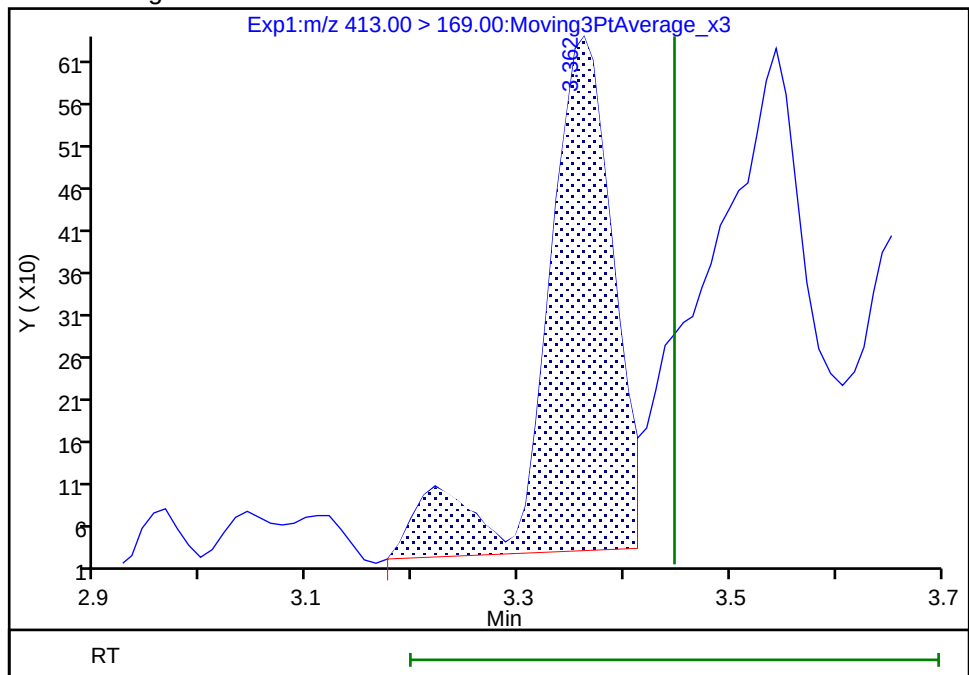
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 2713
Amount: 0.003124
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 12:55:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

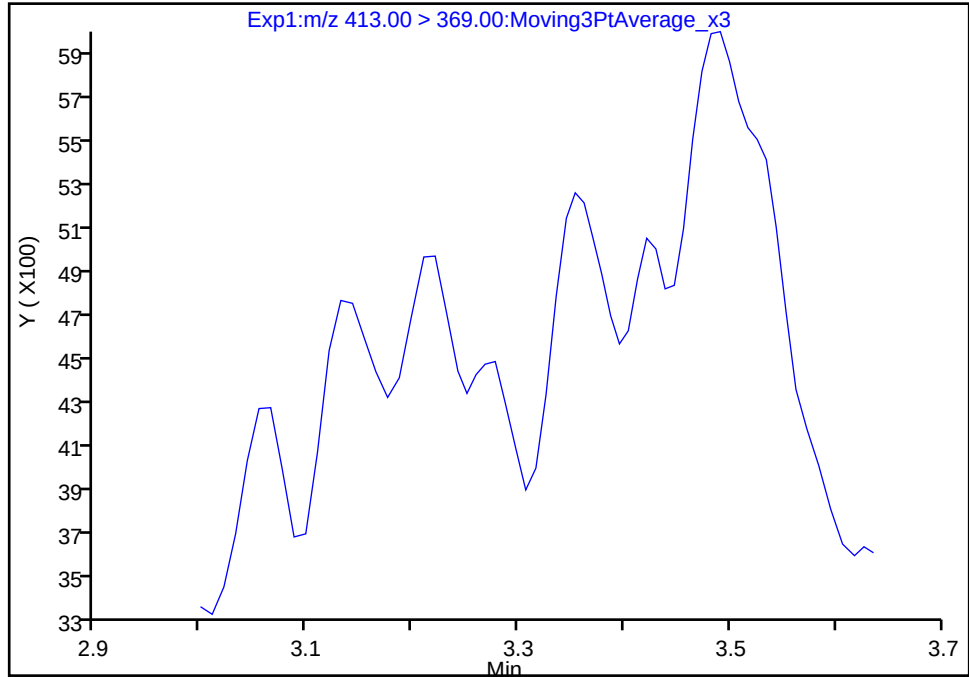
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

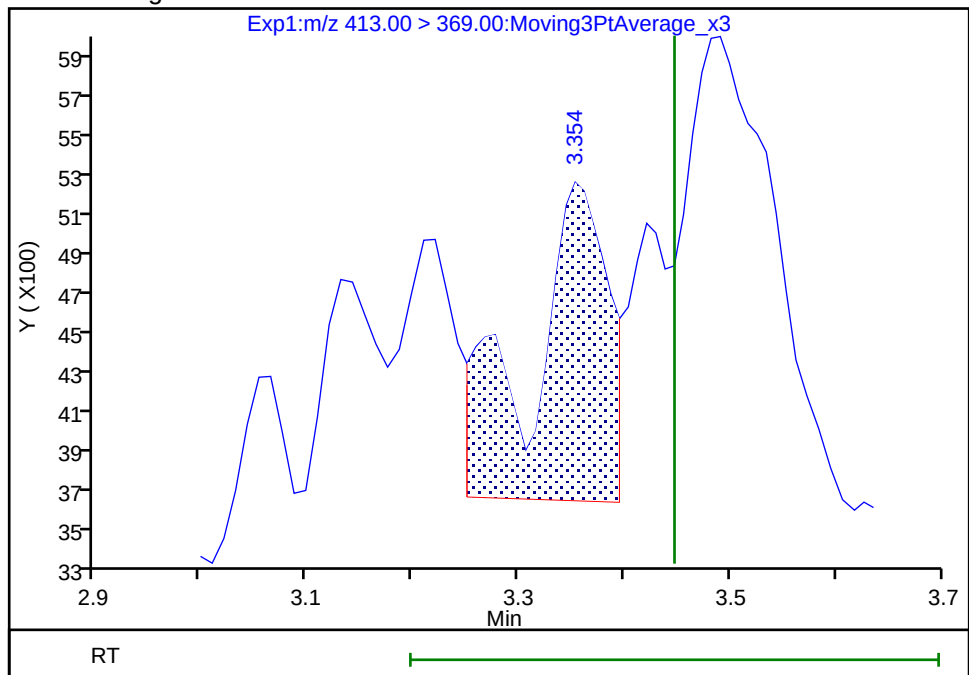
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.35
Area: 7808
Amount: 0.003124
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 12:55:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 887 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

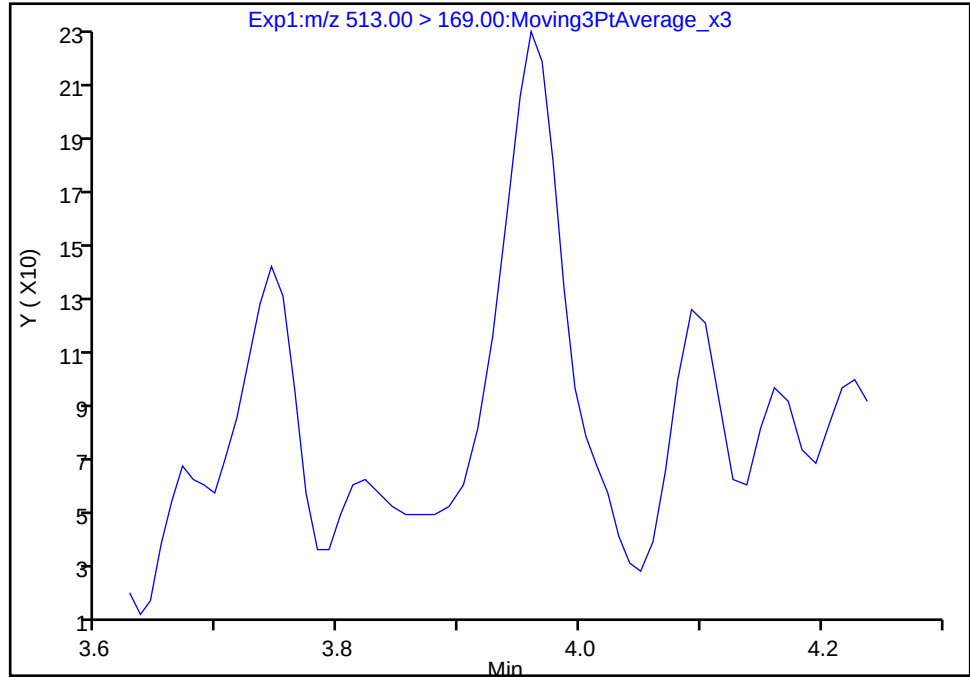
24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

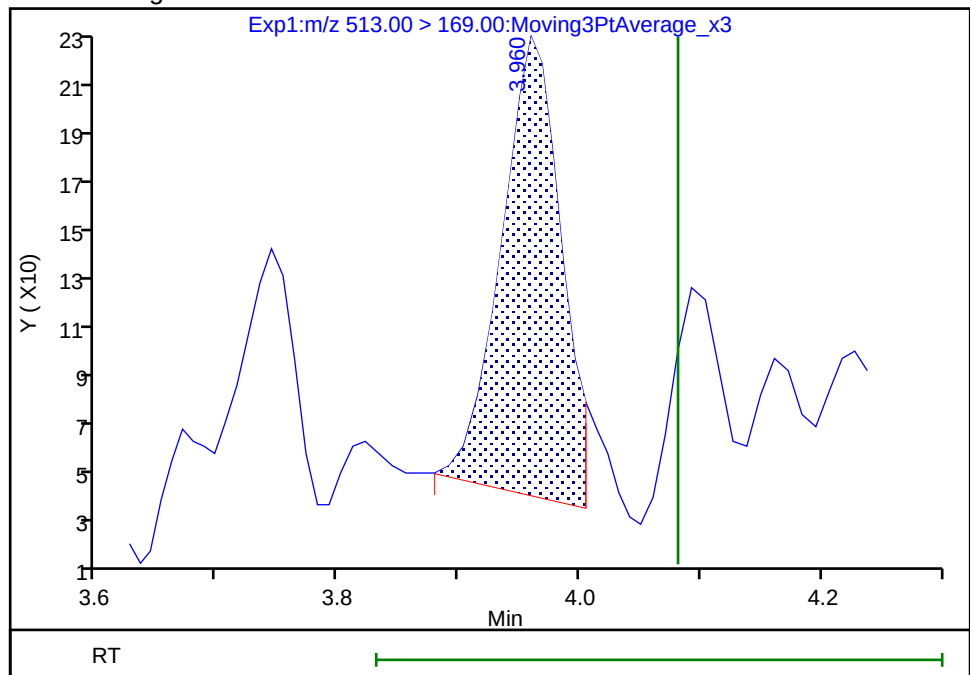
Not Detected

Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 3.96

Area: 646

Amount: 0.001250

Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:56:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

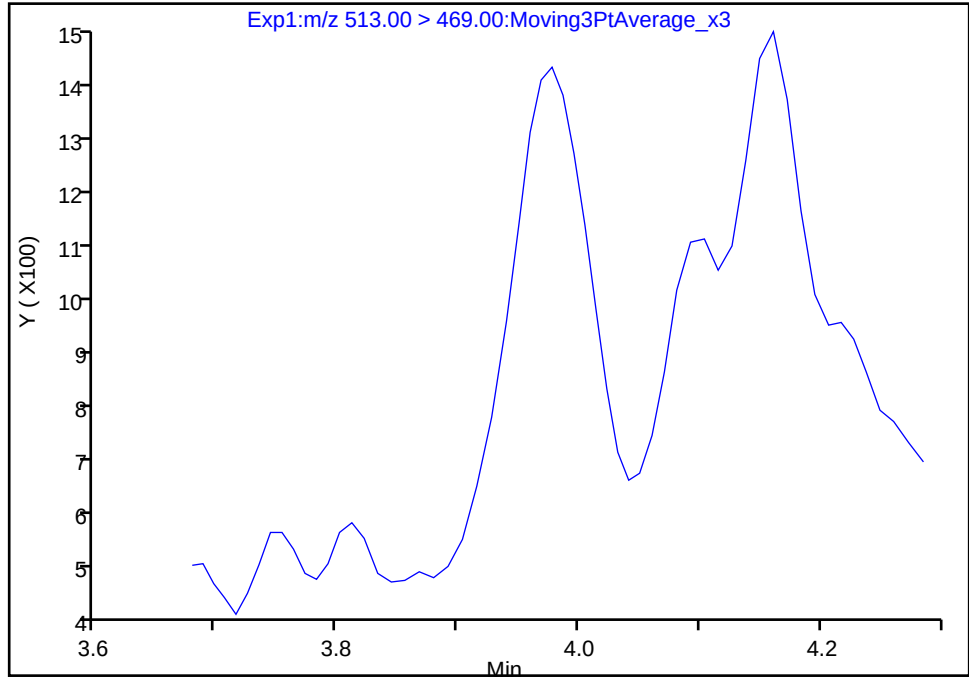
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

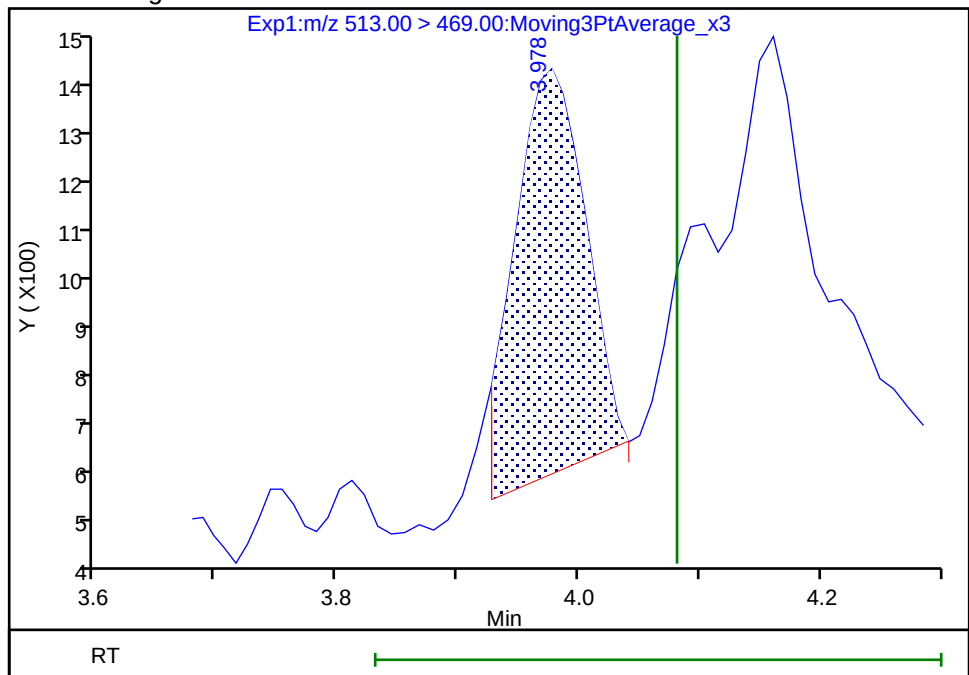
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 3.98
Area: 3367
Amount: 0.001250
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 12:56:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 889 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

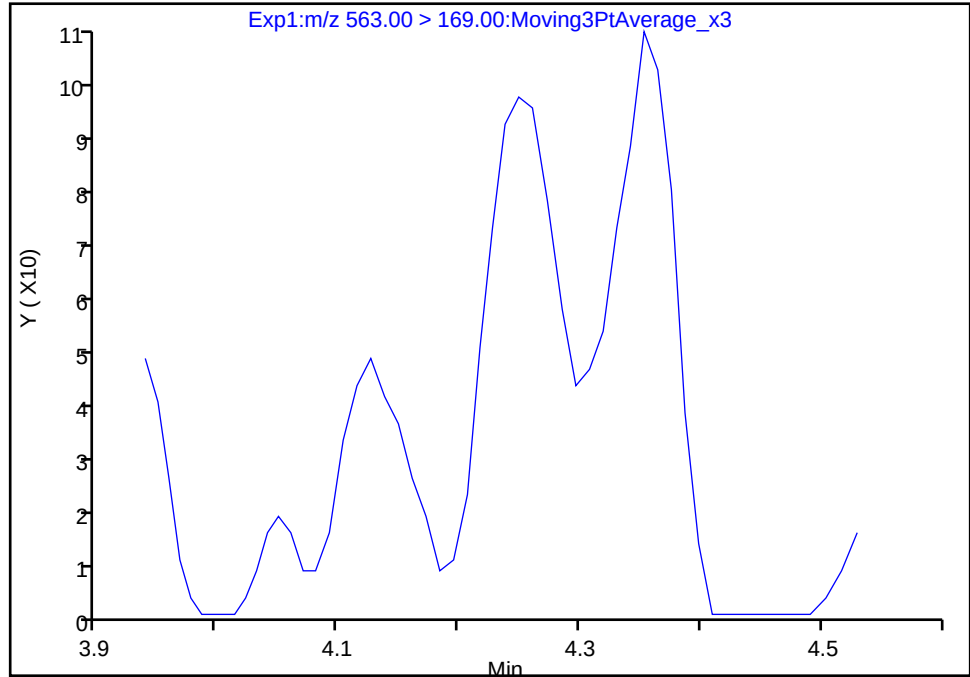
31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

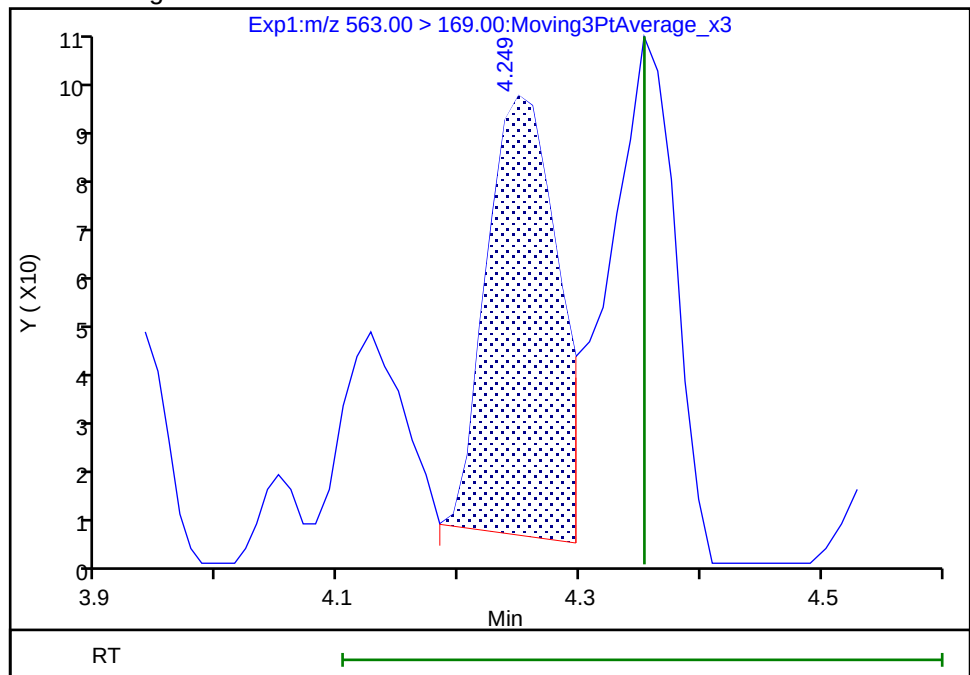
Not Detected

Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.25

Area: 357

Amount: 0.000787

Amount Units: ng/ml

Reviewer: Z1IP, 04-Jan-2023 11:24:36

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

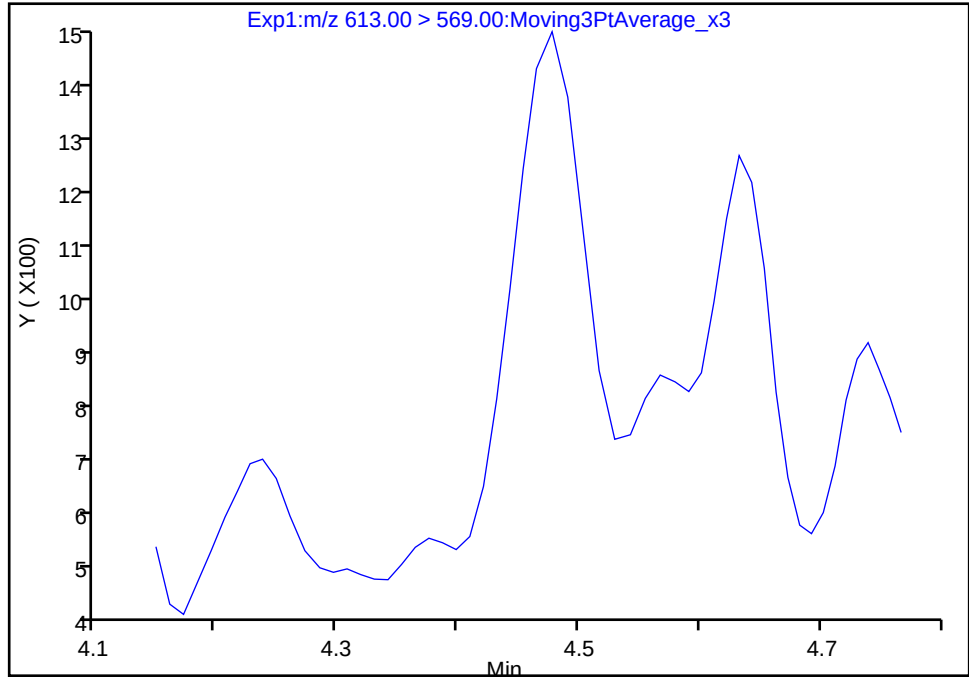
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

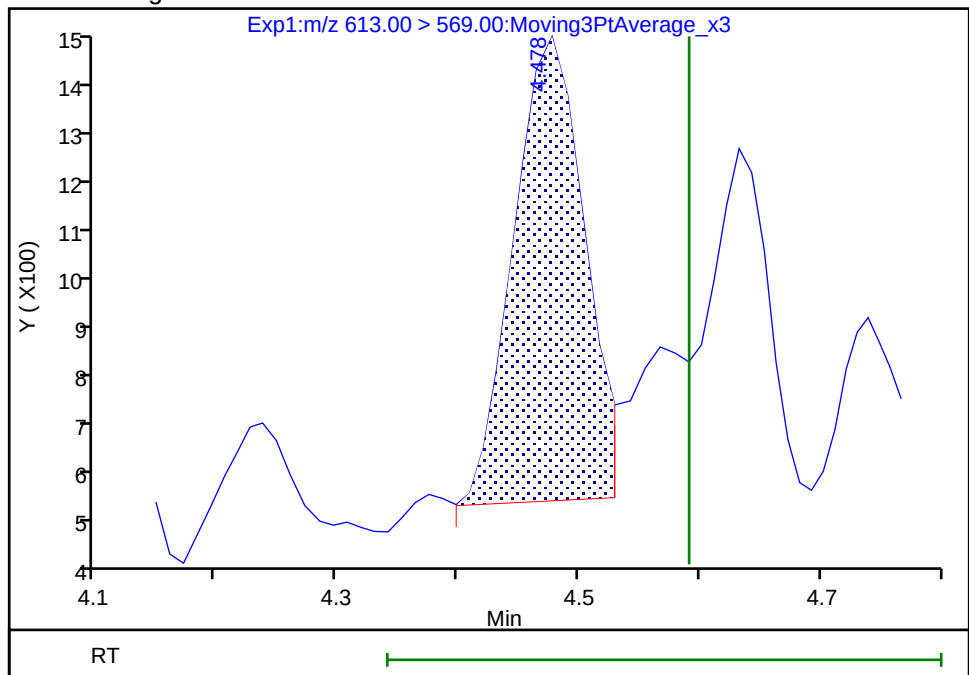
Signal: 1

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.48
Area: 3648
Amount: 0.001569
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:57:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

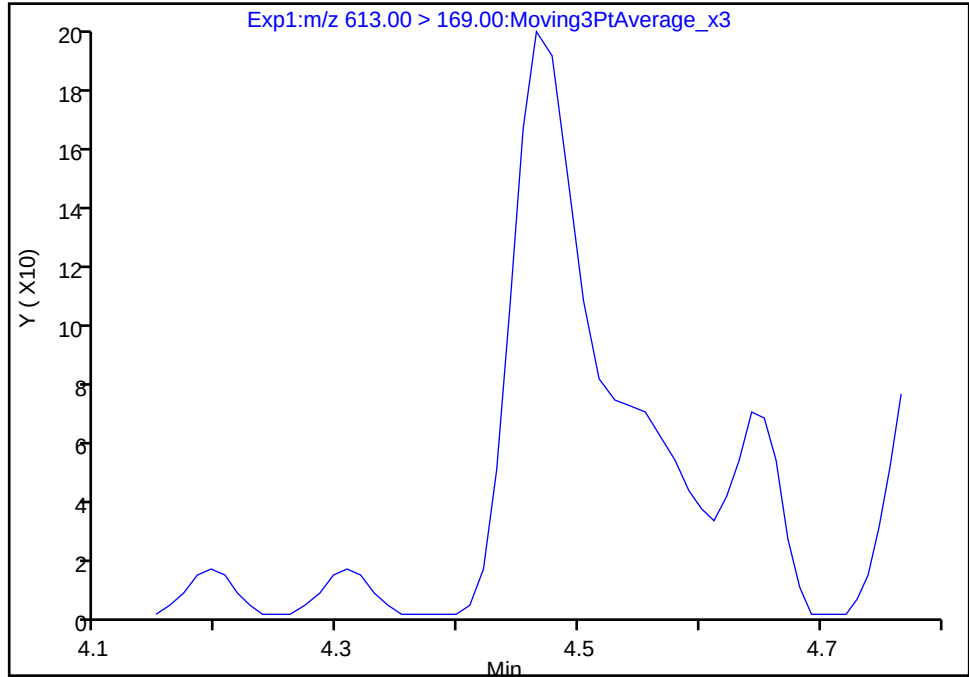
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

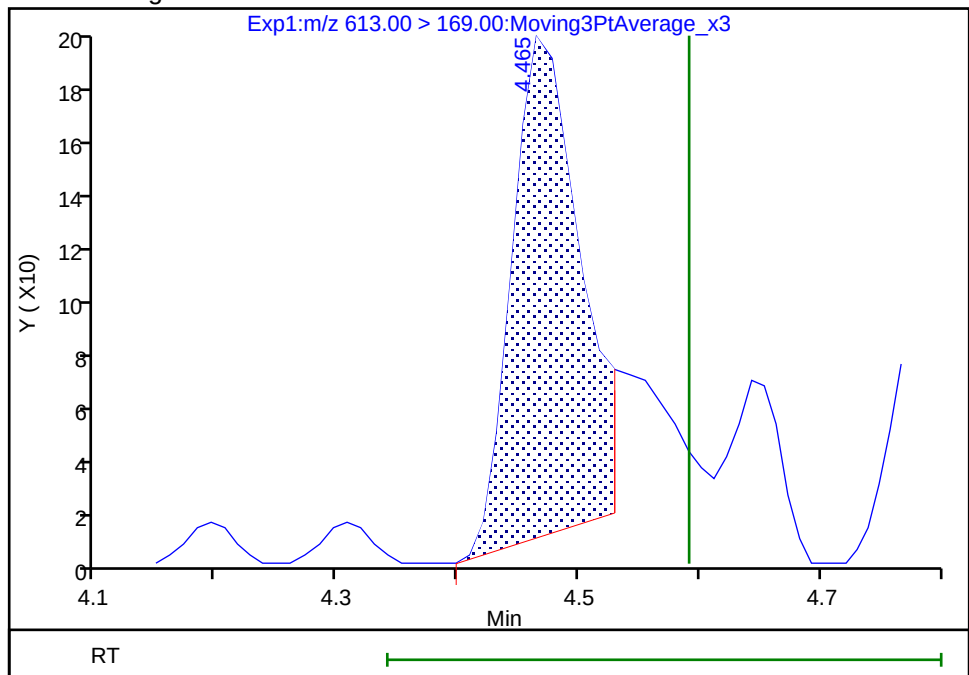
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 710
Amount: 0.001569
Amount Units: ng/ml



Reviewer: nampitakw, 04-Jan-2023 12:57:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 892 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

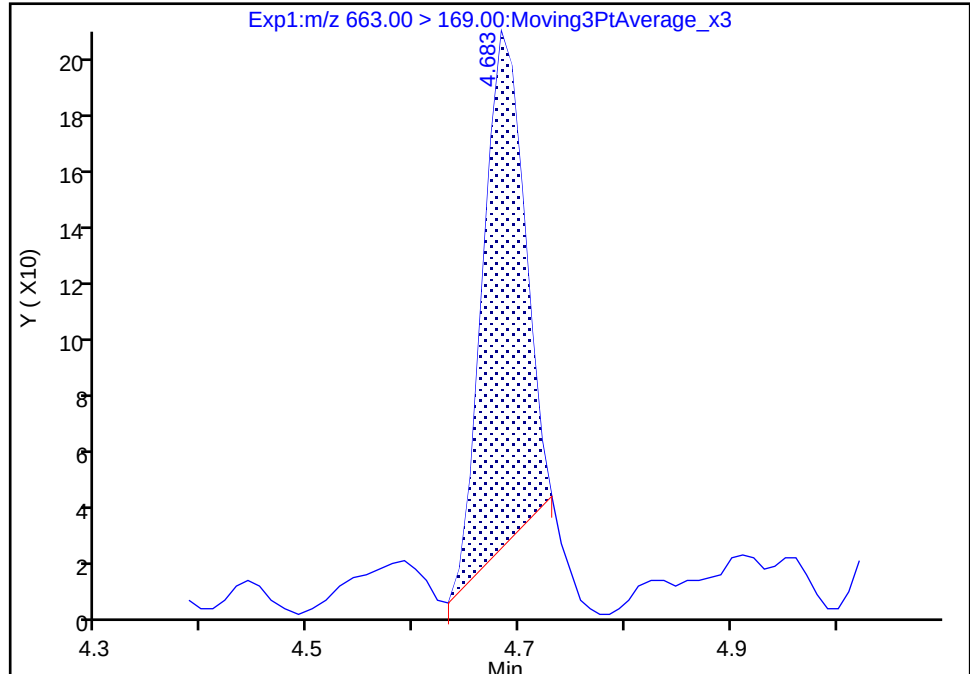
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

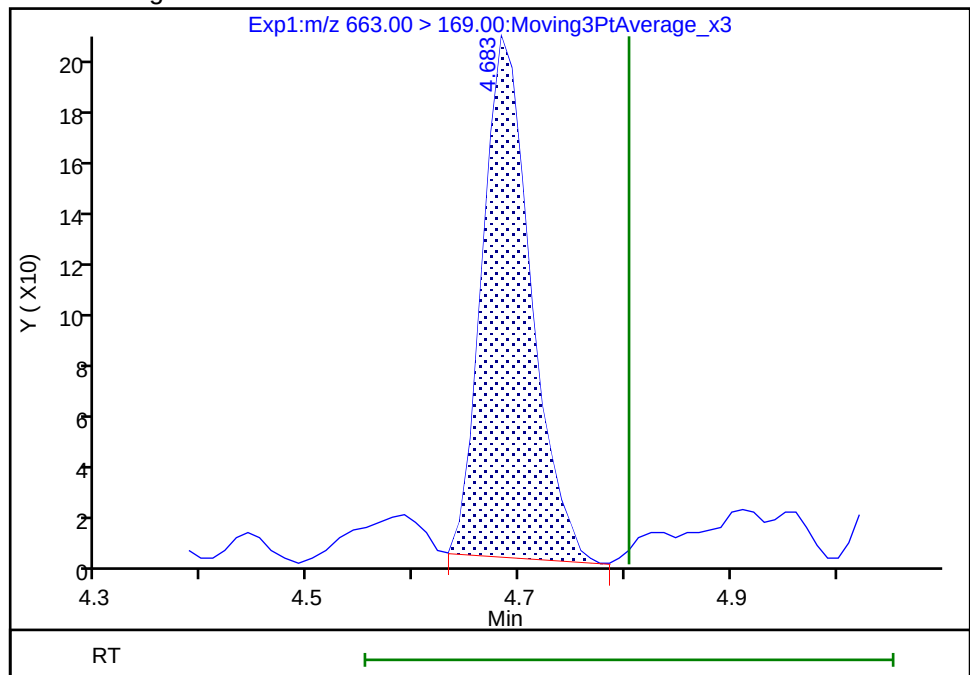
RT: 4.68
Area: 494
Amount: 0.001438
Amount Units: ng/ml

Processing Integration Results



RT: 4.68
Area: 647
Amount: 0.001718
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:58:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

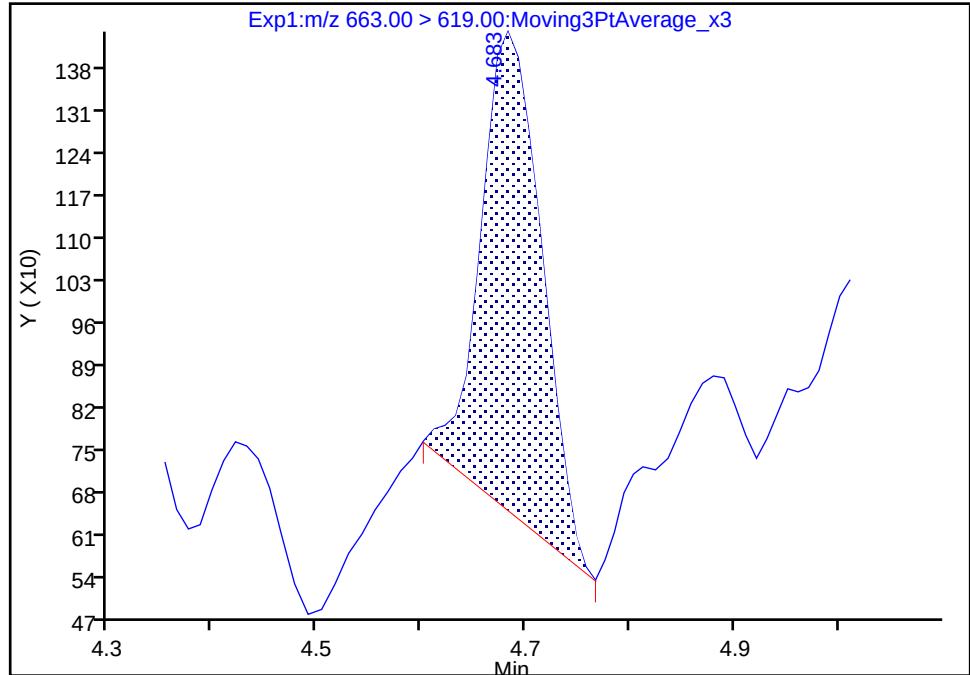
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

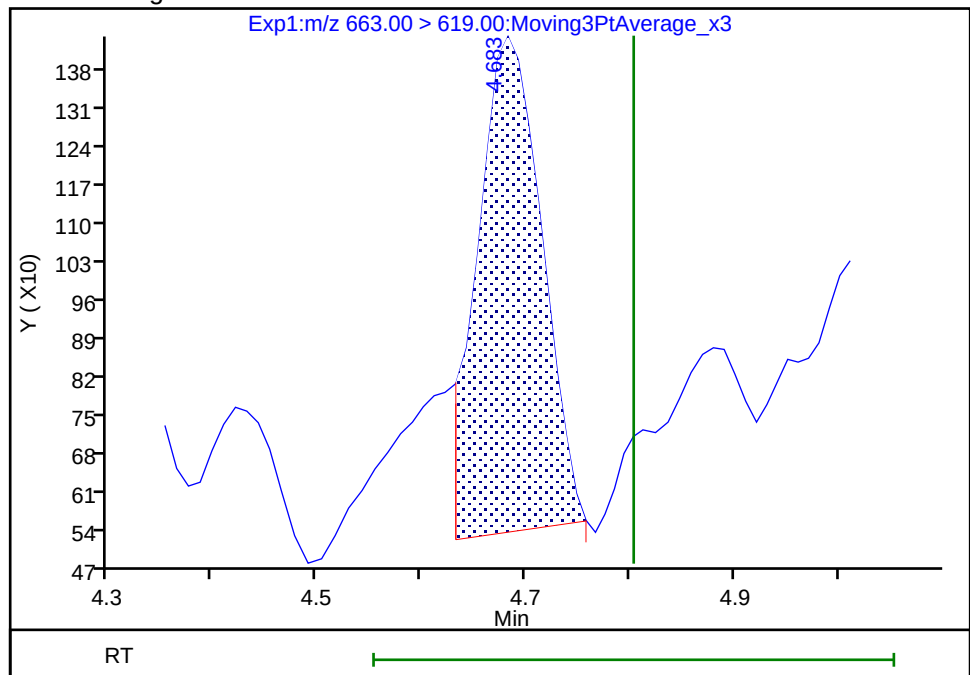
RT: 4.68
Area: 3199
Amount: 0.001438
Amount Units: ng/ml

Processing Integration Results



RT: 4.68
Area: 3821
Amount: 0.001718
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:58:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

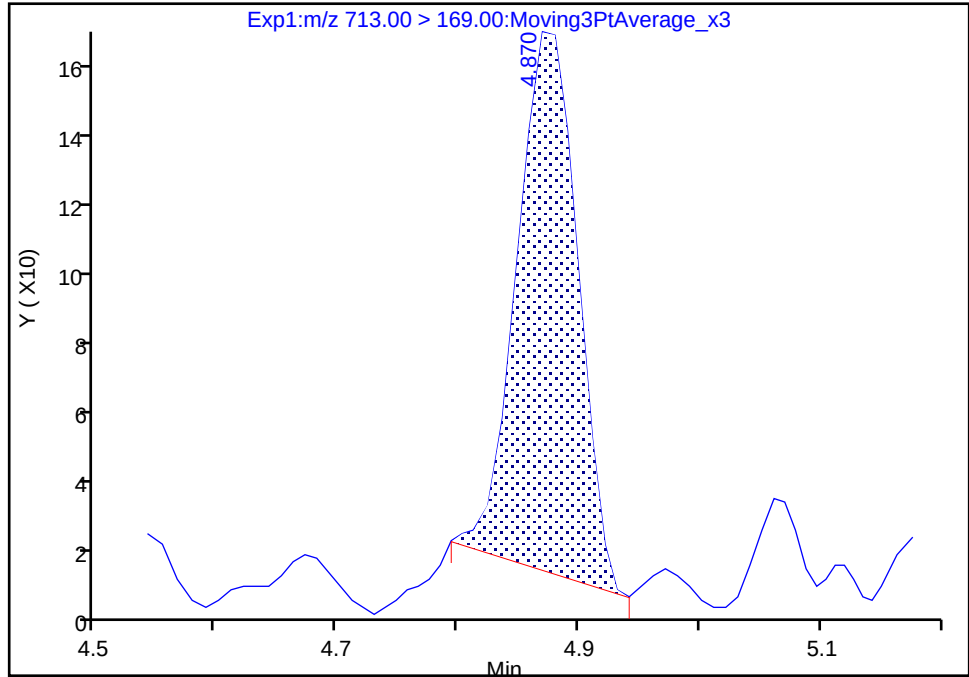
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

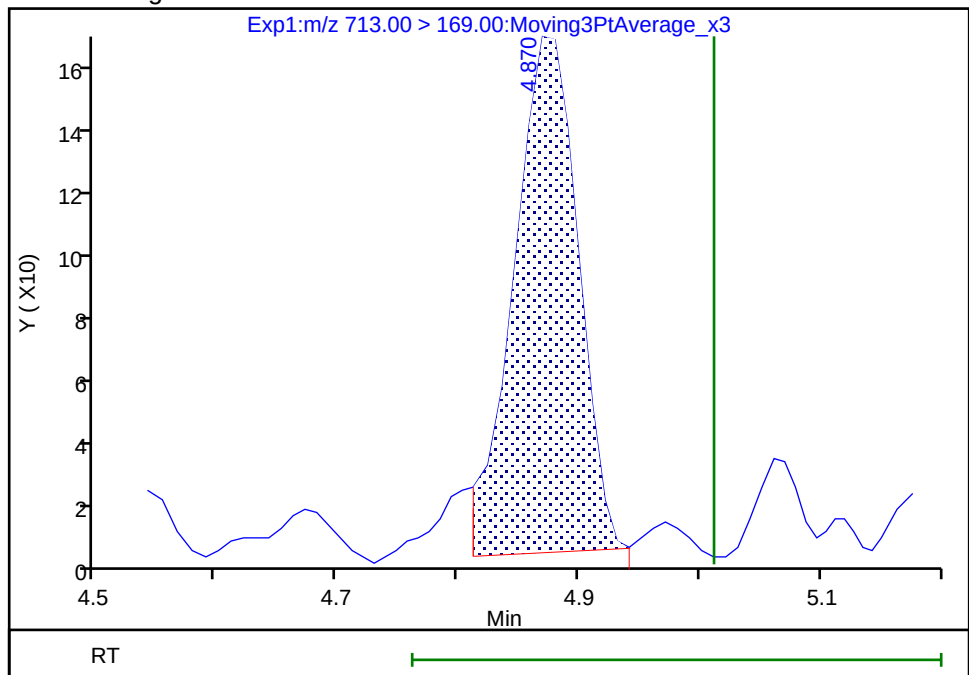
RT: 4.87
Area: 537
Amount: 0.002141
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 599
Amount: 0.002389
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:58:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

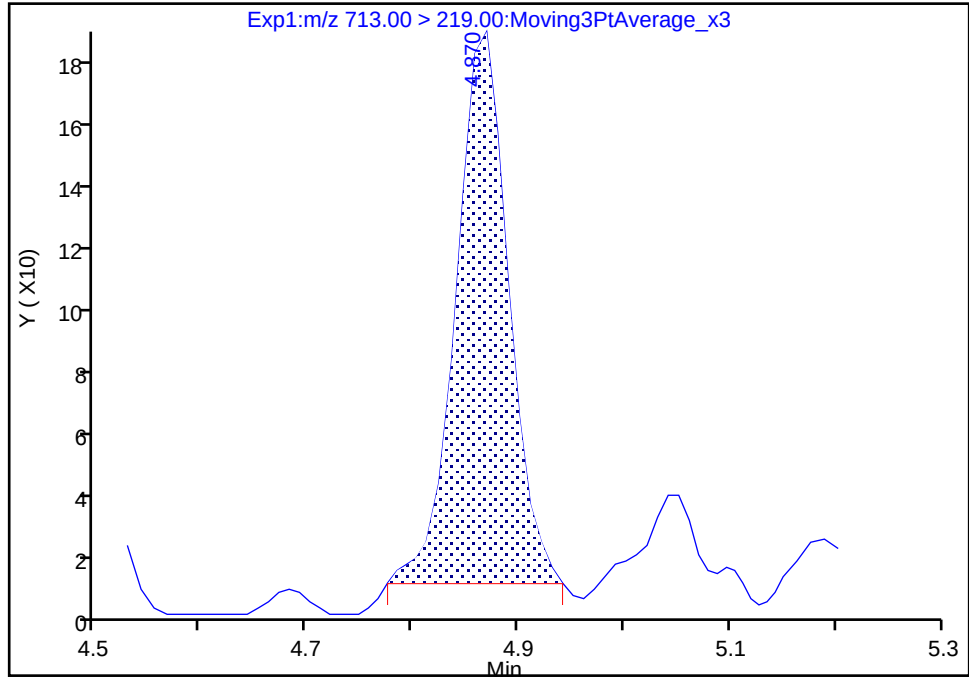
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

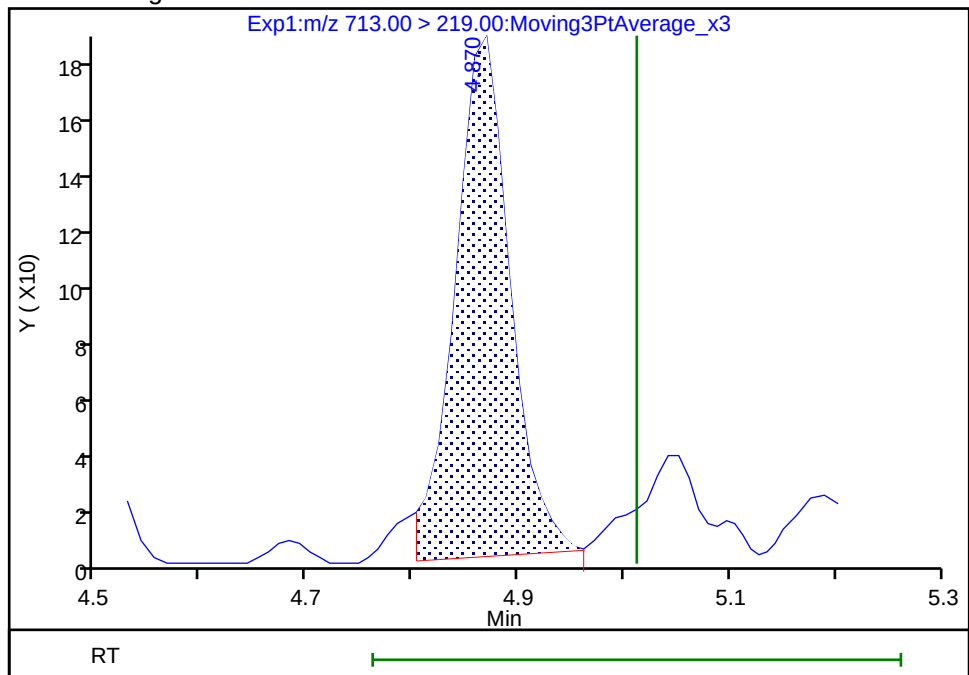
RT: 4.87
Area: 606
Amount: 0.002141
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 661
Amount: 0.002389
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:58:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 896 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

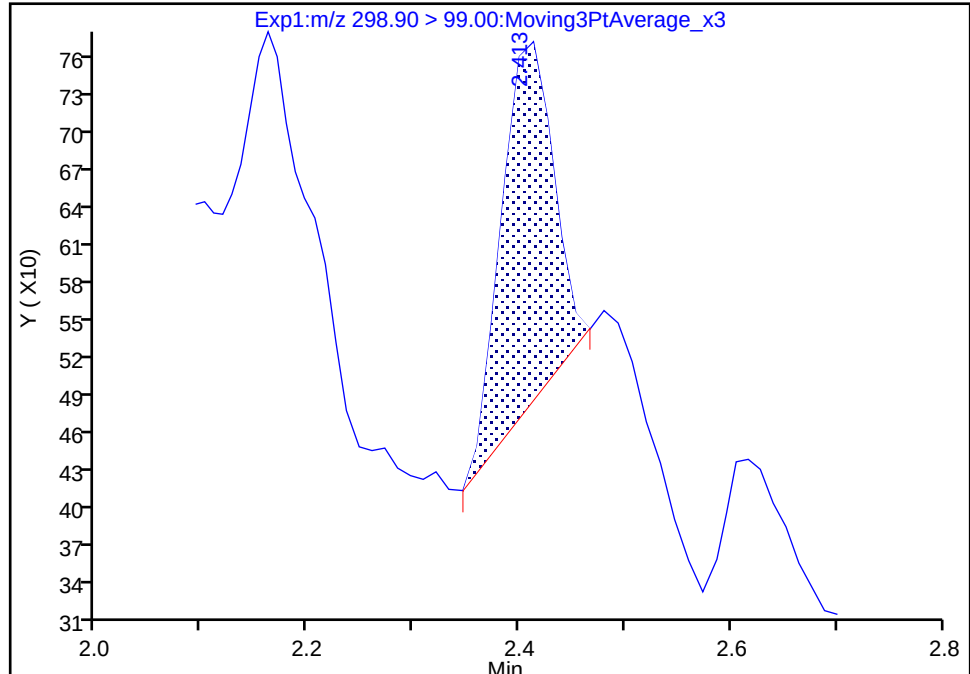
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

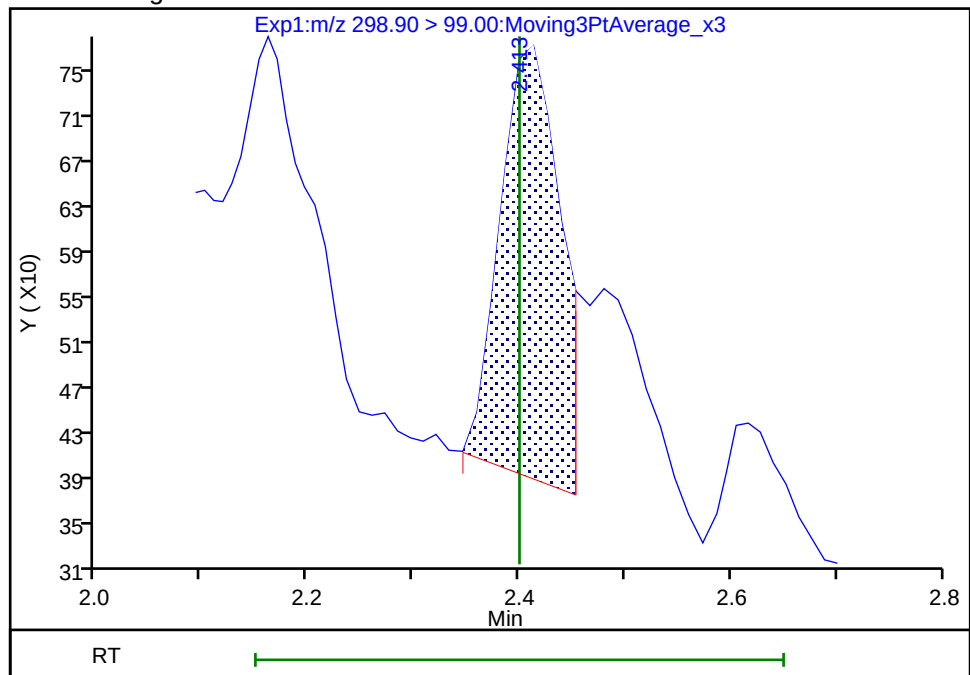
RT: 2.41
Area: 1002
Amount: 0.001387
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1480
Amount: 0.001838
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:53:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

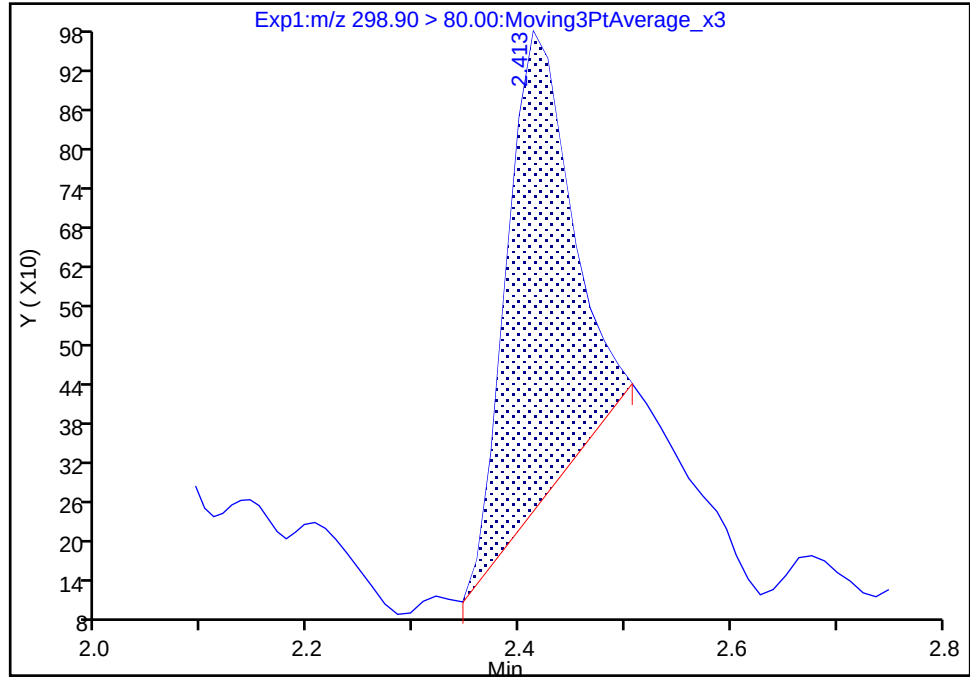
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

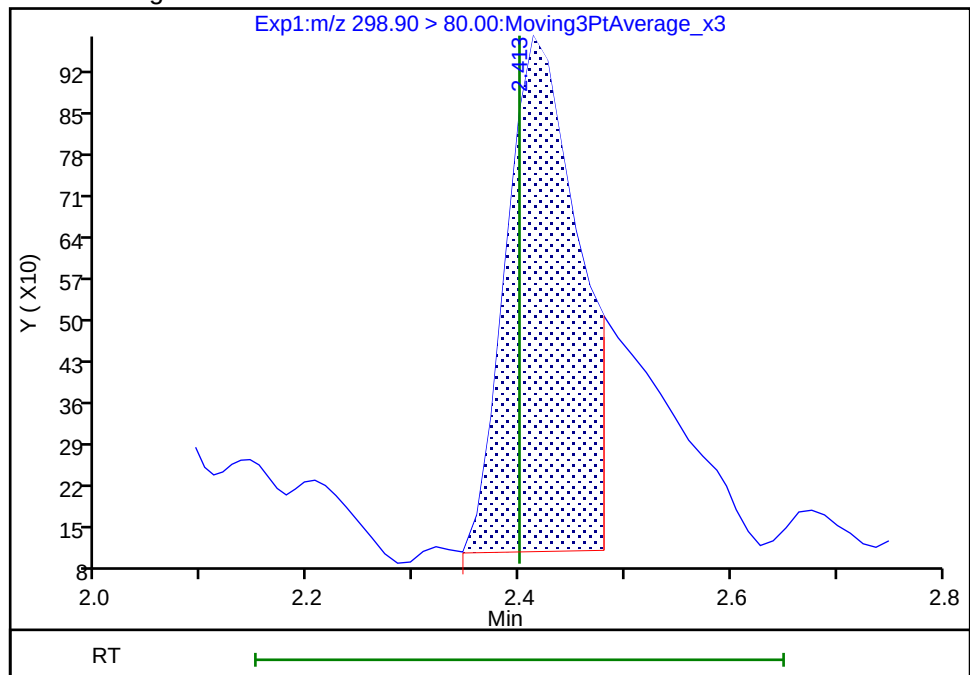
RT: 2.41
Area: 3091
Amount: 0.001387
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 4095
Amount: 0.001838
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:53:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

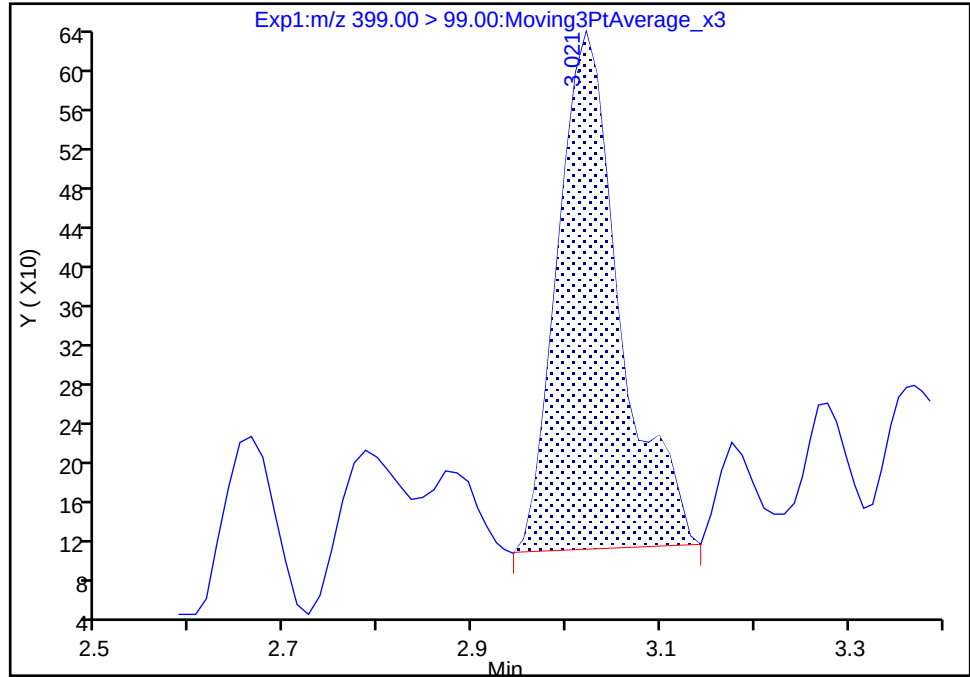
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

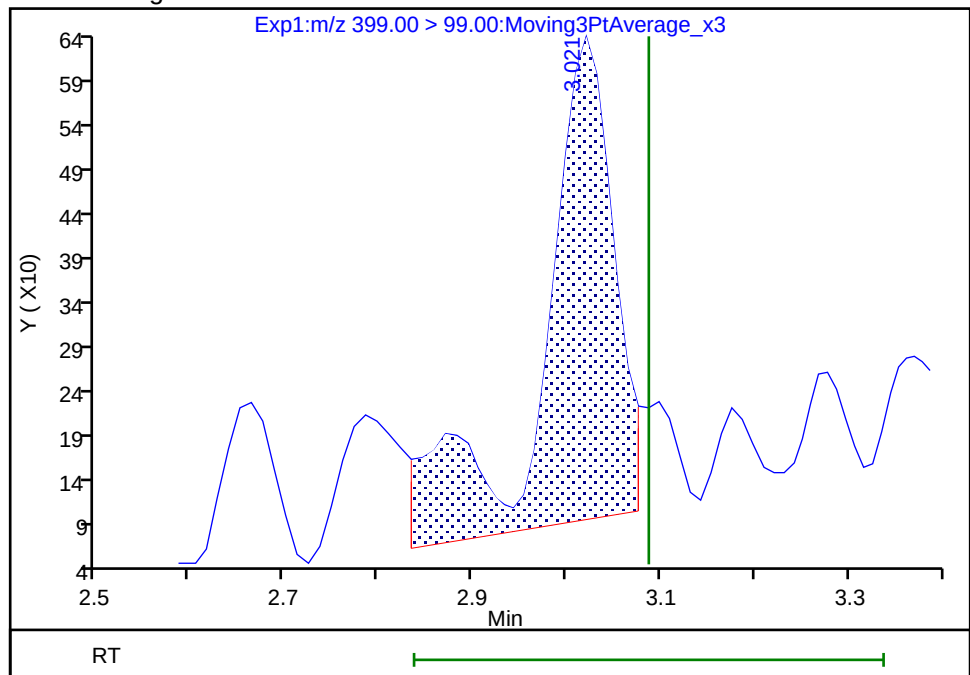
RT: 3.02
Area: 2436
Amount: 0.005078
Amount Units: ng/ml

Processing Integration Results



RT: 3.02
Area: 2840
Amount: 0.005078
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:54:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

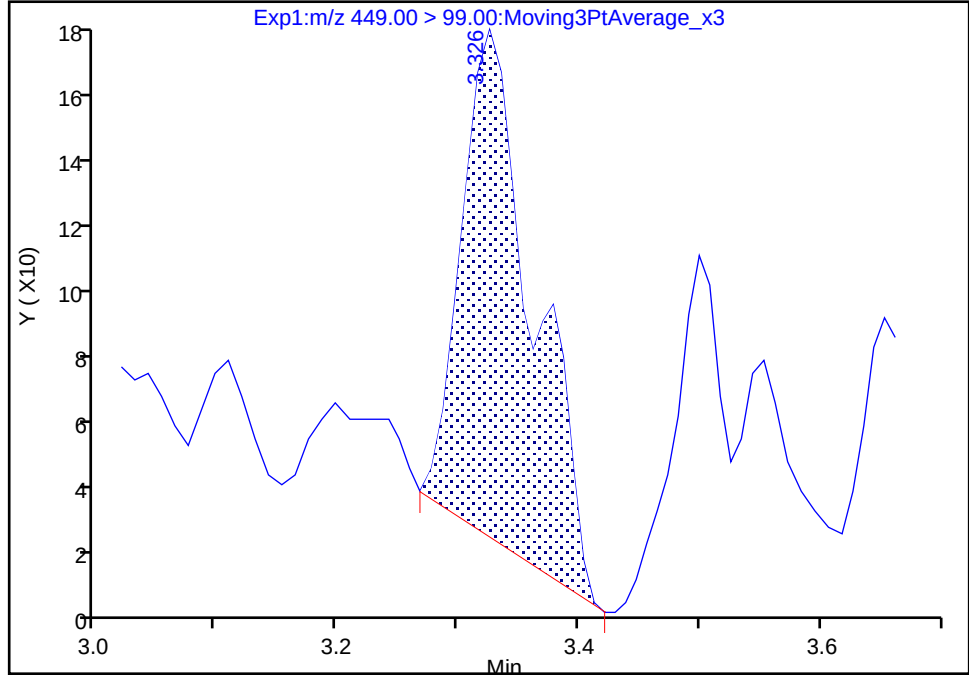
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

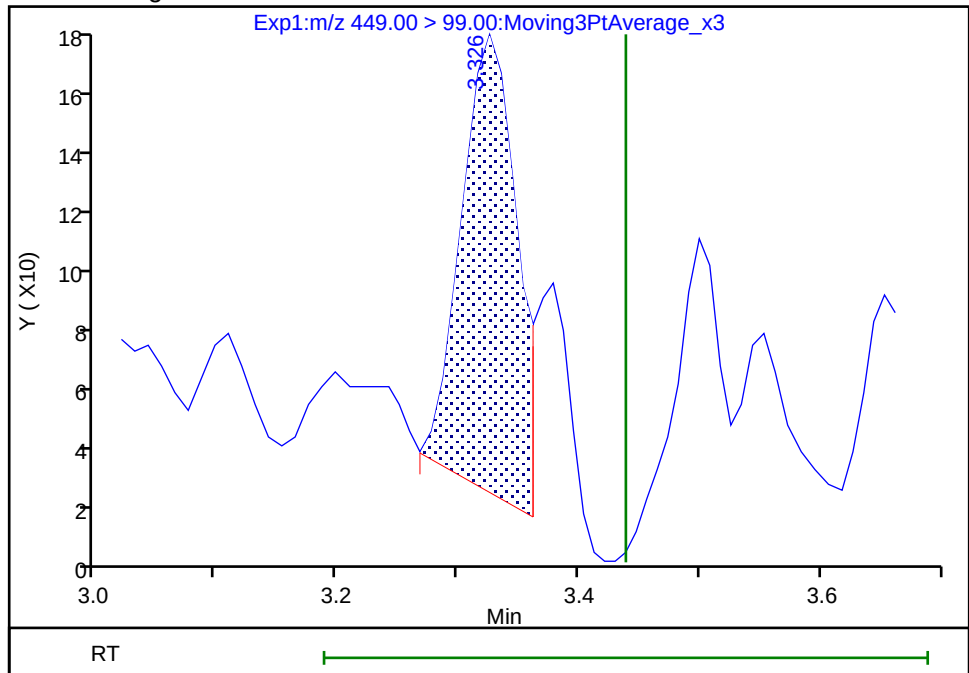
RT: 3.33
Area: 645
Amount: 0.000344
Amount Units: ng/ml

Processing Integration Results



RT: 3.33
Area: 485
Amount: 0.000344
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:54:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

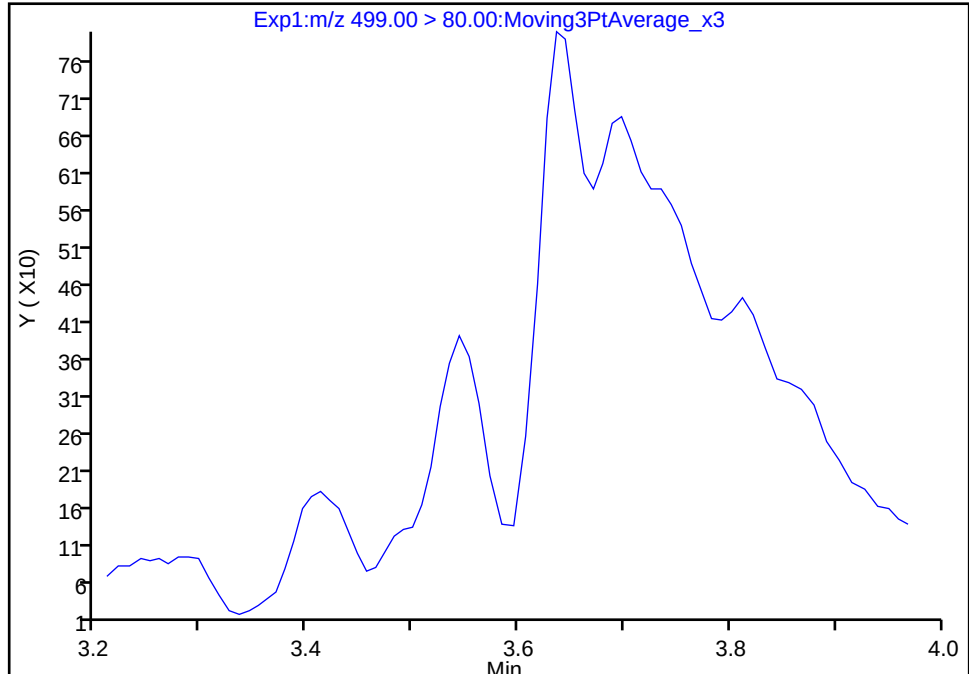
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

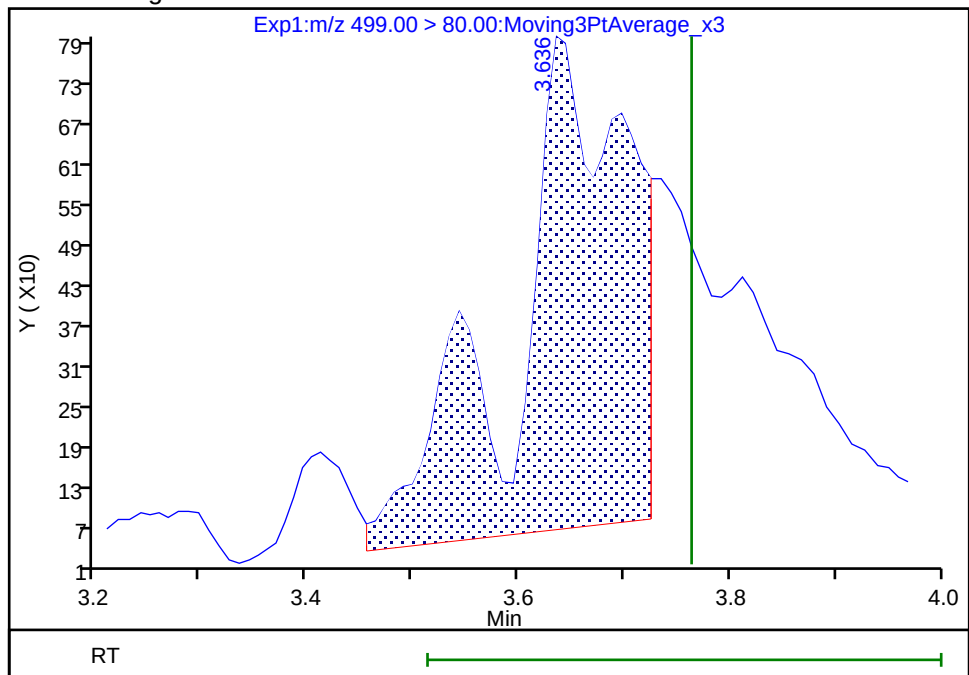
Signal: 1

Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results



RT: 3.64
Area: 5407
Amount: 0.004487
Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:56:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

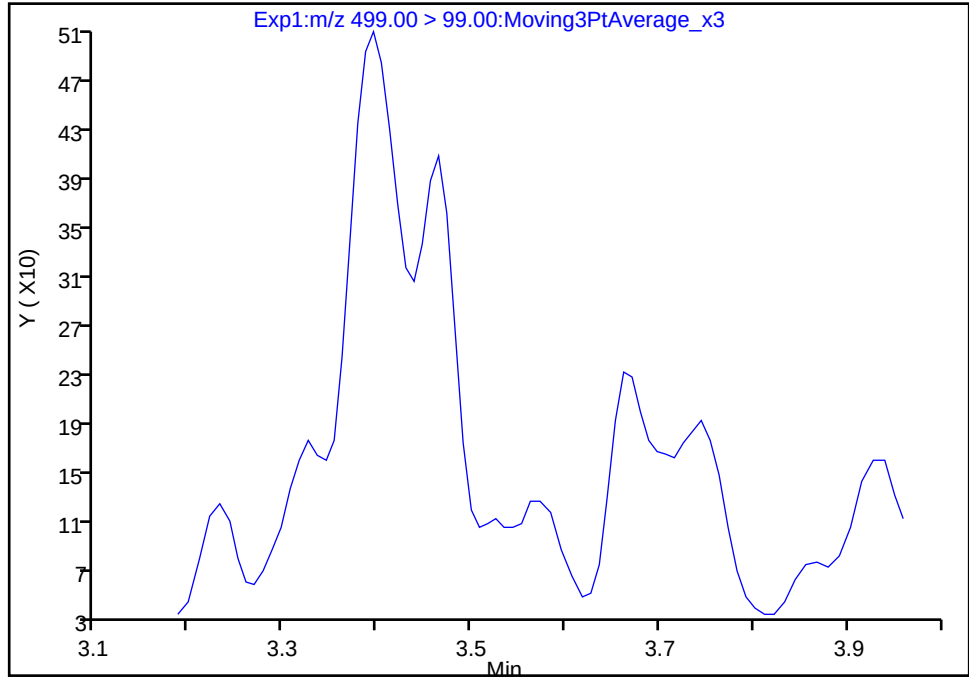
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

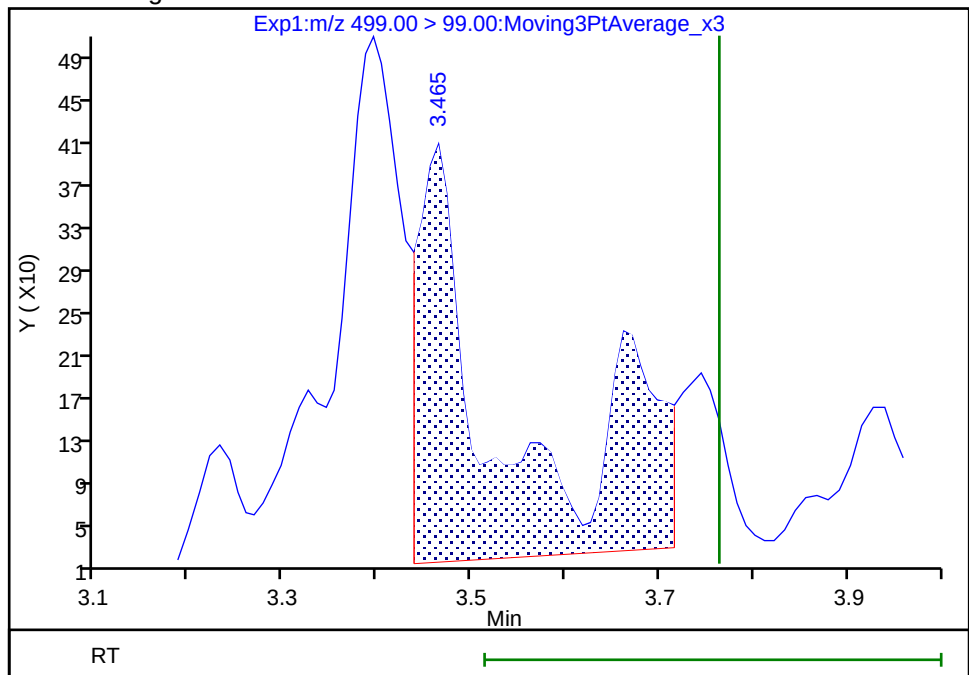
Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 2401
Amount: 0.004487
Amount Units: ng/ml



Reviewer: nampitkw, 04-Jan-2023 12:56:07

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Page 902 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

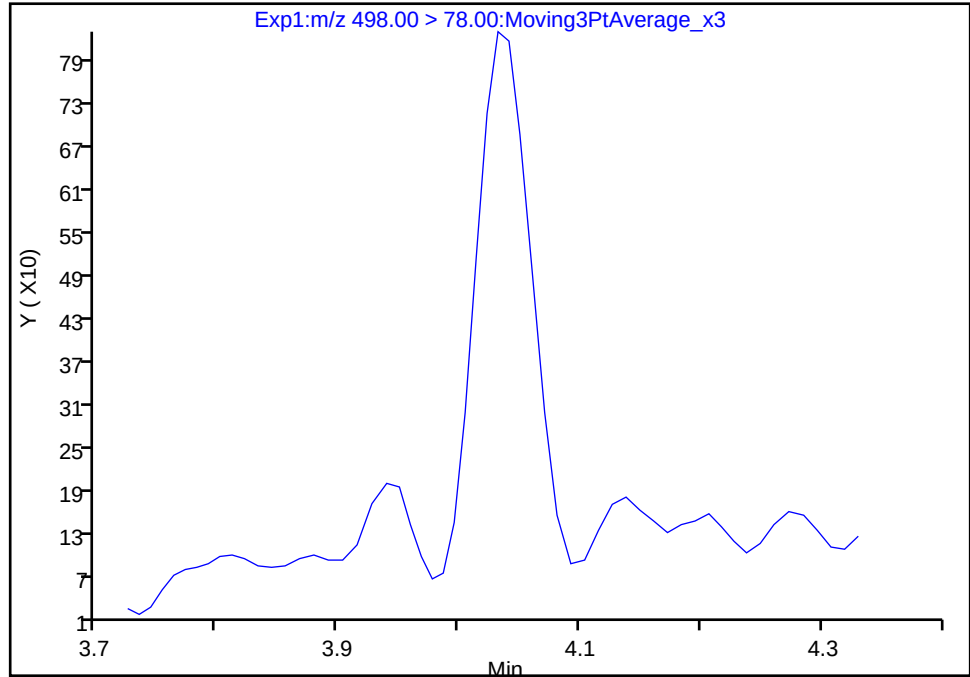
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

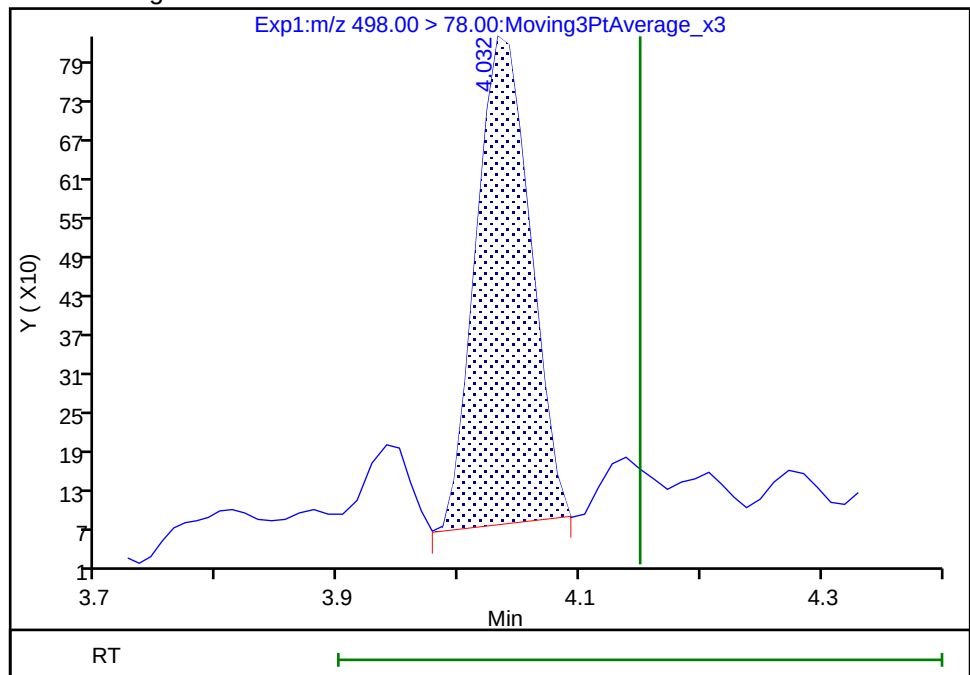
Not Detected

Expected RT: 4.15

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:56:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

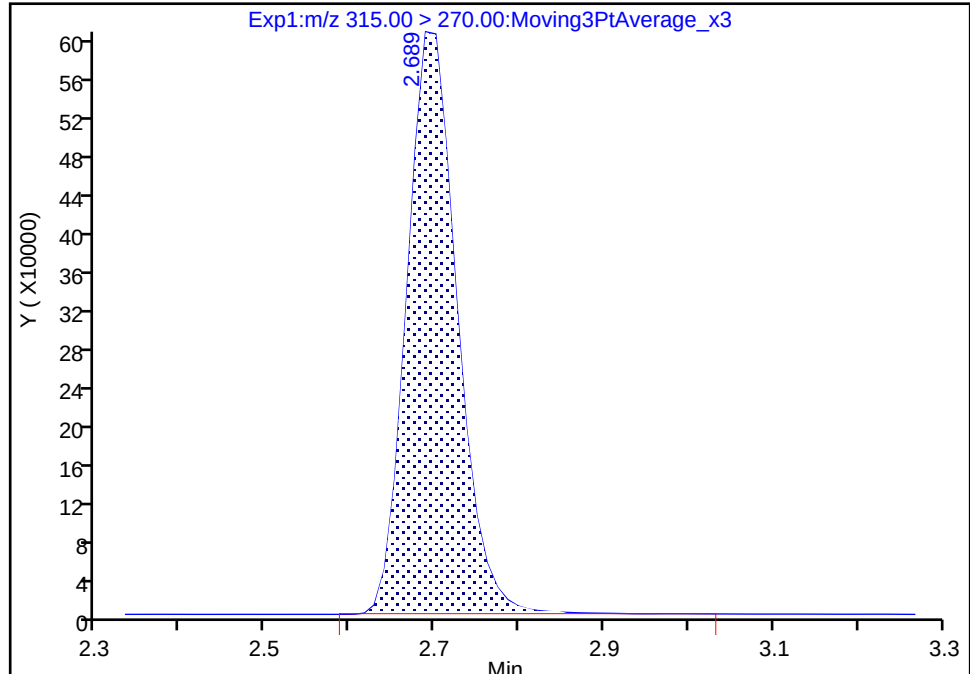
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

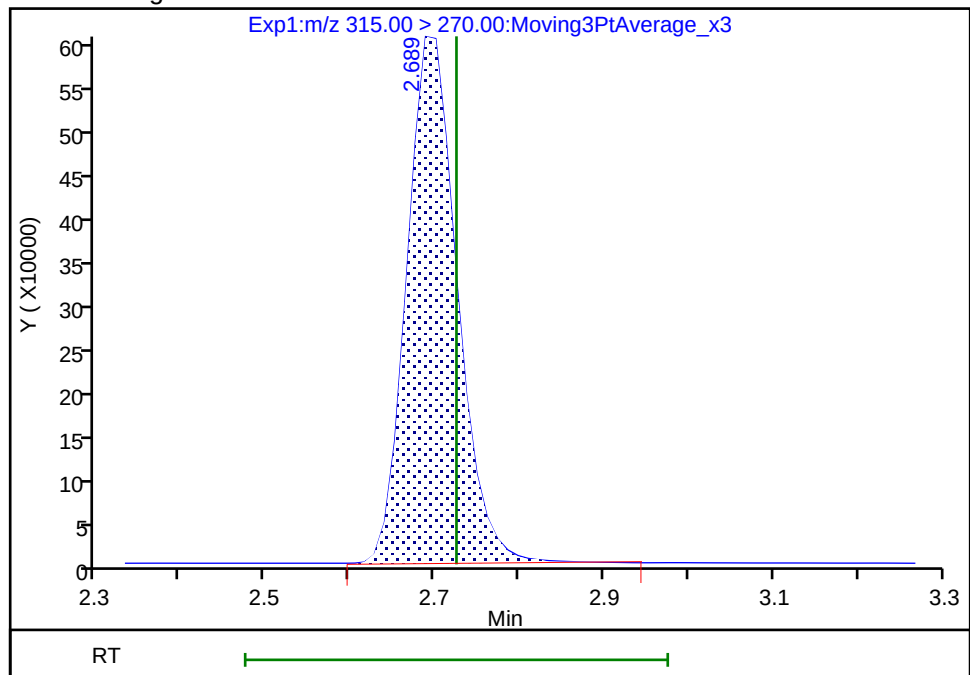
RT: 2.69
Area: 2527063
Amount: 1.301759
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 2524232
Amount: 1.300301
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:38:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

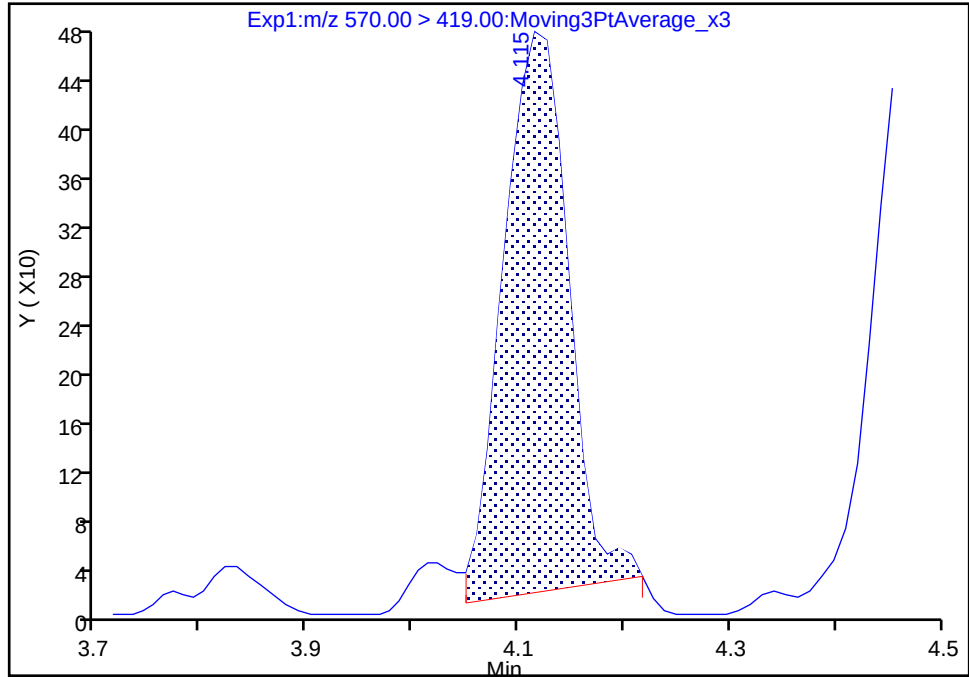
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

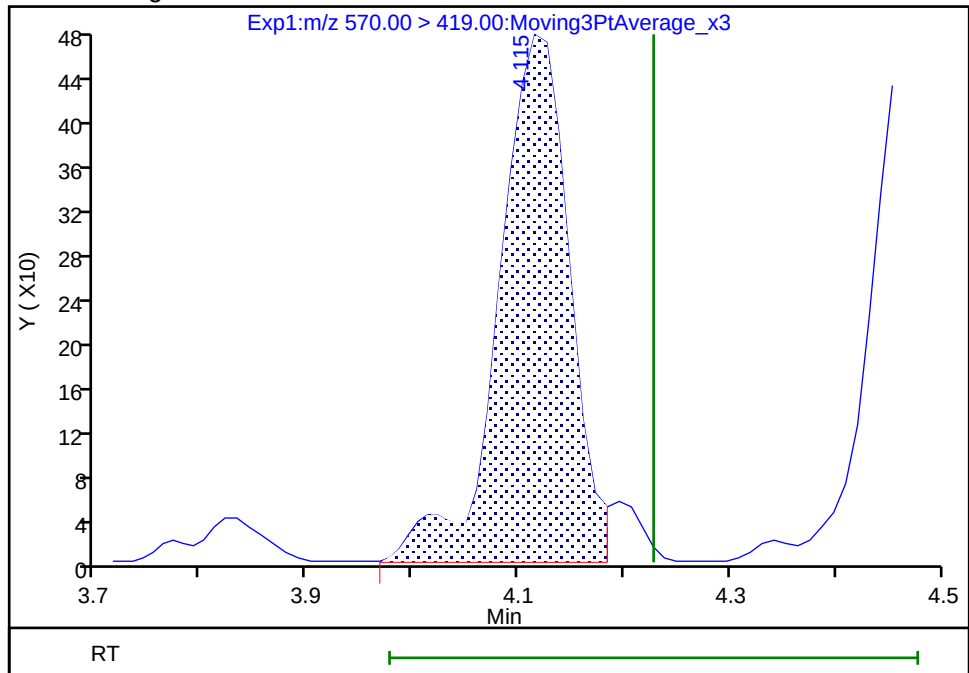
RT: 4.12
Area: 1953
Amount: -0.006608
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 2197
Amount: -0.005981
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:57:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

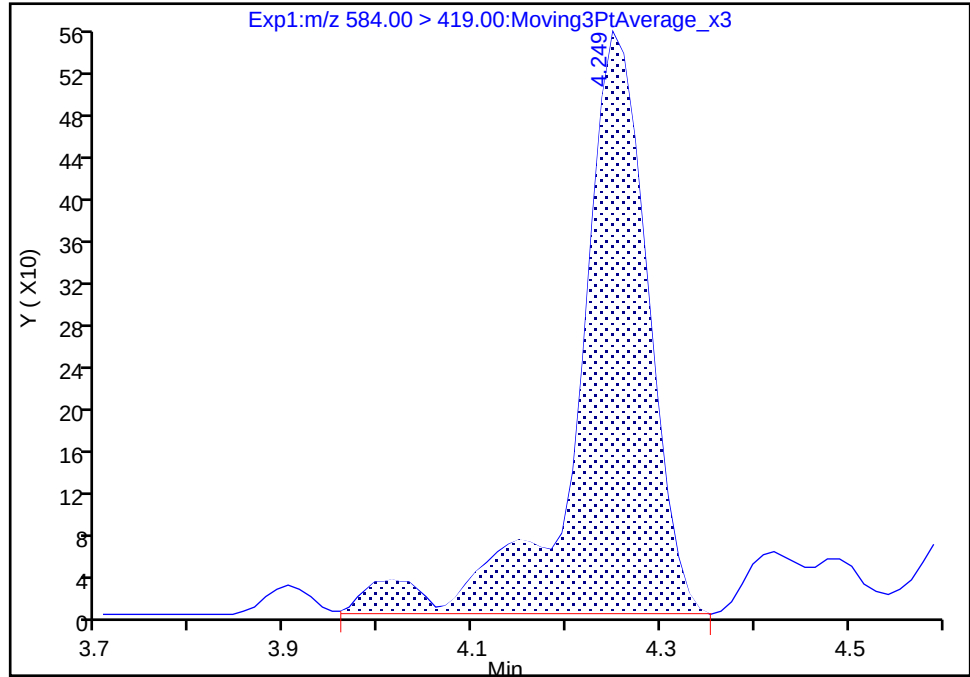
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d
Injection Date: 30-Dec-2022 22:33:48 Instrument ID: LC812
Lims ID: MB 200-187142/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

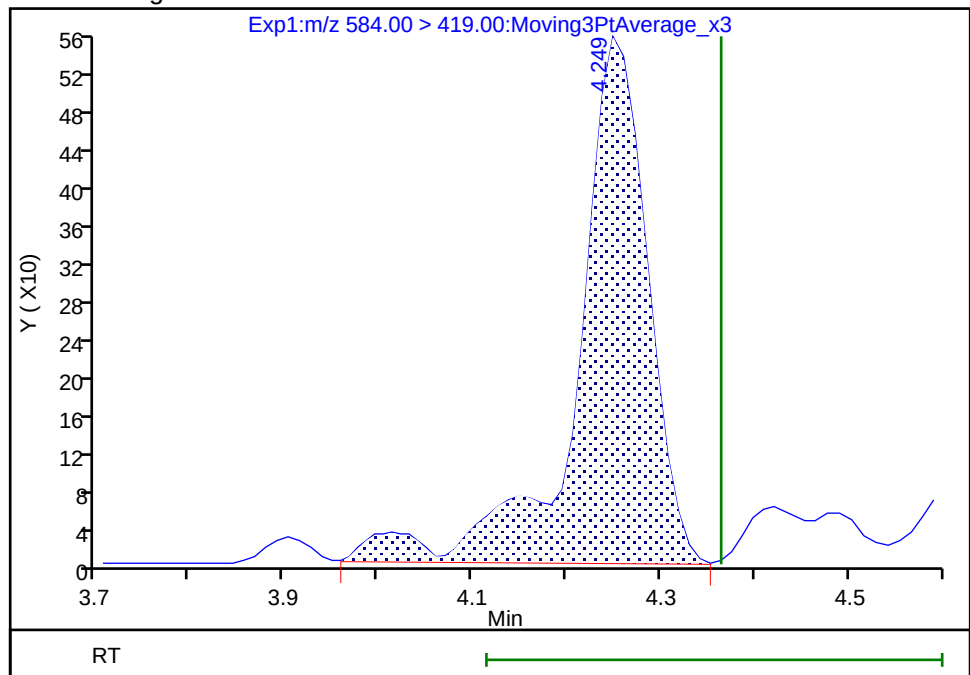
RT: 4.25
Area: 2961
Amount: 0.006858
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 2926
Amount: 0.006777
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:57:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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)

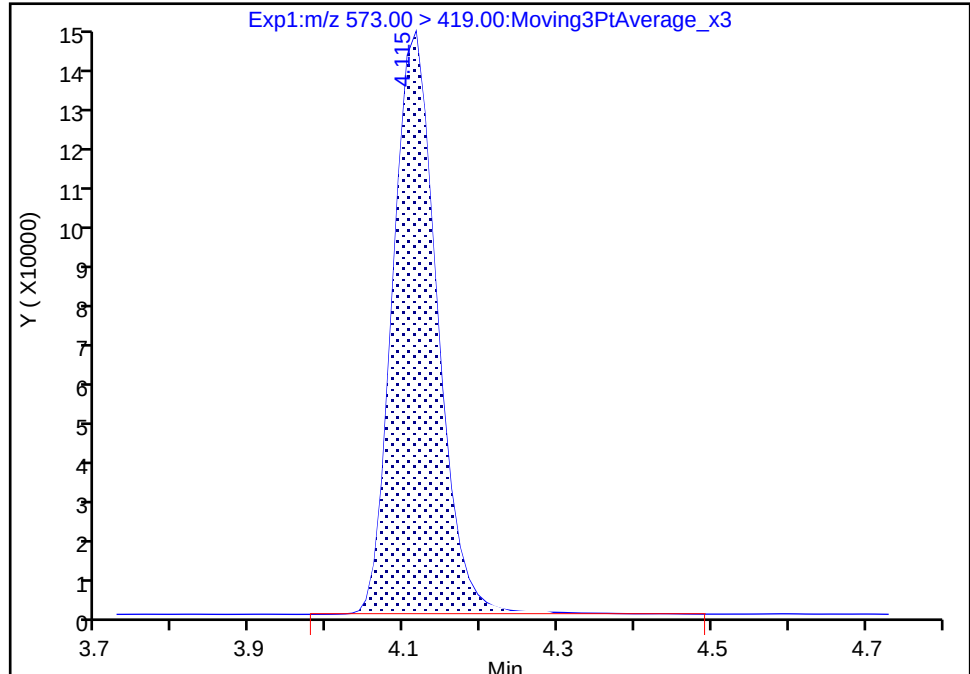
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

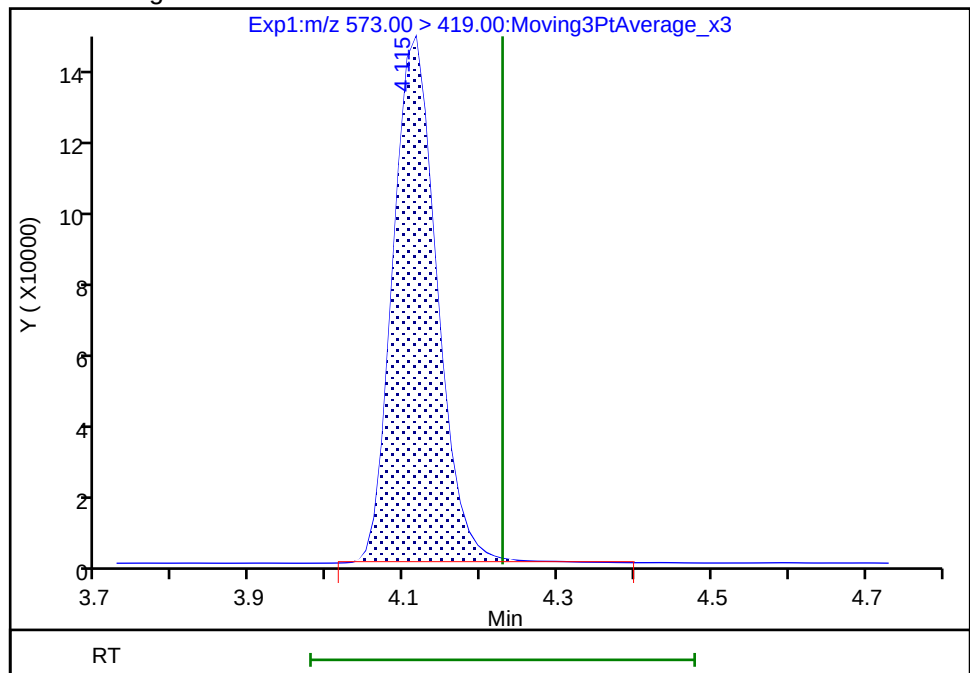
RT: 4.12
Area: 567766
Amount: 1.254447
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 565435
Amount: 1.249296
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:38:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

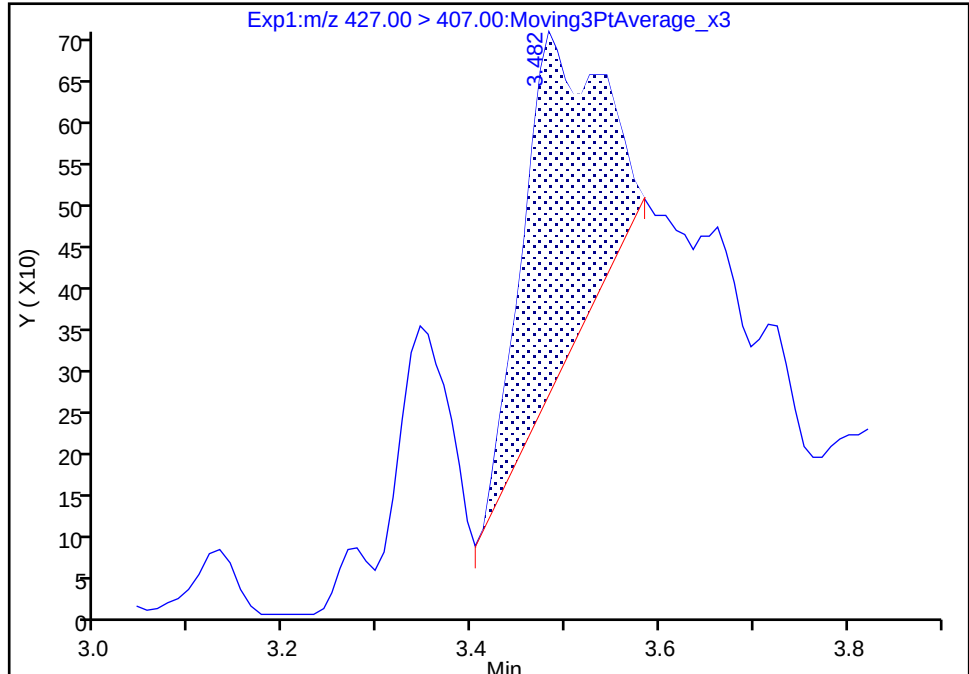
EXP1

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

Signal: 1

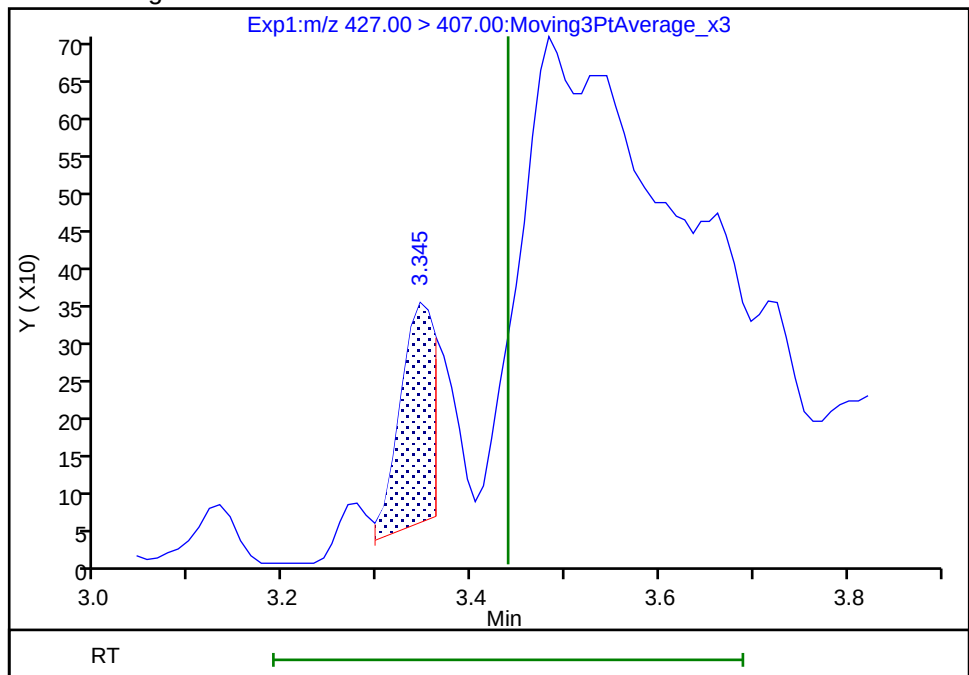
RT: 3.48
Area: 2317
Amount: -0.008164
Amount Units: ng/ml

Processing Integration Results



RT: 3.35
Area: 711
Amount: -0.010735
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:54:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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

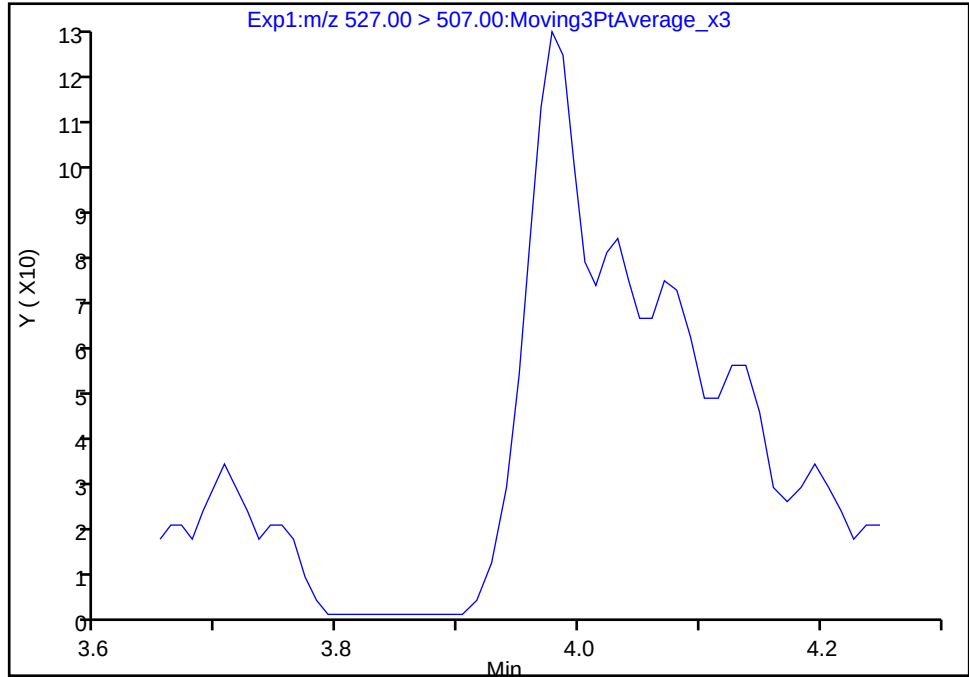
25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

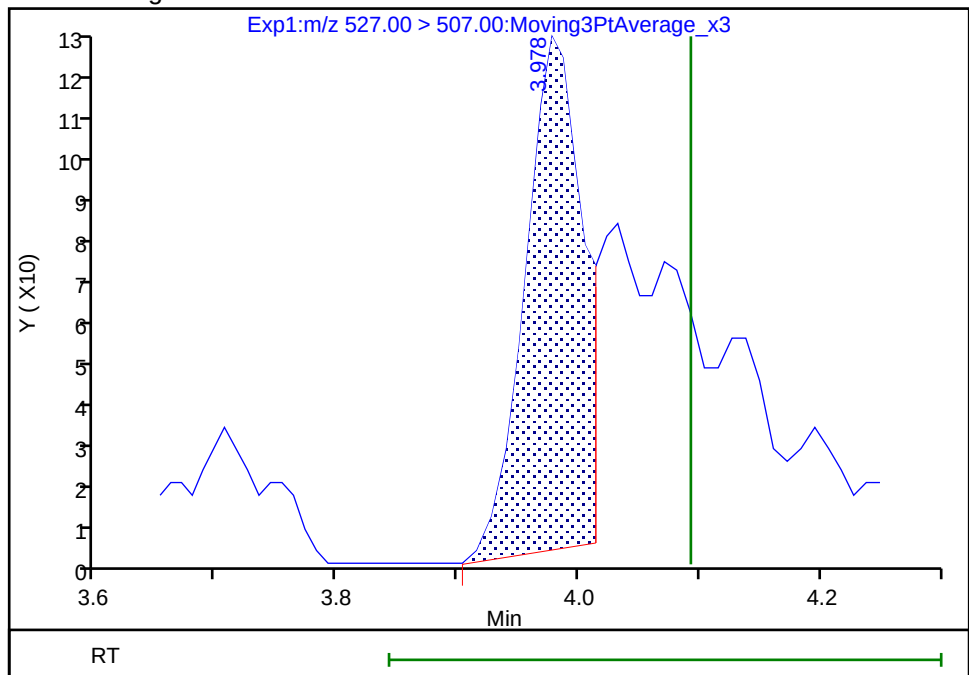
Not Detected

Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 3.98

Area: 388

Amount: 0.000691

Amount Units: ng/ml

Reviewer: nampitakw, 04-Jan-2023 12:56:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C02.d

Injection Date: 30-Dec-2022 22:33:48

Instrument ID: LC812

Lims ID: MB 200-187142/1-A

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)

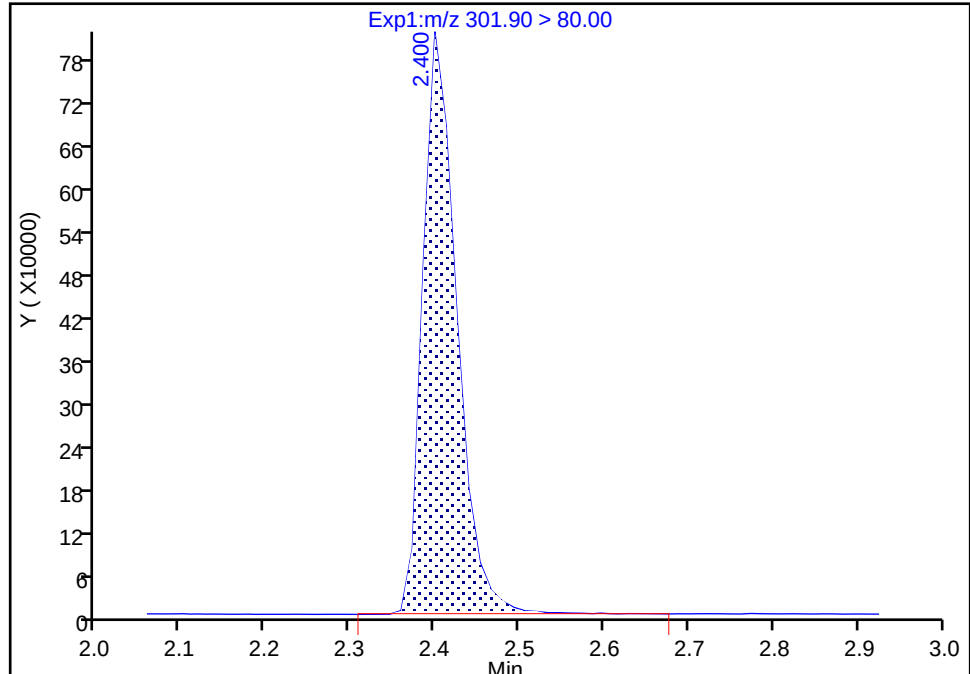
Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

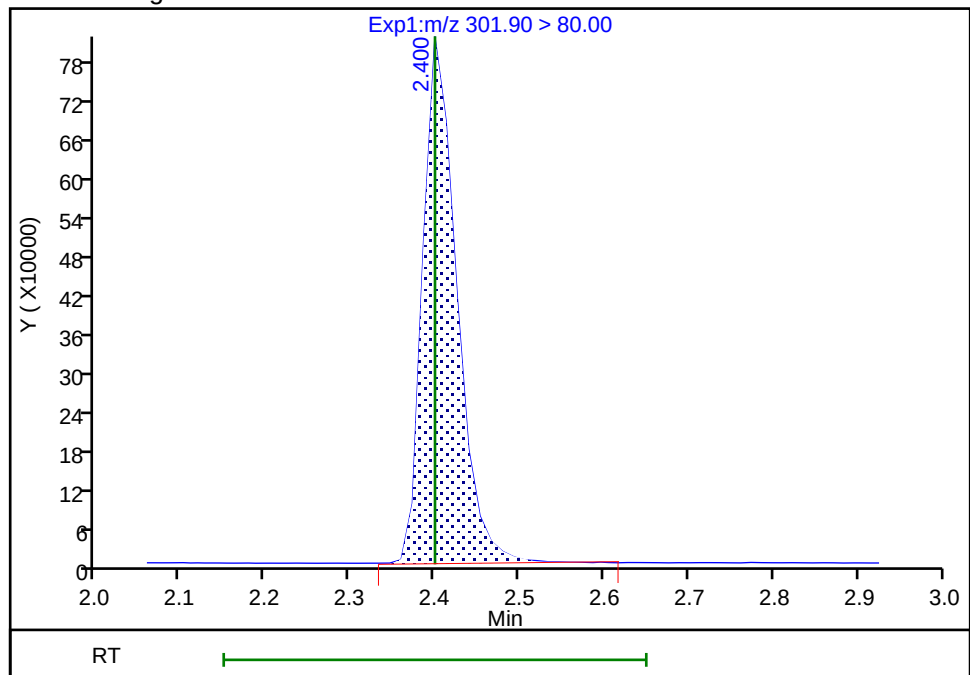
RT: 2.40
Area: 2268405
Amount: 1.126911
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2264381
Amount: 1.124912
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:37:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: CCB 200-187177/4

Matrix: Water Lab File ID: PA221230A04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 12/30/2022 13:09

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-187177/4
 Matrix: Water Lab File ID: PA221230A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 12/30/2022 13:09
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	102		50-150
STL00995	13C5 PFNA	102		50-150
STL00992	13C4 PFBA	90		50-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	114		50-150
STL00997	13C2 PFUnA	107		50-150
STL00994	18O2 PFHxS	104		50-150
STL00998	13C2 PFDoA	110		50-150
STL00991	13C4 PFOS	101		50-150
STL01056	13C8 FOSA	102		50-150
STL01893	13C5 PFPeA	91		50-150
STL02116	13C2 PFTeDA	119		50-150
STL02118	d3-NMeFOSAA	99		50-150
STL02117	d5-NEtFOSAA	97		50-150
STL02279	M2-6:2 FTS	113		50-150
STL02337	13C3 PFBS	98		50-150
STL02280	M2-8:2 FTS	111		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-Dec-2022 13:09:29 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0053865-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:49:52 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 08:40:31

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	2.086	2.076	0.010	0.604	2773910	1.12		89.7	9374	
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.387	0.004	0.692	2133635	1.13		90.6	2912	
D 47 13C3 PFBS										
301.90 > 80.00	2.404	2.400	0.004	0.696	2320022	1.13		97.5	200851	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.696	2.689	0.007	0.781	207379	1.15		98.3	194	
D 7 13C2 PFHxA										
315.00 > 270.00	2.733	2.725	0.008	0.791	2380393	1.21		96.5	4536	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.842	2.835	0.007	1.000	437	0.001224			5.1	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.842	2.835	0.007	0.823	422816	1.21		97.1	1458	
D 11 18O2 PFHxS										
403.00 > 84.00	3.094	3.088	0.006	0.896	1826183	1.23		104	2495	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.094	3.088	0.006	1.000	6953	0.003989	Target=3.66	17.9		M
399.00 > 99.00	3.094	3.088	0.006	1.000	3081		2.26(1.83-5.49)	4.2		
D 9 13C4 PFHpA										
367.00 > 322.00	3.094	3.099	-0.005	0.896	2529706	1.25		99.7	3747	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.439	-0.004	0.995	334587	1.34		113	781	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.444	3.439	0.005	1.003	505	-0.0110		0.7		M
D 14 13C4 PFOA										
417.00 > 372.00	3.453	3.448	0.005	1.000	2903341	1.27		102	6042	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 62 13C2 PFOA										
415.00 > 370.00	3.453	3.448	0.005		2755486	1.25			2970	
D 18 13C4 PFOS										
503.00 > 80.00	3.760	3.764	-0.004	1.089	1217069	1.20		101	3860	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.770	3.764	0.006	1.003	4903	0.003959	Target=5.11	3.6		M
499.00 > 99.00	3.559	3.764	-0.205	0.947	908		5.40(2.55-7.66)	1.8		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.779	3.783	-0.004	1.000	1809	0.000768	Target=8.55	0.5		M
463.00 > 169.00	3.779	3.783	-0.004	1.000	408		4.43(4.28-12.83)	3.9		M
D 19 13C5 PFNA										
468.00 > 423.00	3.779	3.783	-0.004	1.095	2838512	1.28		102	4183	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.935	3.928	0.007	1.046	758	0.000267		4.0		M
D 23 13C2 PFDA										
515.00 > 470.00	4.077	4.081	-0.004	1.181	3230847	1.43		114	9758	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.087	4.093	-0.006	1.184	404535	1.32		111	2140	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.099	4.093	0.006	1.003	220	0.000403		3.4		M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.145	4.150	-0.005	0.997	884	0.000447		2.8		M
D 21 13C8 FOSA										
506.00 > 78.00	4.156	4.150	0.006	1.204	2366251	1.28		102	2847	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.222	4.228	-0.006	1.223	569017	1.24		99.0	3125	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.244	4.228	0.016	1.005	235	-0.0110		0.9		
D 30 13C2 PFUnA										
565.00 > 520.00	4.348	4.353	-0.005	1.259	2779294	1.34		107	6006	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.303	4.365	-0.062	0.987	530	0.001351		3.2		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.359	4.365	-0.006	1.263	547856	1.21		96.8	931	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.449	4.454	-0.005	1.183	1549	0.000353		7.1		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.587	4.591	-0.004	1.328	2903650	1.38		110	4740	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.612	-0.015	1.125	284	0.000865		5.1		M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.980	5.012	-0.032	0.998	506	0.001709	Target=0.89	6.1		M
713.00 > 219.00	4.990	5.012	-0.022	1.000	649		0.78(0.44-1.33)	6.5		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.990	5.012	-0.022	1.445	2703982	1.48		119	7324	

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	5.354	5.367	-0.013	1.002	30096	-0.004420	Target=5.65		3.3	
813.00 > 169.00	5.343	5.367	-0.024	1.000	4664		6.45(2.82-8.47)		34.2	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.343	5.367	-0.024	1.548	3231849	1.43		115	4984	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.685	5.722	-0.037	1.064	2119	0.000995	Target=6.24		0.3	M
913.00 > 169.00	5.694	5.722	-0.028	1.066	235		9.02(3.12-9.36)		4.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d

Injection Date: 30-Dec-2022 13:09:29

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

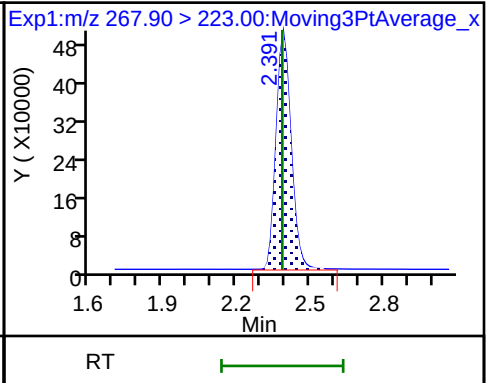
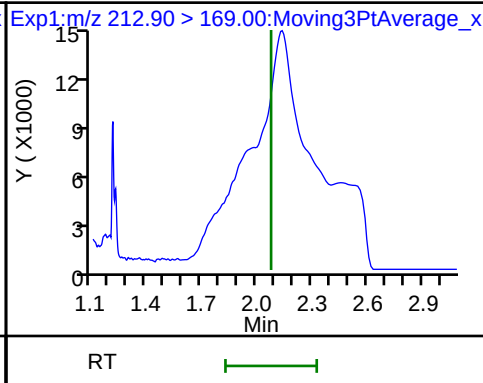
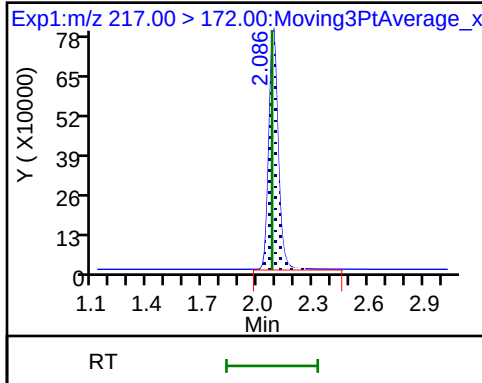
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (ND)

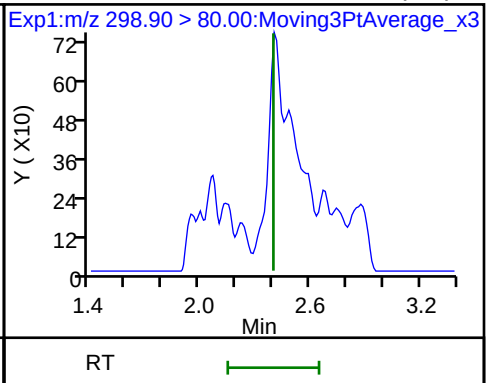
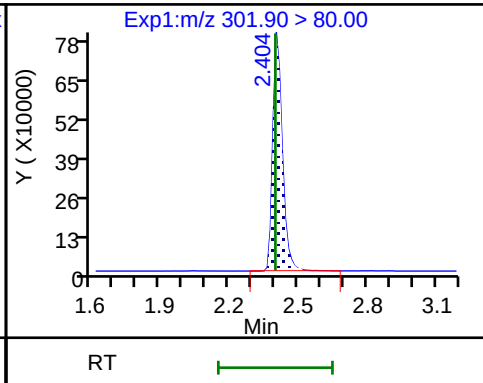
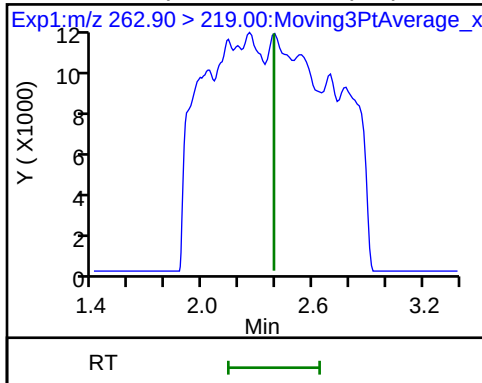
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS

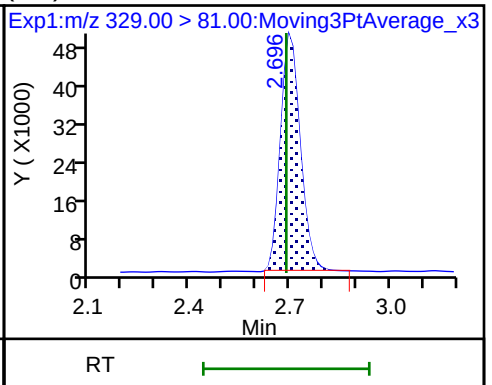
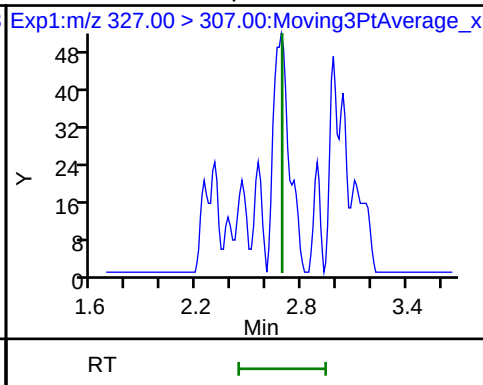
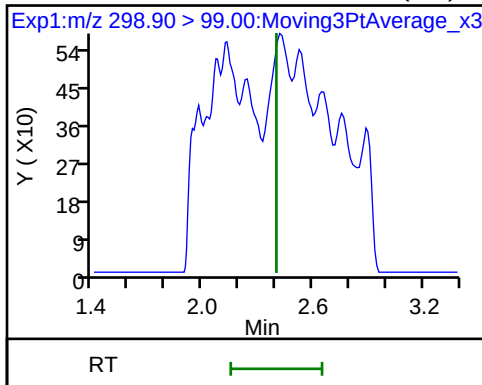
5 Perfluorobutanesulfonic acid (ND)



5 Perfluorobutanesulfonic acid (ND)

61 1H,1H,2H,2H-perfluorohexanesulfonic acid (ND)

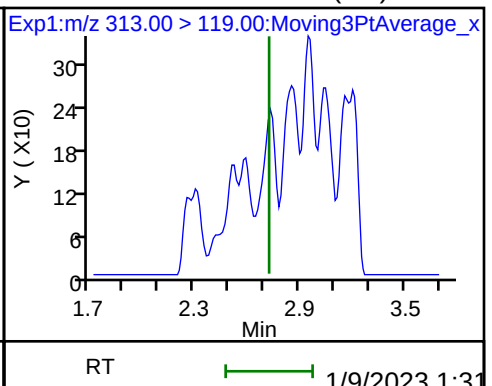
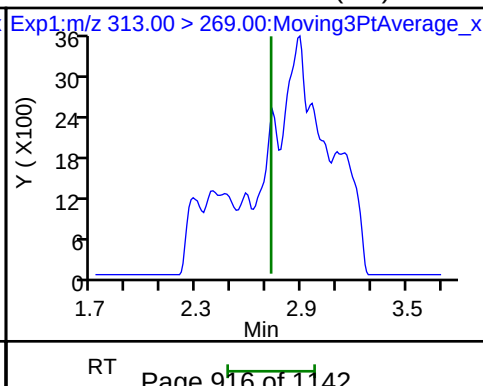
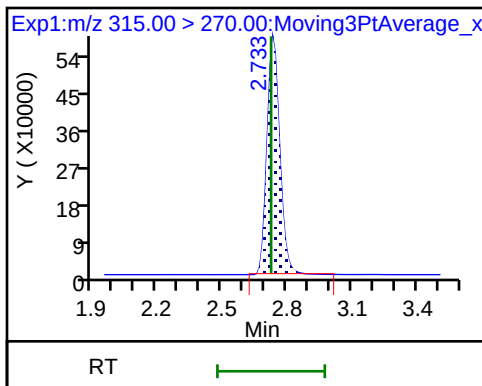
D 10 M2-4:2 FTS



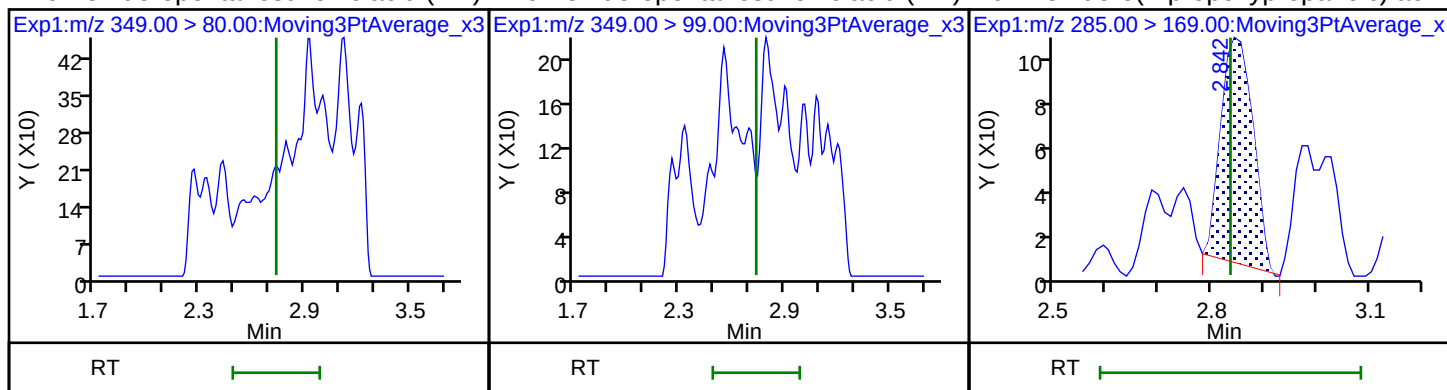
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



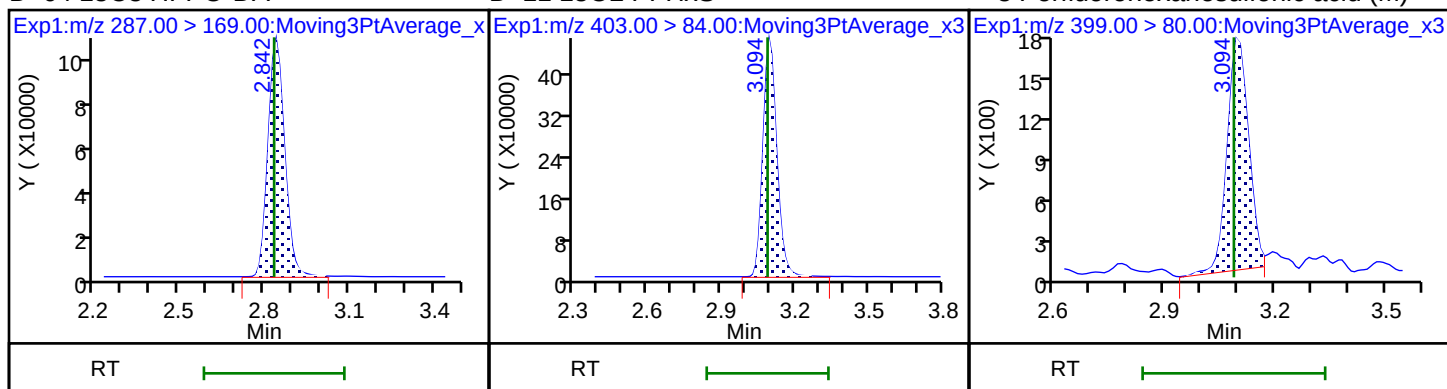
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

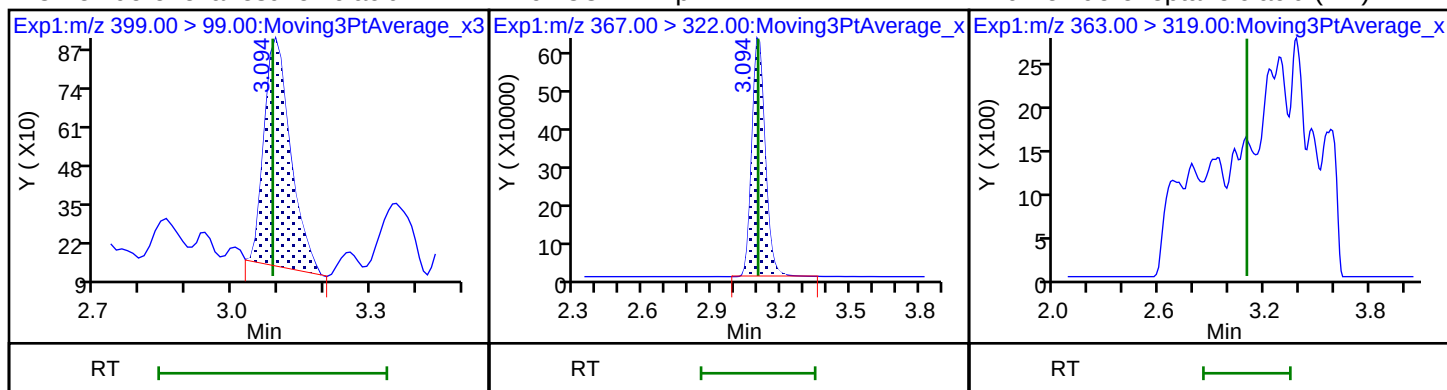
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid

D 9 13C4 PFHpA

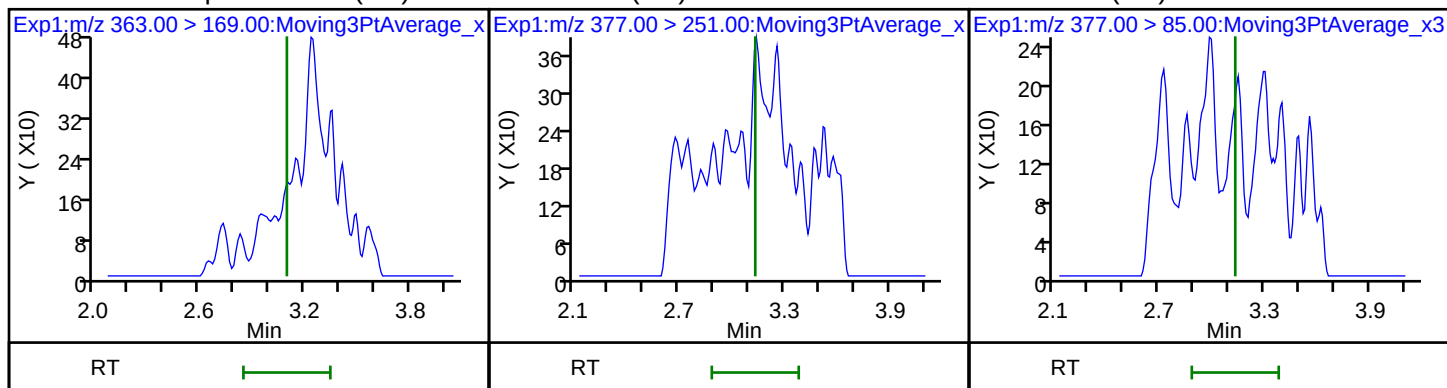
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

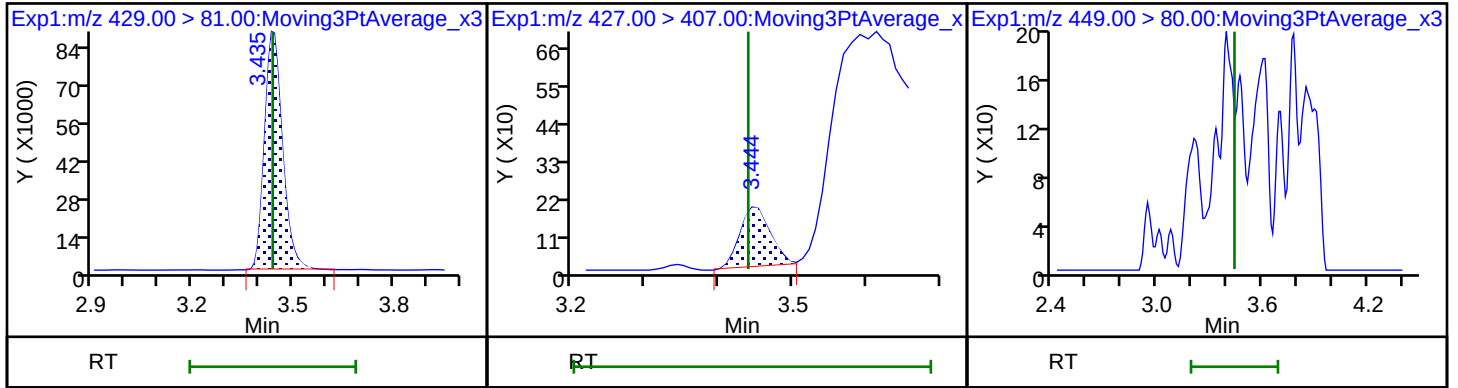
77 DONA (ND)

77 DONA (ND)



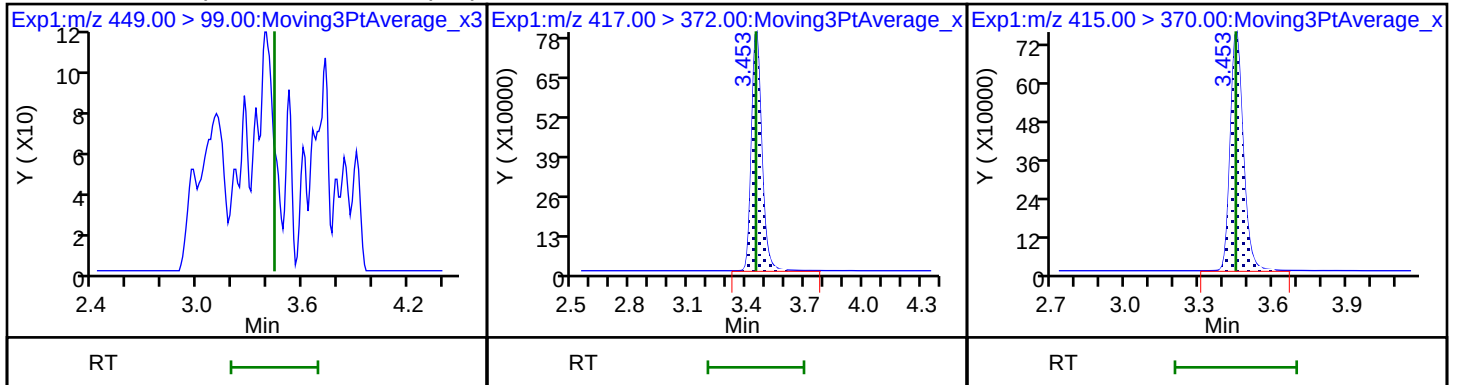
D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (ND)



16 Perfluoroheptanesulfonic acid (ND) D 14 13C4 PFOA

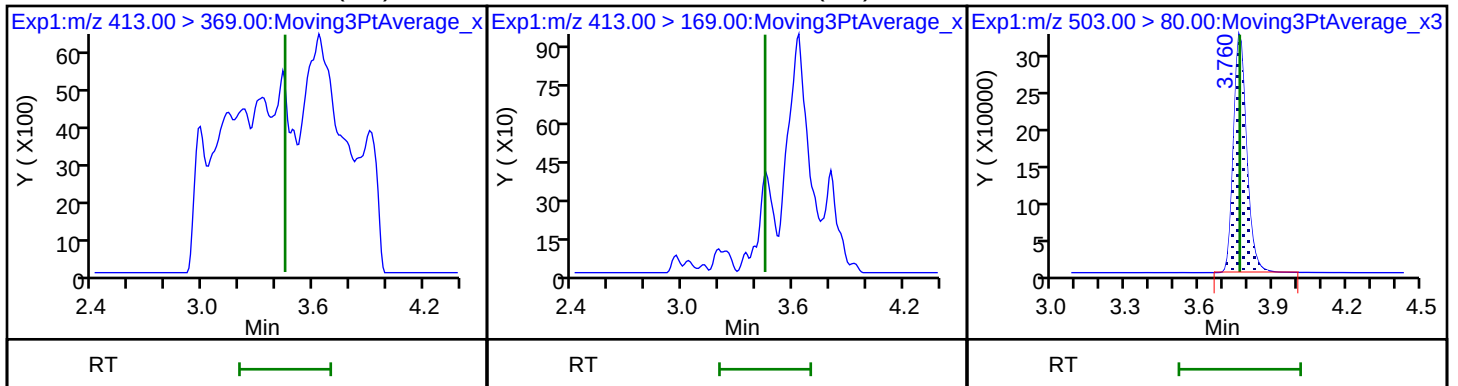
* 62 13C2 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

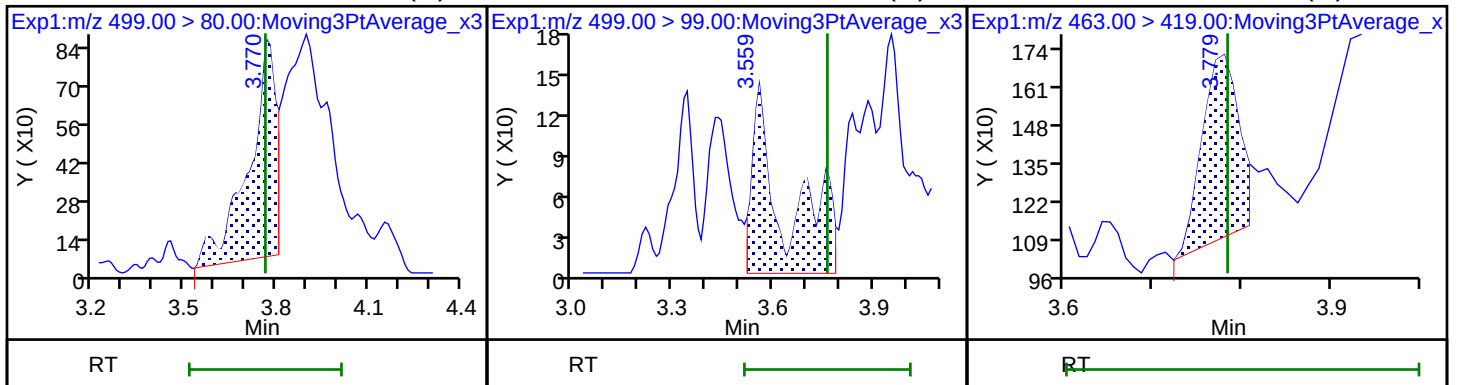
D 18 13C4 PFOS

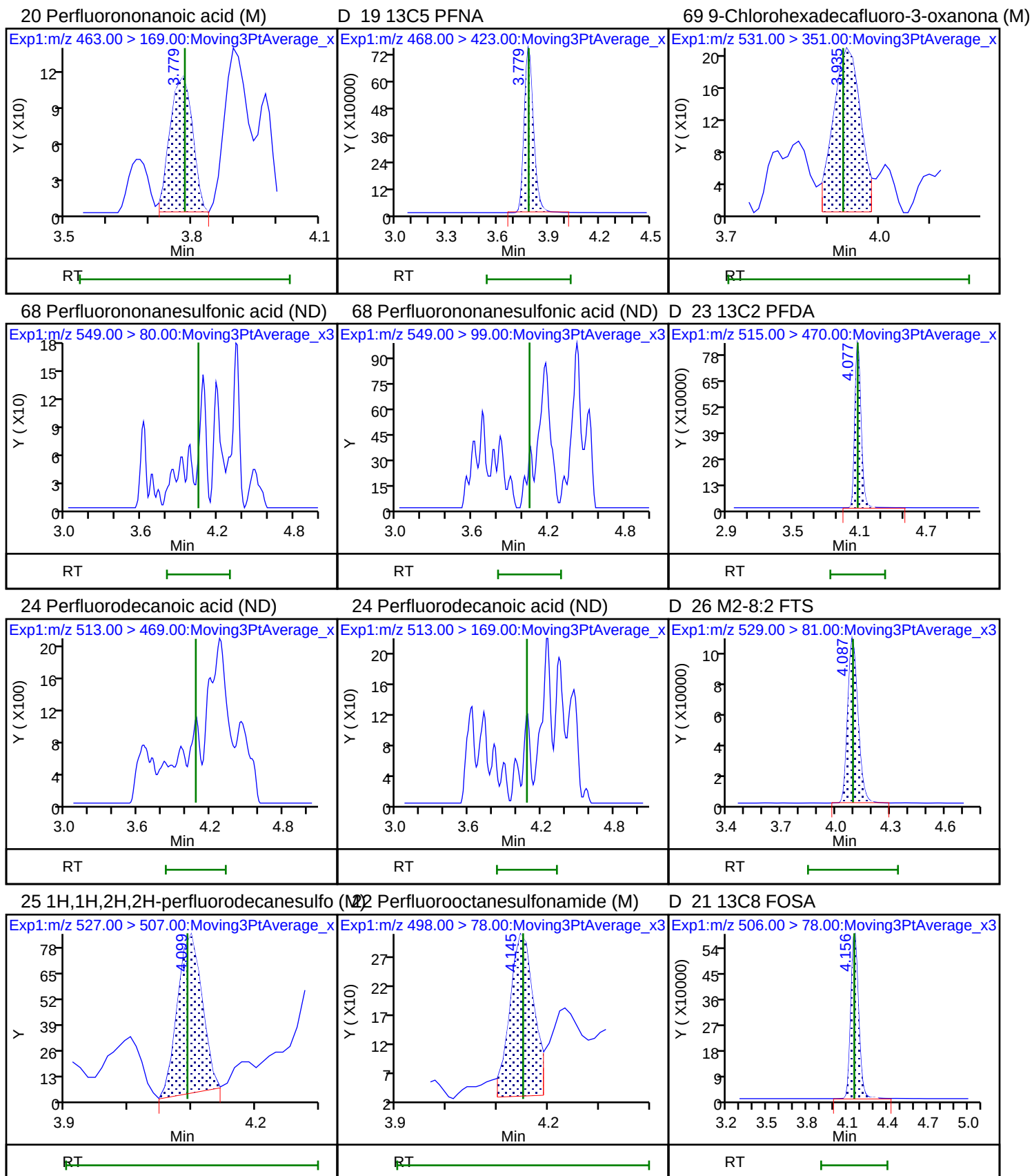


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid (M)

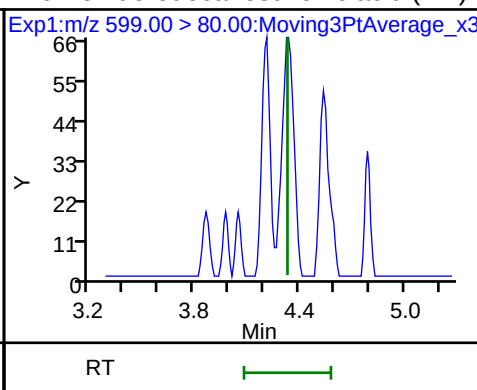
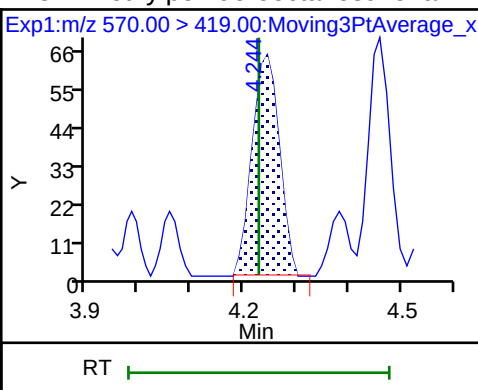
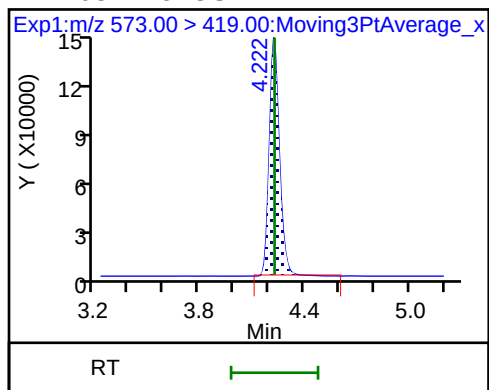




D 27 d3-NMeFOSAA

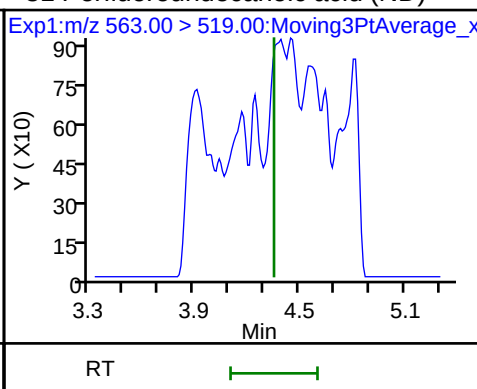
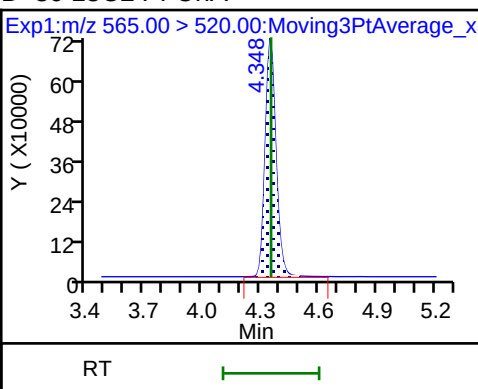
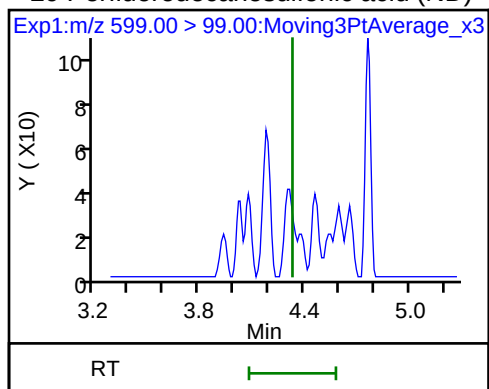
28 N-methylperfluorooctanesulfonami

29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

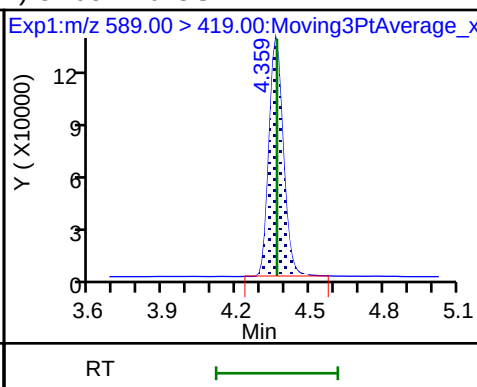
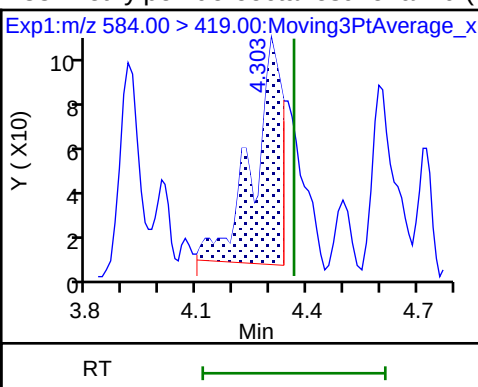
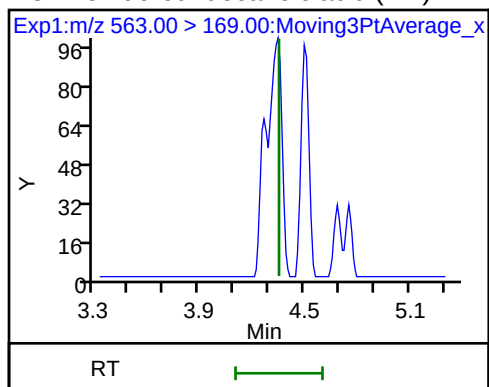
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

33 N-ethylperfluorooctanesulfonamid (ND)

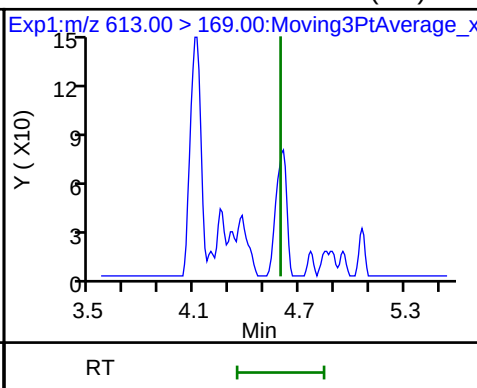
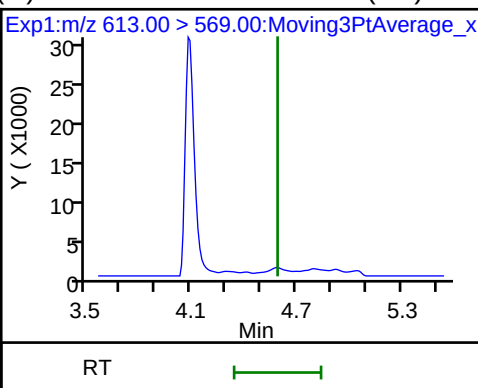
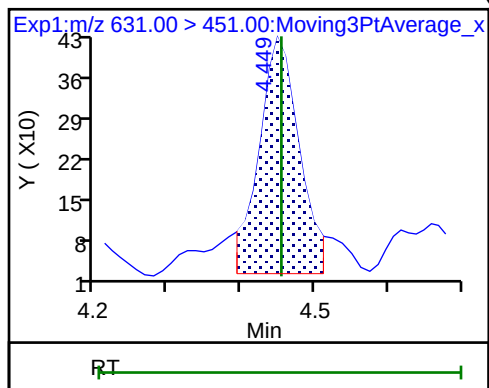
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

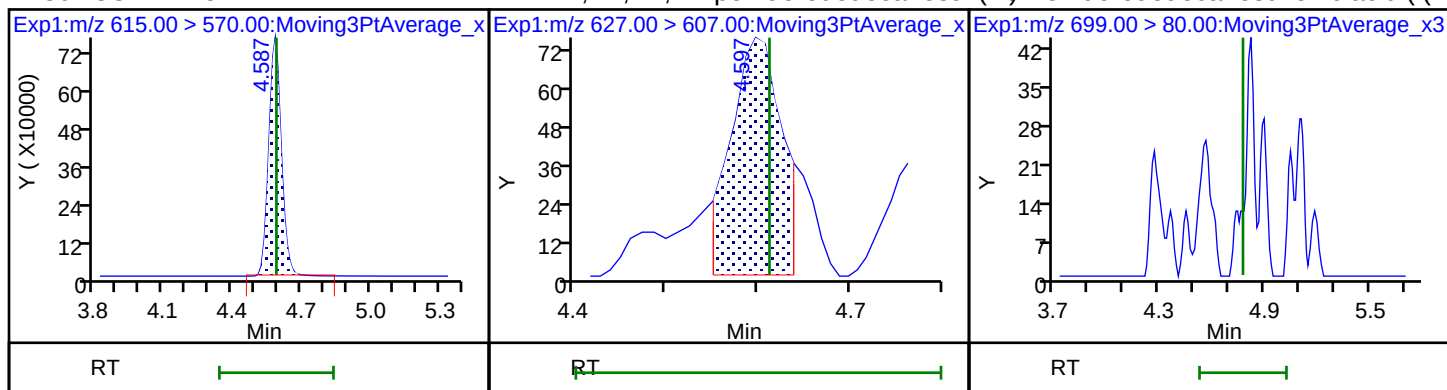
37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)



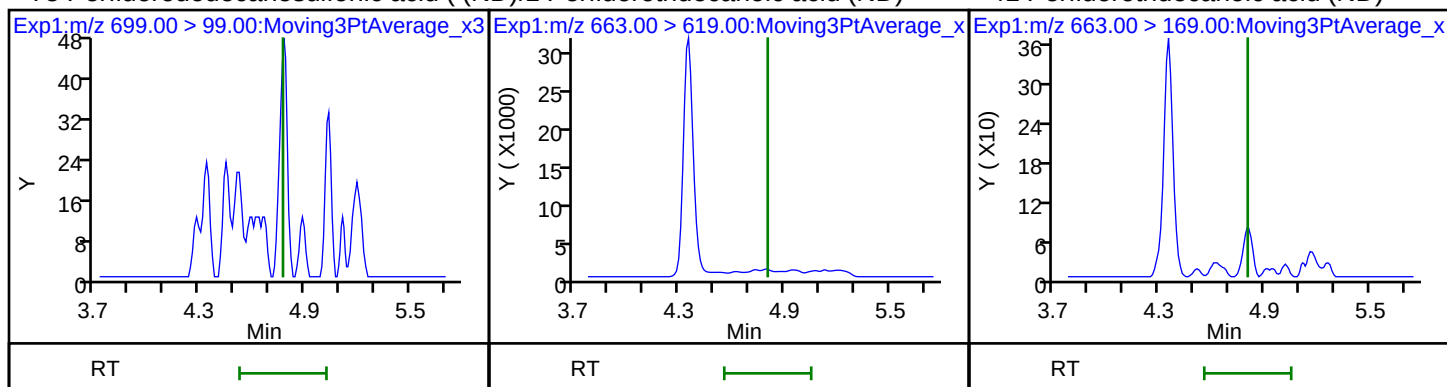
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

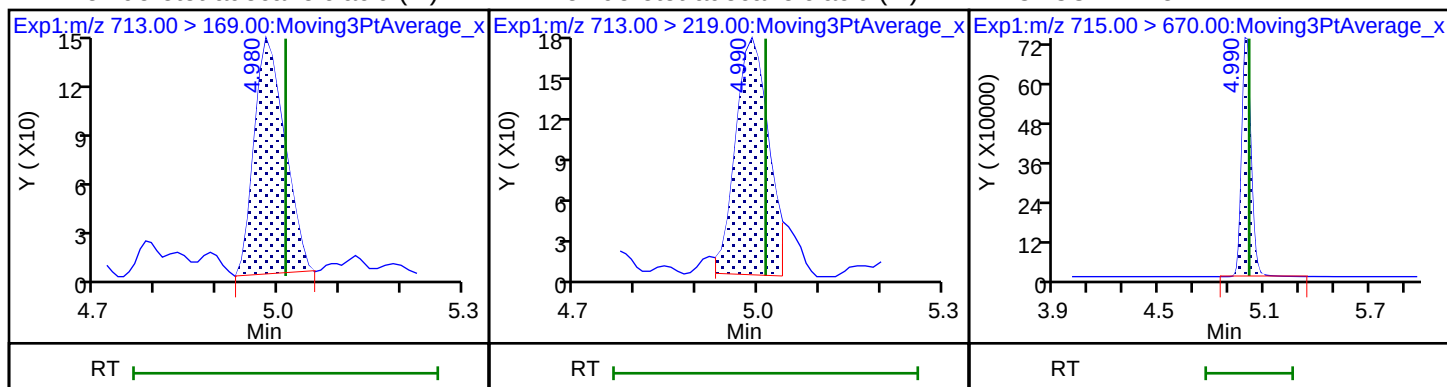
41 Perfluorotridecanoic acid (ND)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

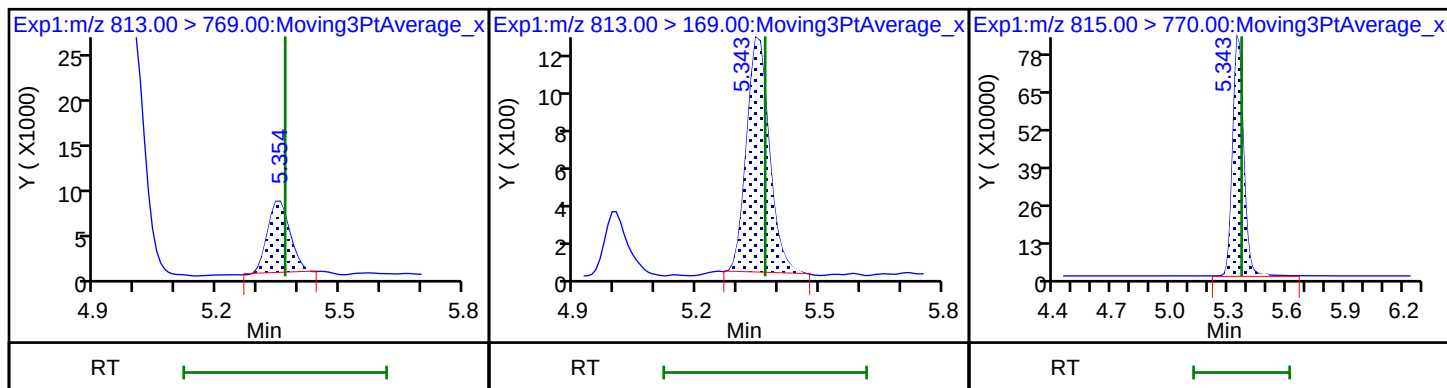
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

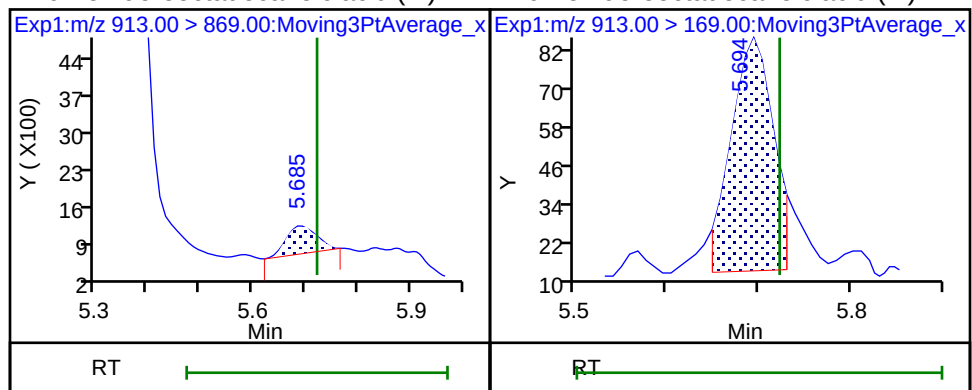
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

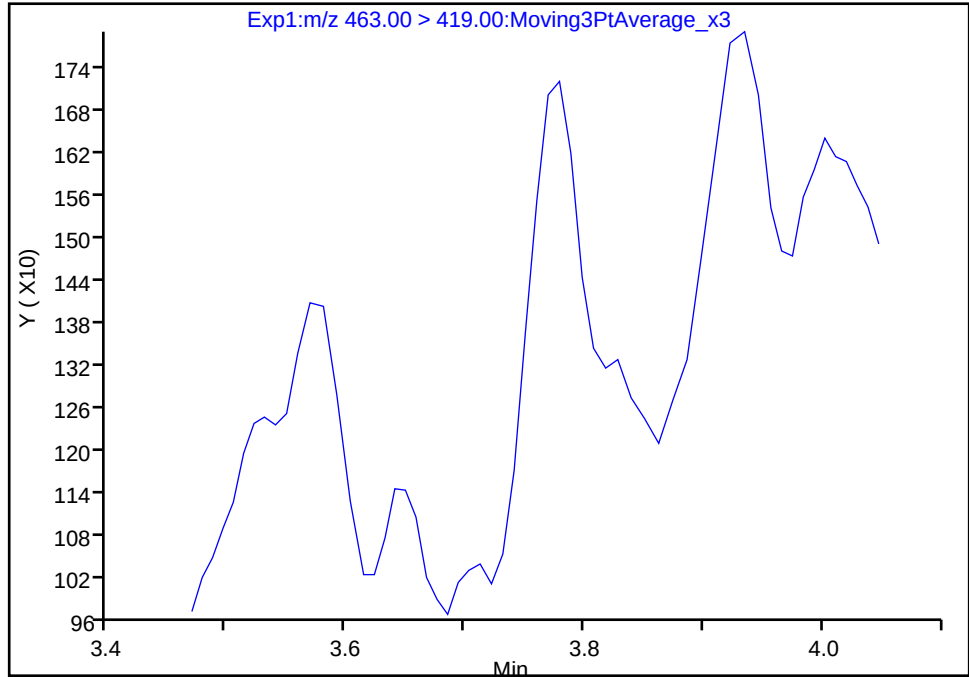
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

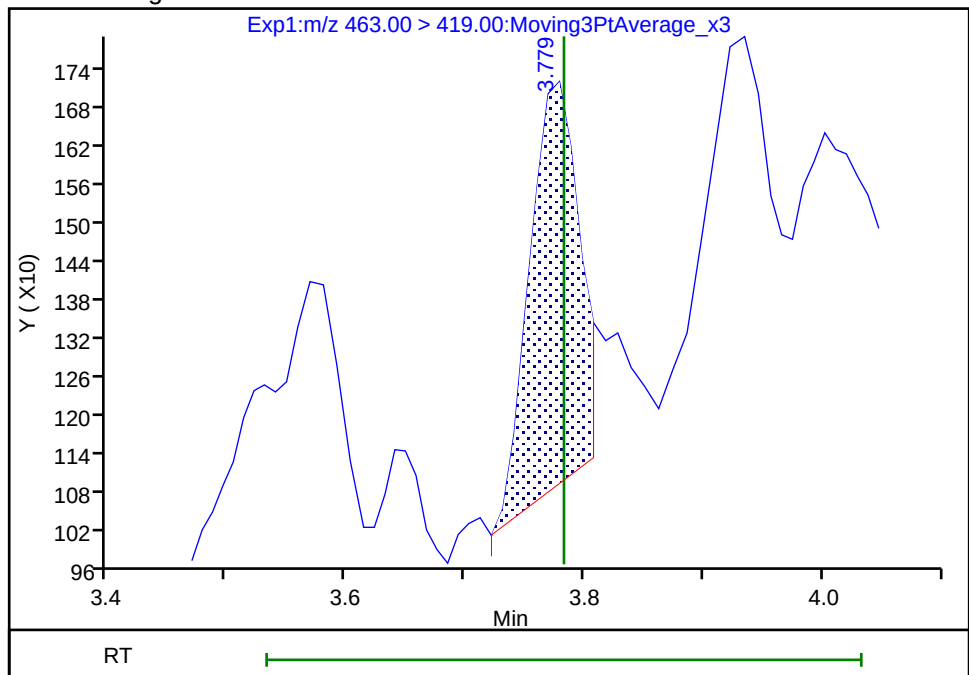
Not Detected
Expected RT: 3.78

Processing Integration Results



RT: 3.78
Area: 1809
Amount: 0.000768
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:33:08
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

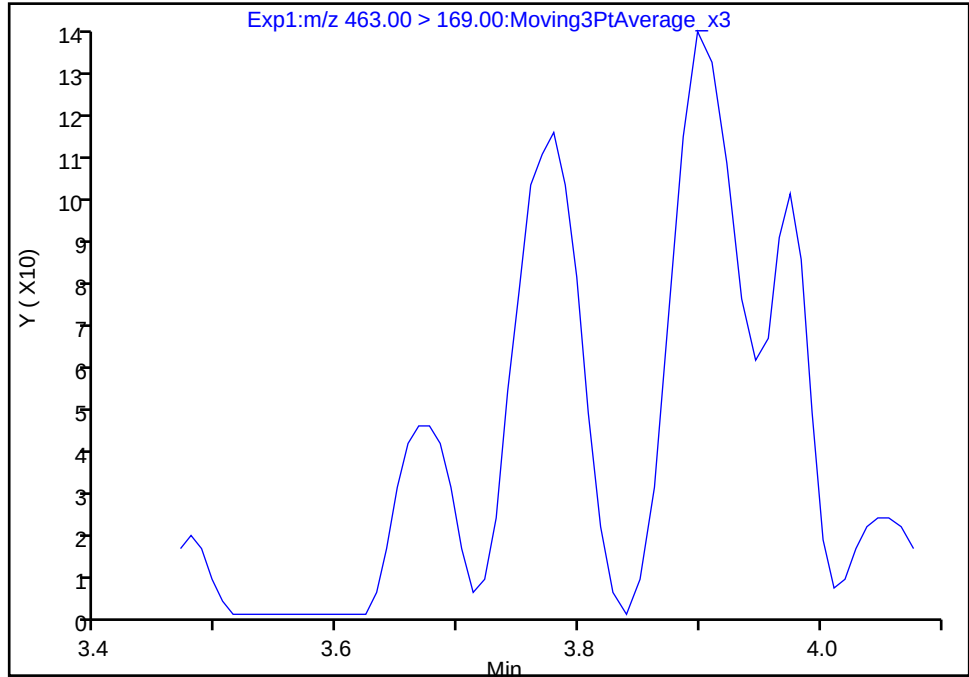
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

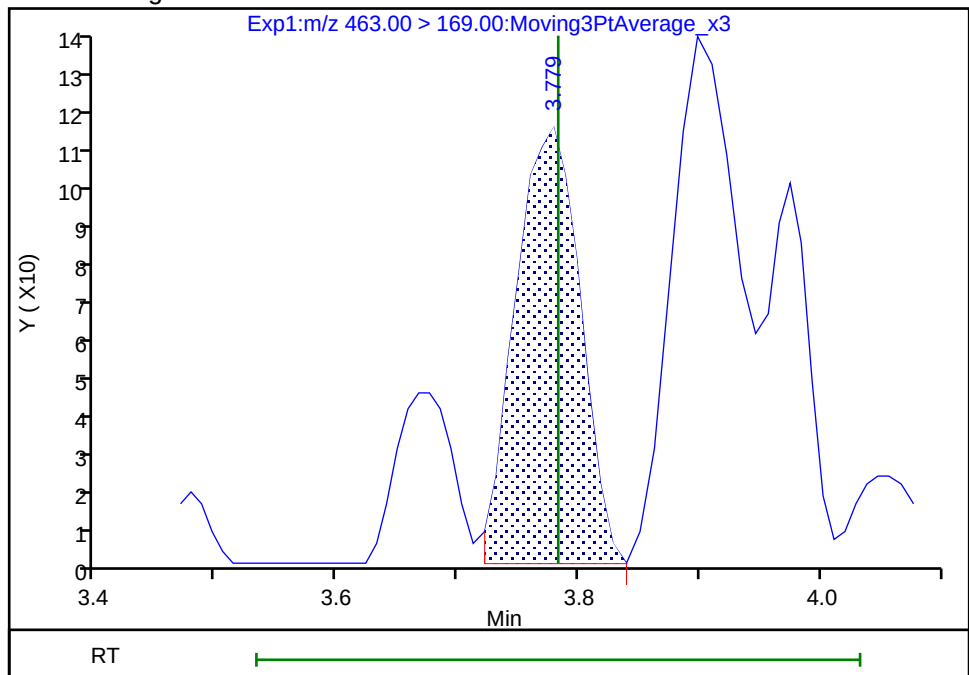
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 408
Amount: 0.000768
Amount Units: ng/ml



Reviewer: Z1IP, 03-Jan-2023 08:33:11

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 924 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

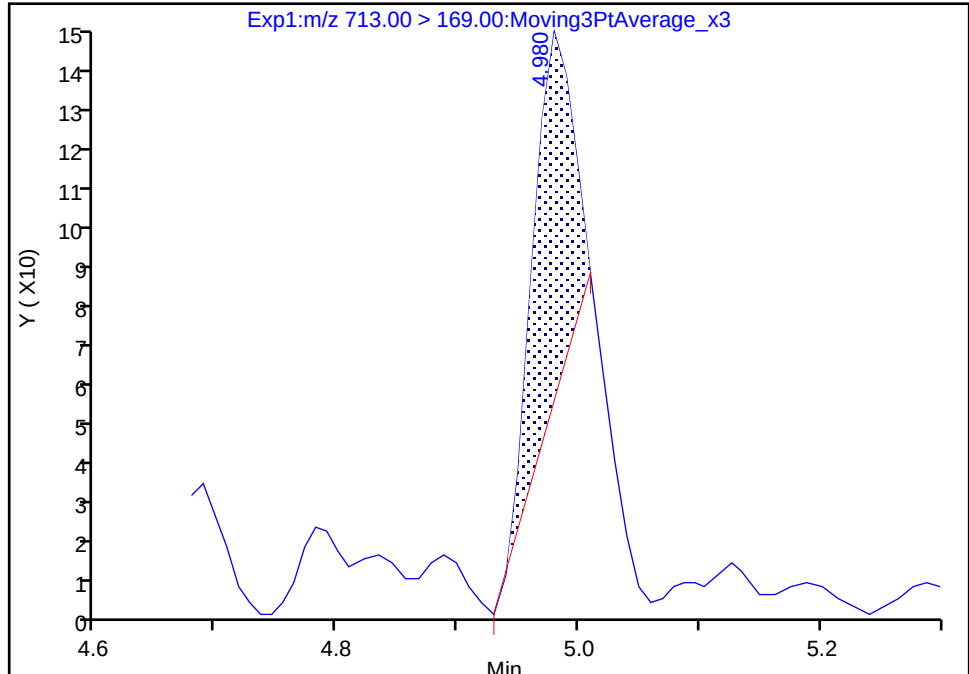
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

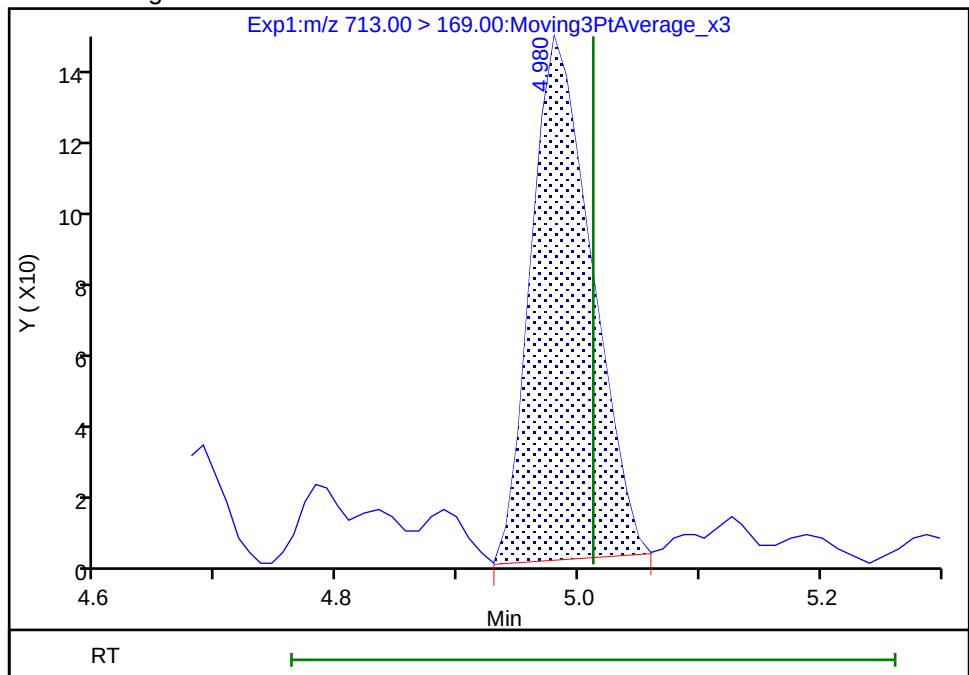
RT: 4.98
Area: 208
Amount: 0.000702
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 506
Amount: 0.001709
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:39:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

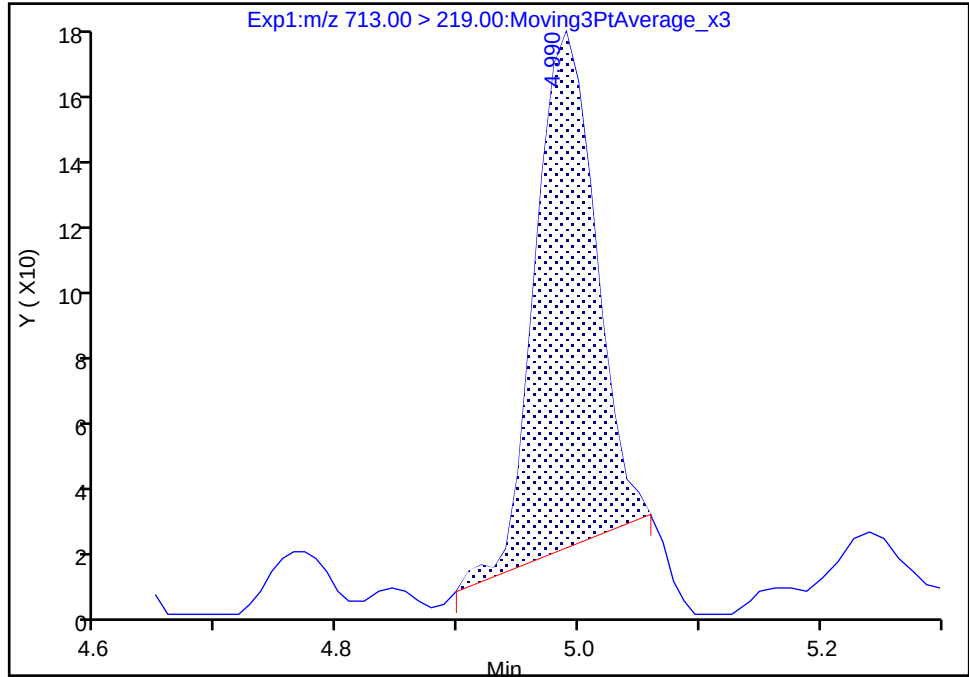
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

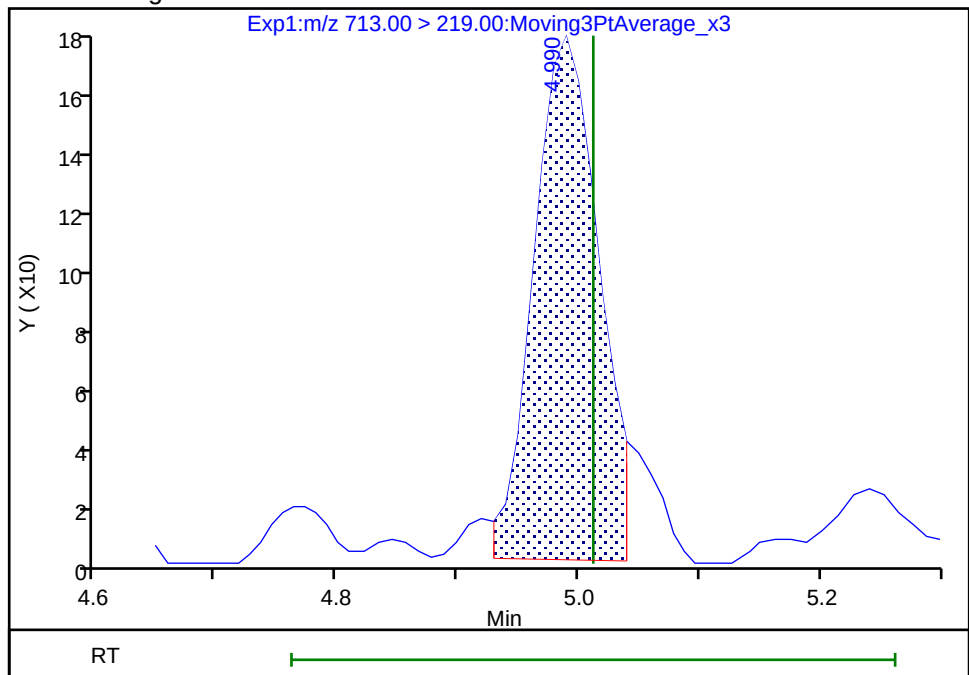
RT: 4.99
Area: 548
Amount: 0.000702
Amount Units: ng/ml

Processing Integration Results



RT: 4.99
Area: 649
Amount: 0.001709
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:39:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 926 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

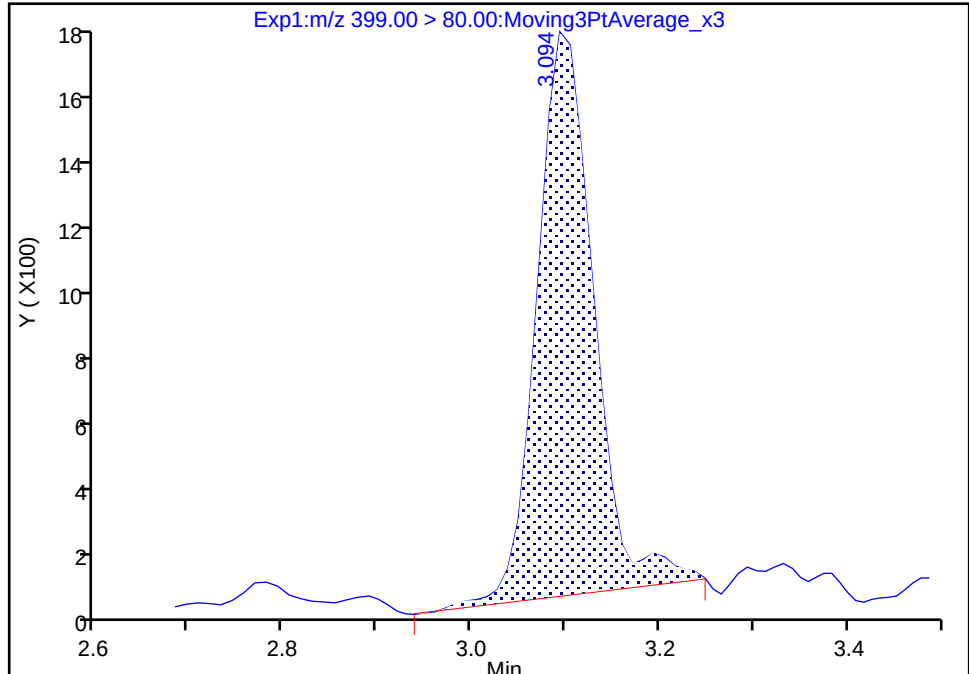
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

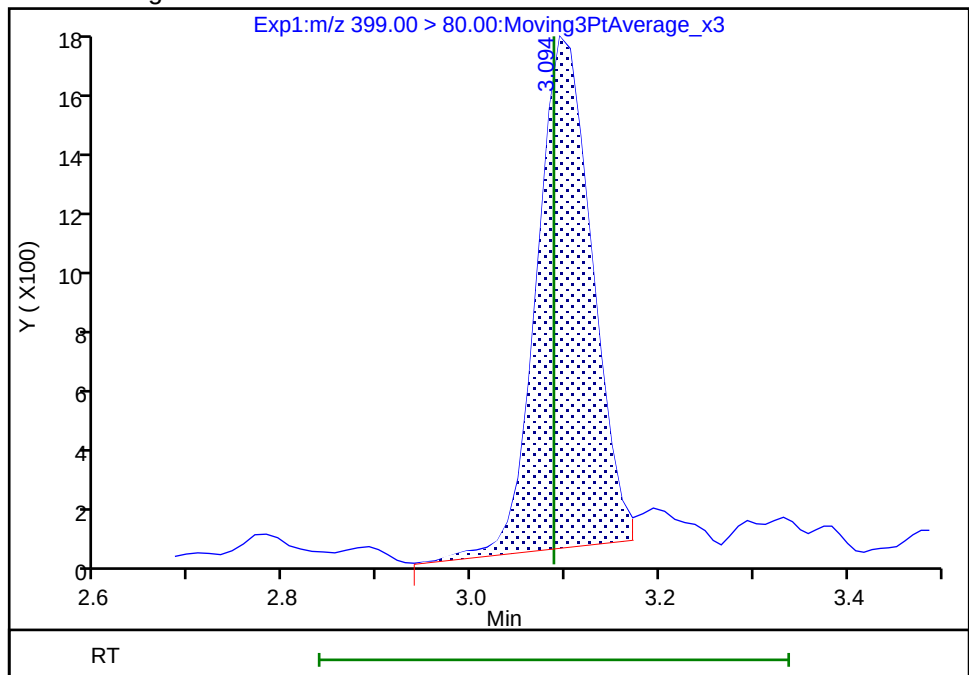
RT: 3.09
Area: 7211
Amount: 0.004137
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6953
Amount: 0.003989
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:32:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

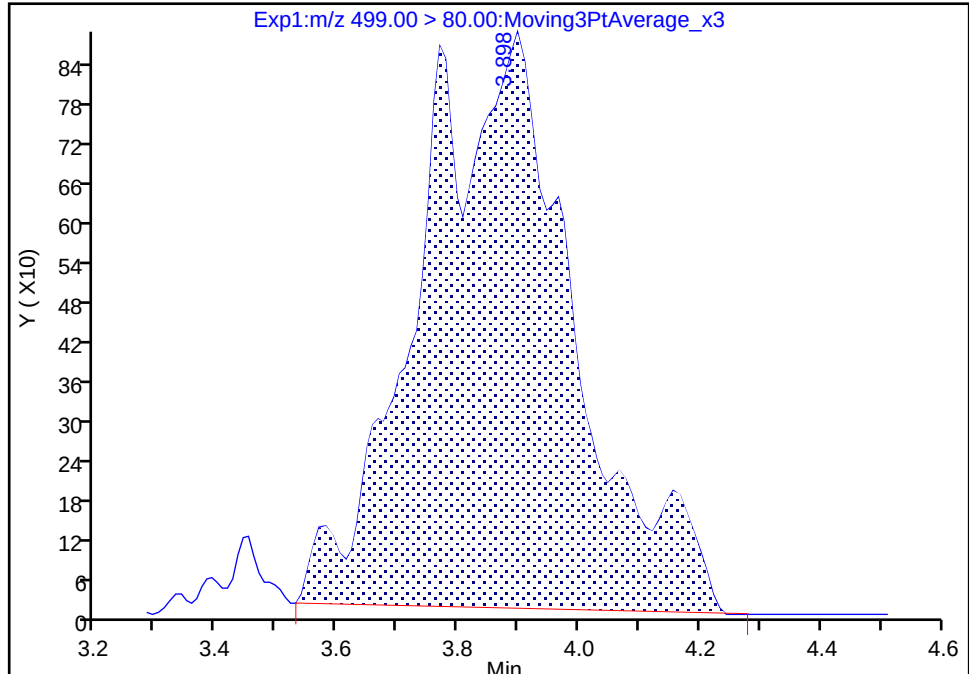
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

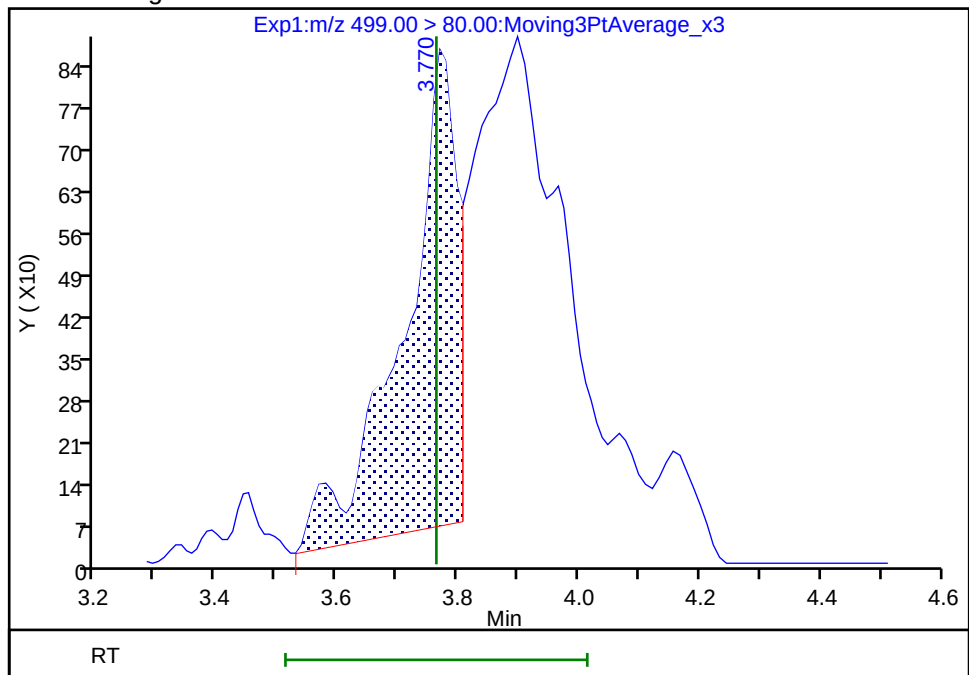
RT: 3.90
Area: 15672
Amount: 0.012653
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 4903
Amount: 0.003959
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:32:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d

Injection Date: 30-Dec-2022 13:09:29

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

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)

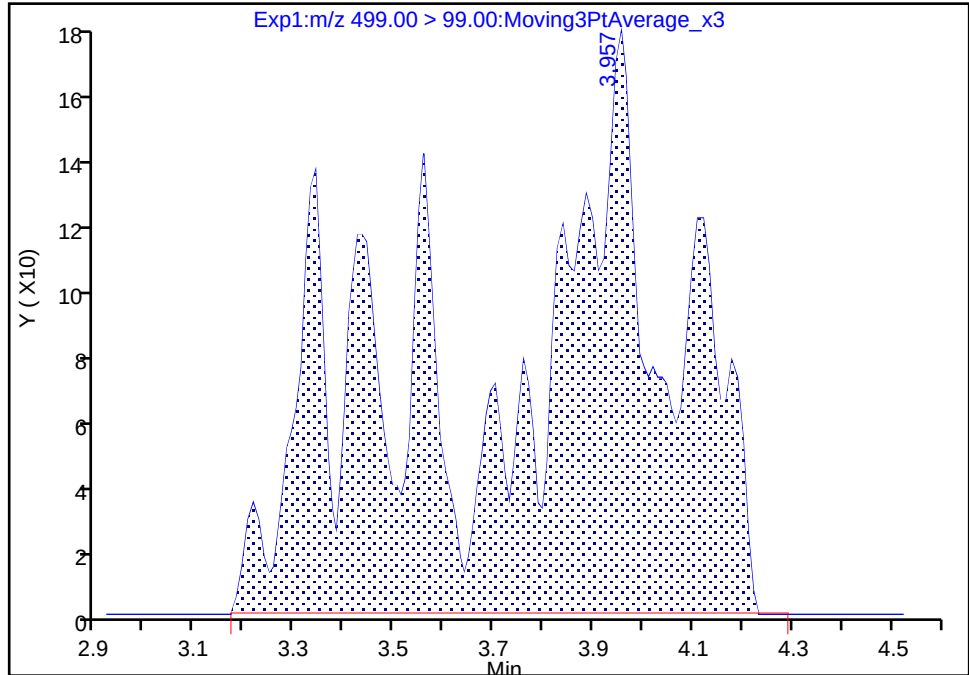
Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

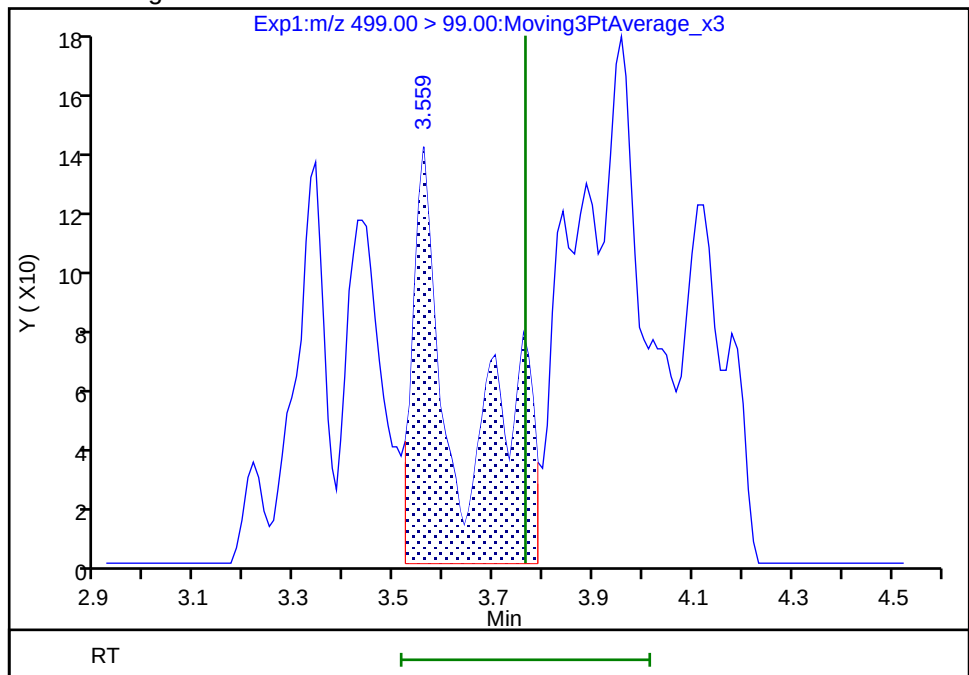
RT: 3.96
Area: 4432
Amount: 0.012653
Amount Units: ng/ml

Processing Integration Results



RT: 3.56
Area: 908
Amount: 0.003959
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:32:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 929 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

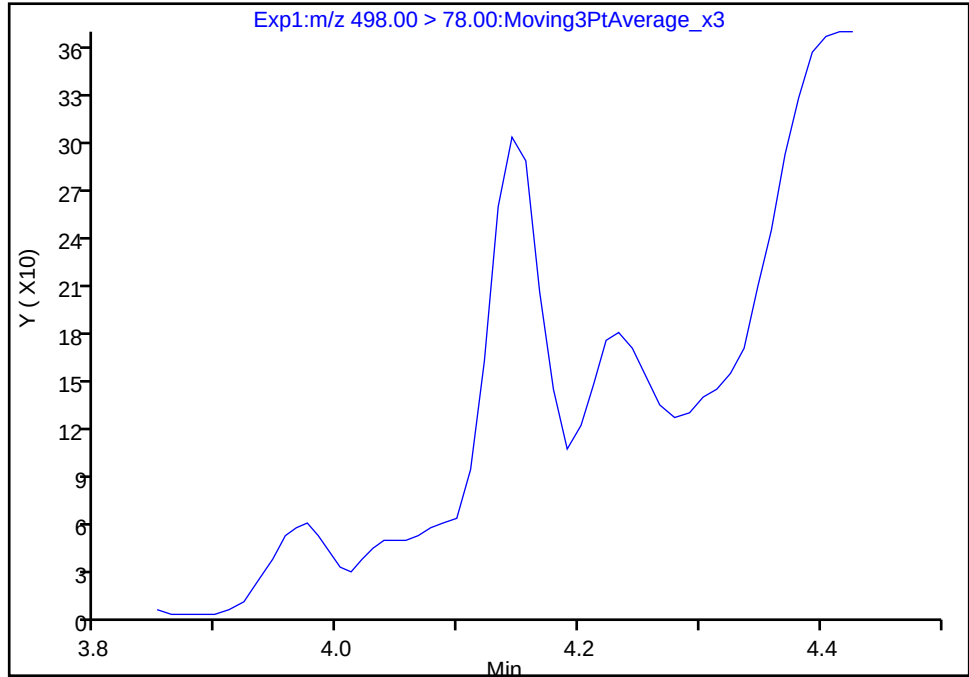
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

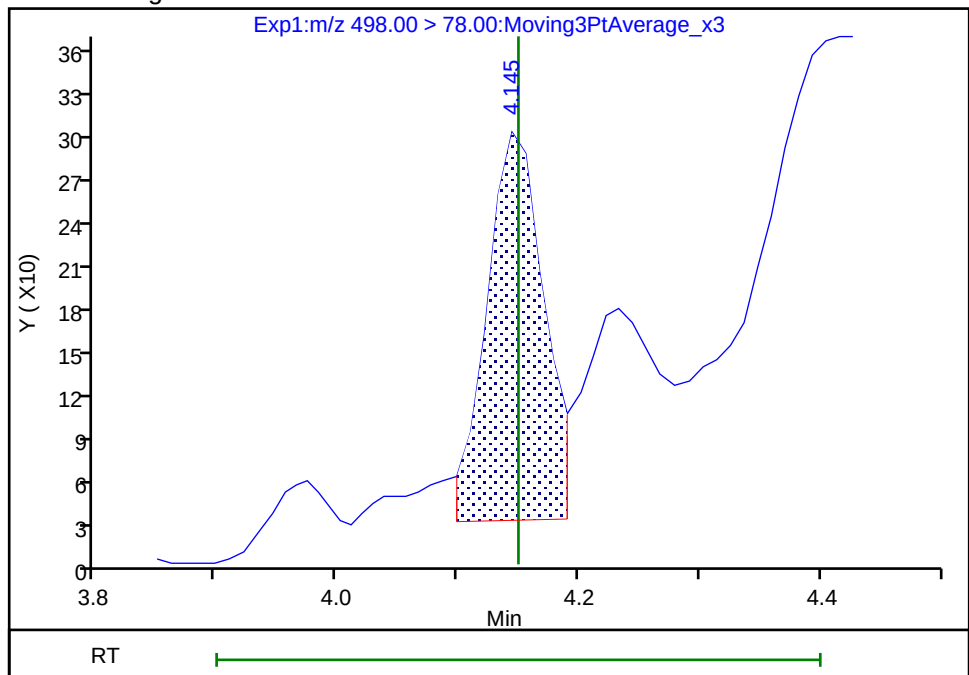
Signal: 1

Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:33:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d

Injection Date: 30-Dec-2022 13:09:29

Instrument ID: LC812

Lims ID: CCB

Client ID:

Operator ID: lc812tech

ALS Bottle#:

1

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)

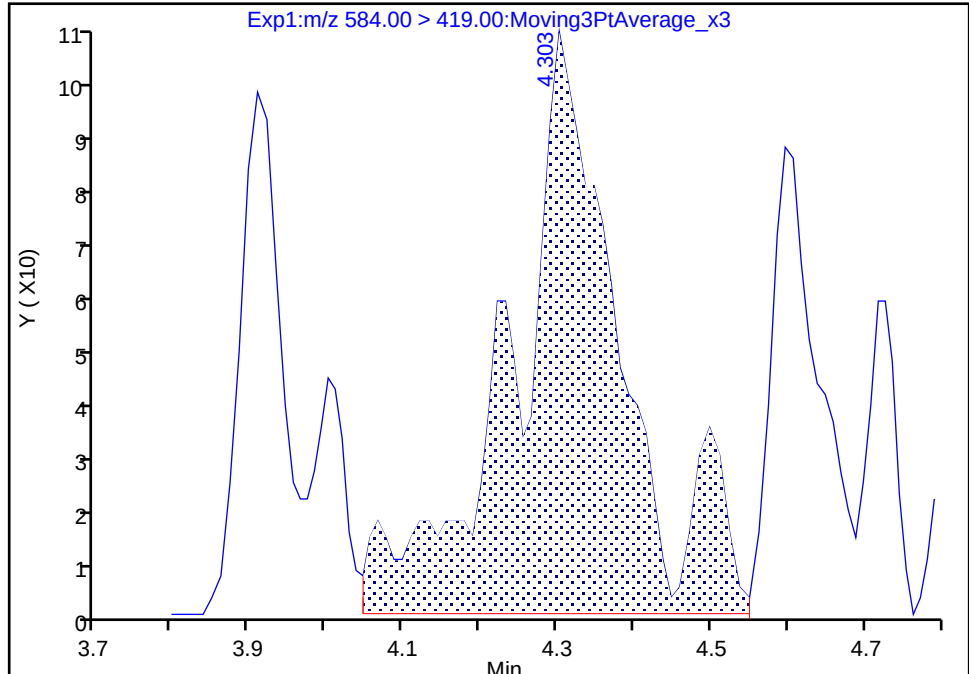
Detector: EXP1

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

Signal: 1

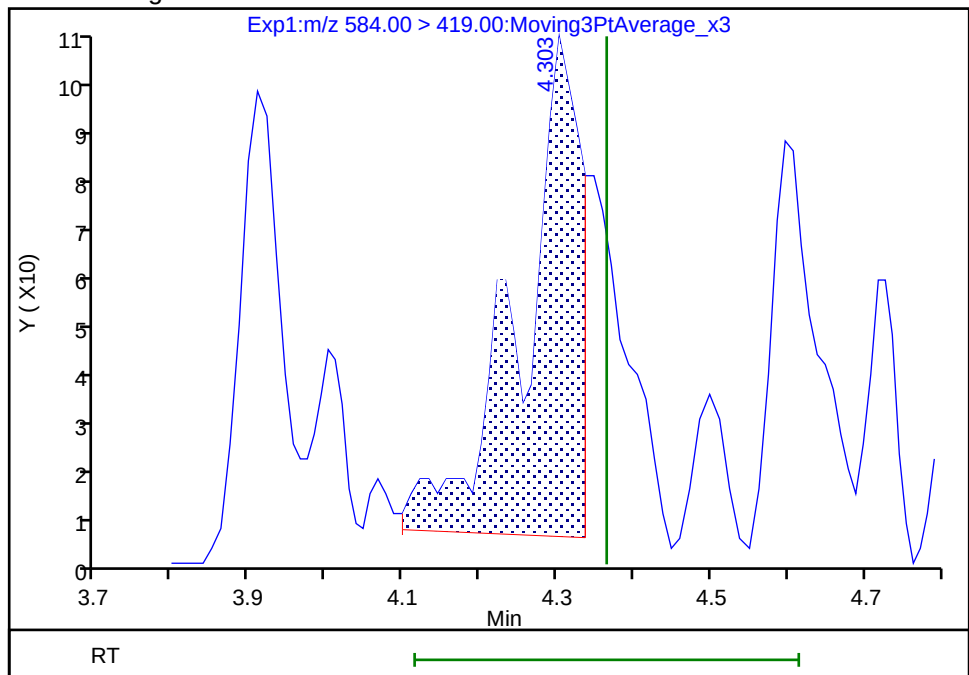
RT: 4.30
Area: 1054
Amount: 0.002686
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 530
Amount: 0.001351
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:34:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

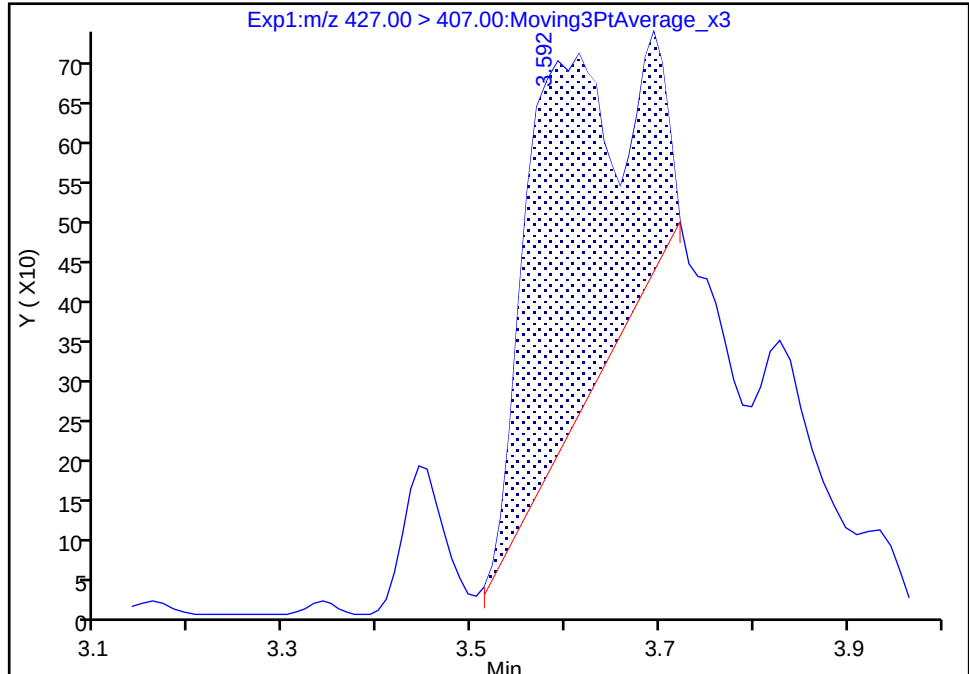
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

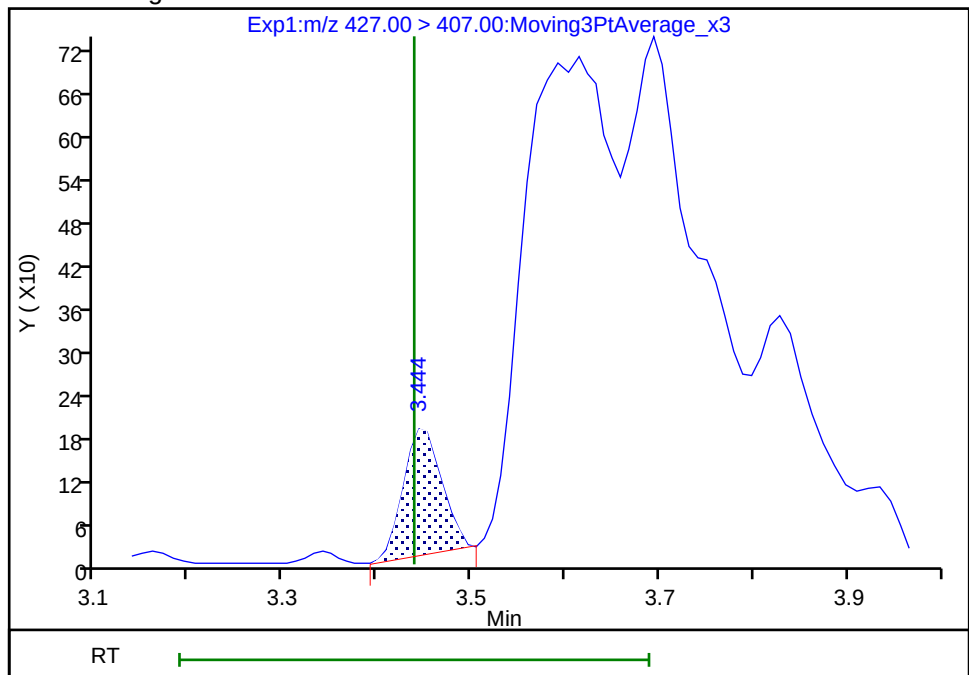
RT: 3.59
Area: 3670
Amount: -0.005707
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 505
Amount: -0.011024
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:32:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

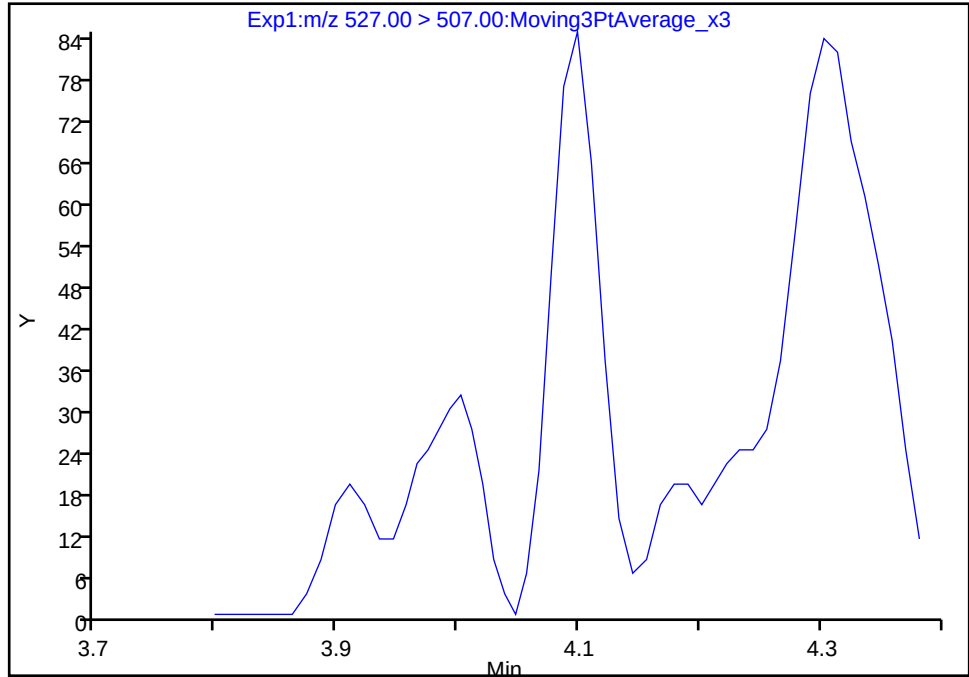
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A04.d
Injection Date: 30-Dec-2022 13:09:29 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

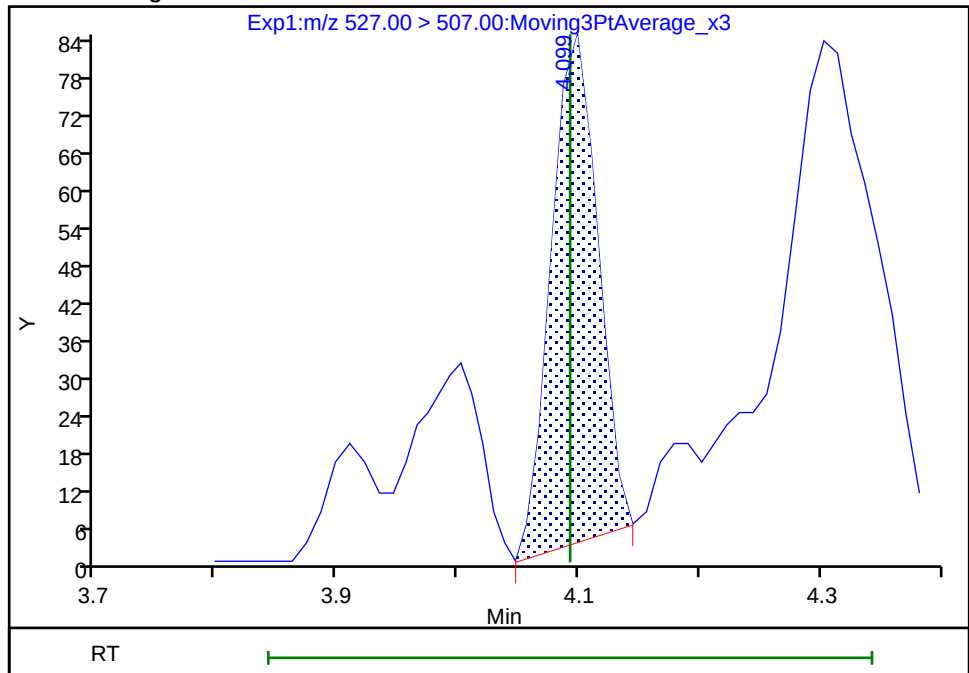
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.10
Area: 220
Amount: 0.000403
Amount Units: ng/ml

Reviewer: Z1IP, 03-Jan-2023 08:33:36
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11

Matrix: Water Lab File ID: PA221118ICAL11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185958 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.050	0.010
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.023
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.048
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.040
27619-97-2	6:2 FTS	0.13	U	0.13	0.032
39108-34-4	8:2 FTS	0.050	U	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-185958/11
 Matrix: Water Lab File ID: PA221118ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 11/18/2022 15:18
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185958 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	108		50-150
STL00990	13C4 PFOA	105		50-150
STL00995	13C5 PFNA	107		50-150
STL00992	13C4 PFBA	106		50-150
STL00993	13C2 PFHxA	109		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	107		50-150
STL00994	18O2 PFHxS	108		50-150
STL00998	13C2 PFDoA	107		50-150
STL00991	13C4 PFOS	111		50-150
STL01056	13C8 FOSA	107		50-150
STL01893	13C5 PFPeA	109		50-150
STL02116	13C2 PFTeDA	107		50-150
STL02118	d3-NMeFOSAA	108		50-150
STL02117	d5-NEtFOSAA	107		50-150
STL02279	M2-6:2 FTS	114		50-150
STL02337	13C3 PFBS	106		50-150
STL02280	M2-8:2 FTS	108		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 18-Nov-2022 15:18:56 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0053396-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 21-Nov-2022 08:33:11 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1621

First Level Reviewer: Z1IP

Date: 21-Nov-2022 08:27:16

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.076	2.076	0.0	0.602	2690789	1.32		106	7033	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.008	10011	0.004510			1.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	2109113	1.36		109	4718	
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2084598	1.24		106	323076	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4101	0.001999	Target=2.09		7.4	M
298.90 > 99.00	2.400	2.400	0.0	1.000	1875		2.19(1.04-3.13)		1.5	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	1019	0.002019			19.6	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	191220	1.28		110	184	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	2220169	1.37		109	4126	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	736	0.002396			6.3	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.822	363682	1.27		101	2231	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1571887	1.28		108	5837	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	7928	0.005284	Target=3.66		7.2	M
399.00 > 99.00	3.088	3.088	0.0	1.000	2543		3.12(1.83-5.49)		2.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.099	-0.011	0.896	2249421	1.35		108	5872	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.099	-0.011	1.000	5399	0.002756	Target=3.97		1.3	
363.00 > 169.00	3.099	3.099	0.0	1.004	1444		3.74(1.98-5.95)		4.1	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	7131	0.001403	Target=3.16		10.3	
377.00 > 85.00	3.132	3.132	0.0	0.832	2232		3.19(1.58-4.73)		4.5	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.439	0.0	0.997	278131	1.35		114	814	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.447	3.439	0.008	1.003	978	-0.009896			6.1	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.439	-0.009	0.911	1731	0.001343	Target=5.14		7.5	M
449.00 > 99.00	3.430	3.439	-0.009	0.911	631		2.74(2.57-7.72)		4.2	M
D 14 13C4 PFOA										
417.00 > 372.00	3.447	3.448	-0.001	1.000	2473585	1.32		105	5945	
* 62 13C2 PFOA										
415.00 > 370.00	3.447	3.448	-0.001		2270634	1.25			5212	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.465	3.448	0.017	1.005	5314	0.002512	Target=2.79		0.5	M
413.00 > 169.00	3.447	3.448	-0.001	1.000	2152		2.47(1.40-4.19)		3.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	1102903	1.32		111	5728	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.773	3.764	0.009	1.003	6863	0.006115	Target=5.11		1.4	RM
499.00 > 99.00	3.754	3.764	-0.010	0.997	740		9.27(2.55-7.66)		1.0	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	4415	0.002181	Target=8.55		1.1	RM
463.00 > 169.00	3.783	3.783	0.0	1.000	175		25.23(4.28-12.83)		2.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2439752	1.34		107	5749	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.044	3591	0.001394			17.8	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2433918	1.31		105	4864	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.081	0.0	1.000	5828	0.002760	Target=10.26		3.1	M
513.00 > 169.00	4.081	4.081	0.0	1.000	996		5.85(5.13-15.38)		2.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	326180	1.29		108	1038	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.093	0.011	1.003	1048	0.002379			14.9	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	5835	0.003421			8.3	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	2040818	1.34		107	1565	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	512181	1.35		108	3816	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.228	0.010	1.002	10172	0.0172		25.3		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	1686	0.002521	Target=2.51	22.5		
599.00 > 99.00	4.319	4.331	-0.012	1.148	530		3.18(1.25-3.76)	6.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2279670	1.34		107	7599	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.353	0.0	1.000	6156	0.003349	Target=9.88	3.3		M
563.00 > 169.00	4.353	4.353	0.0	1.000	773		7.96(4.94-14.82)	9.9		M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.365	0.011	1.003	10302	0.0289		44.5		M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.365	0.0	1.266	498484	1.34		107	830	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.454	0.0	1.183	7763	0.001955		32.0		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.000	6630	0.003355	Target=7.77	0.6		M
613.00 > 169.00	4.602	4.591	0.011	1.002	984		6.74(3.89-11.66)	8.3		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.591	0.0	1.332	2331608	1.34		107	5785	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.612	0.0	1.127	535	0.002021		6.8		M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.776	0.0	1.269	595	0.002102	Target=0.50	9.0		M
699.00 > 99.00	4.767	4.776	-0.009	1.267	1589		0.37(0.25-0.76)	19.8		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.804	-0.001	1.046	7233	0.003827	Target=5.21	0.6		
663.00 > 169.00	4.813	4.804	0.009	1.048	1768		4.09(2.60-7.81)	11.4		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.012	-0.010	0.998	1409	0.006412	Target=0.89	12.0		M
713.00 > 219.00	5.002	5.012	-0.010	0.998	1526		0.92(0.44-1.33)	15.6		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.012	0.0	1.454	2006376	1.34		107	4997	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.378	5.367	0.011	1.002	35047	0.002340	Target=5.65	3.3		
813.00 > 169.00	5.367	5.367	0.0	1.000	5819		6.02(2.82-8.47)	38.2		
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.367	5.367	0.0	1.557	2453441	1.32		106	2133	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.722	0.009	1.068	14605	0.009035	Target=6.24	1.8		M
913.00 > 169.00	5.722	5.722	0.0	1.066	2239		6.52(3.12-9.36)	27.5		M

[QC Flag Legend](#)

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

[Reagents:](#)

PFAS32NCBLK20_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d

Injection Date: 18-Nov-2022 15:18:56

Instrument ID: LC812

Lims ID: ICB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

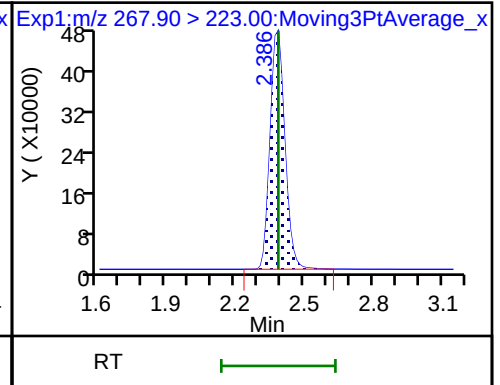
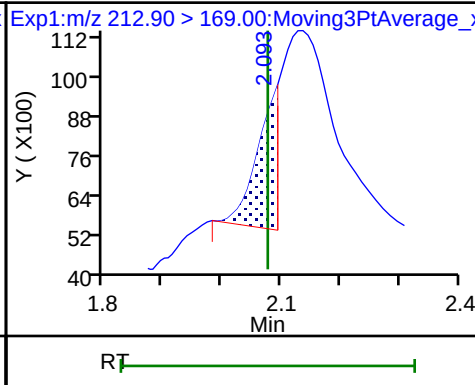
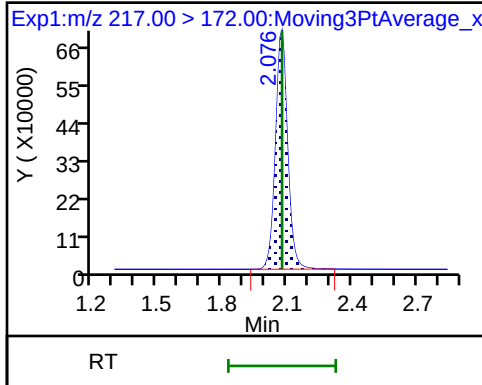
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

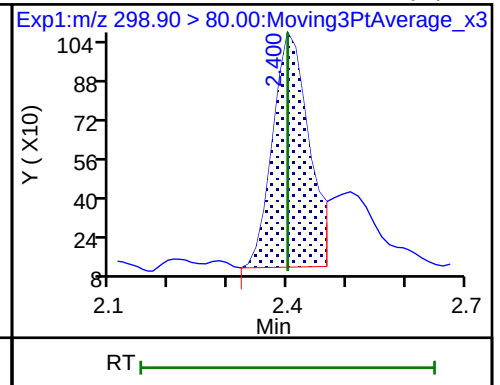
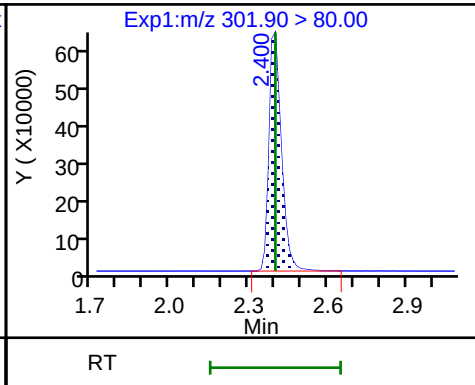
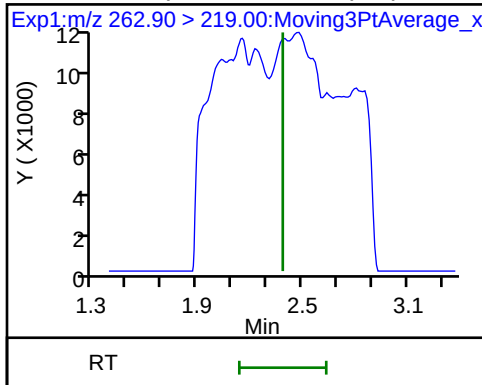
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS

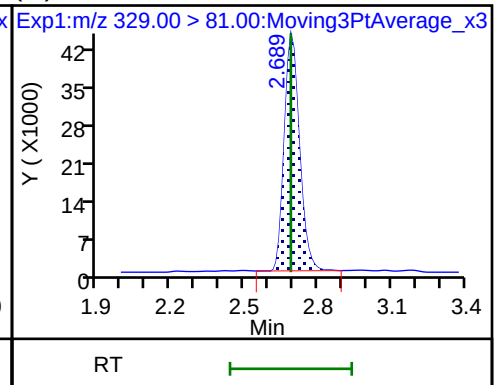
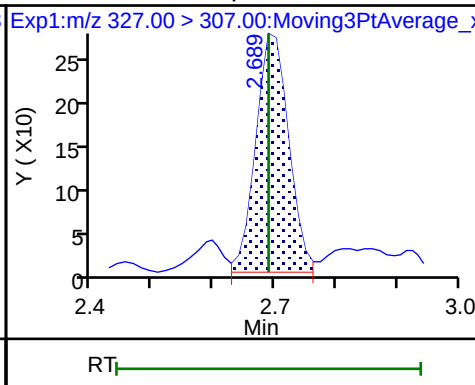
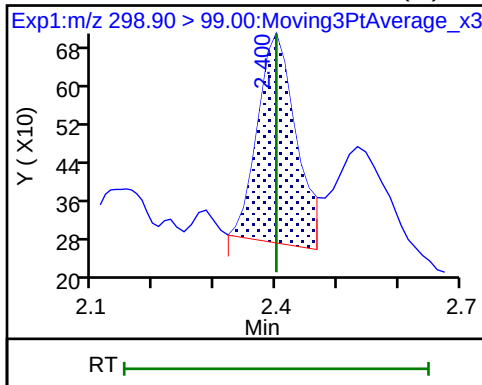
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

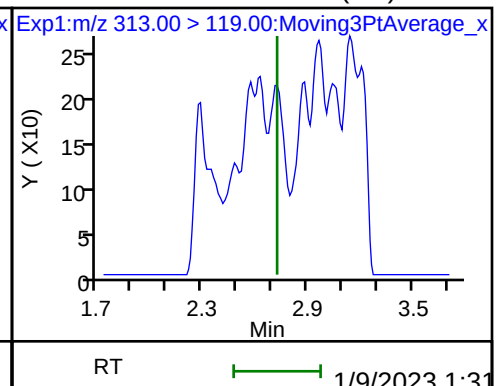
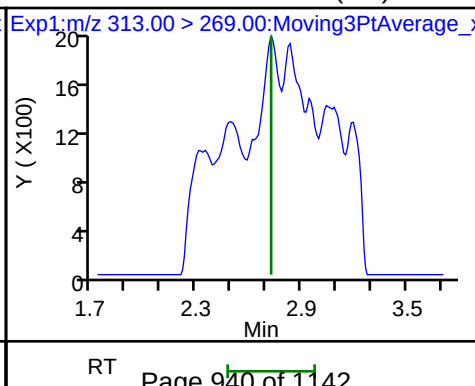
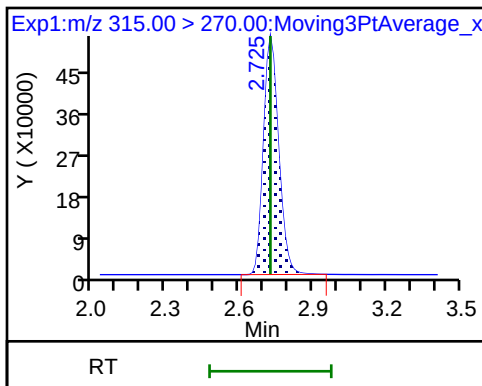
D 50 M2-4:2 FTS



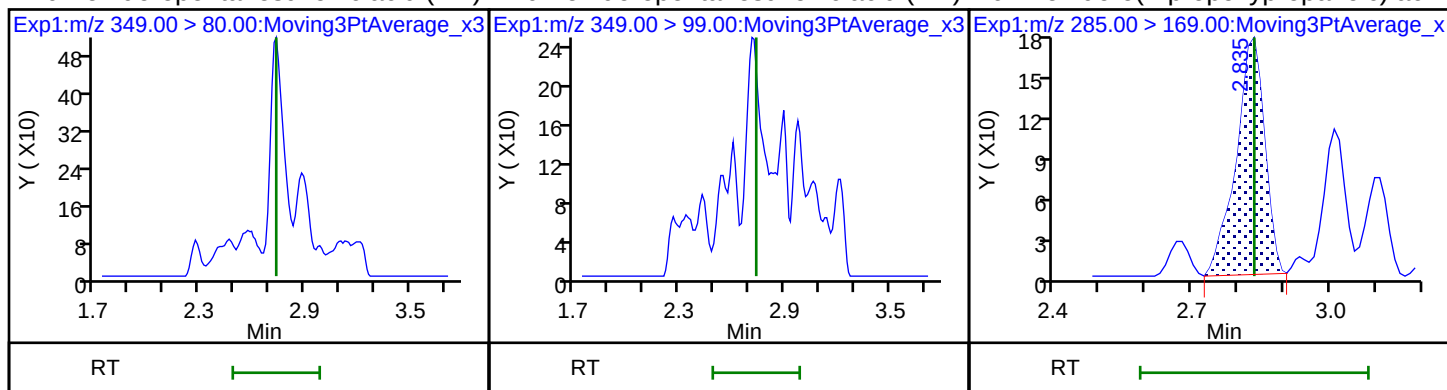
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

6 Perfluorohexanoic acid (ND)



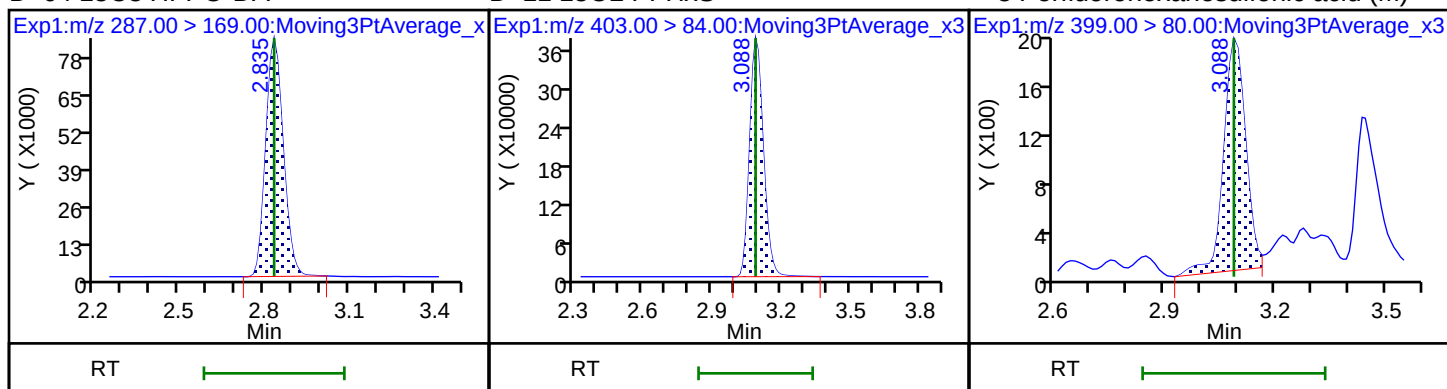
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) 67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

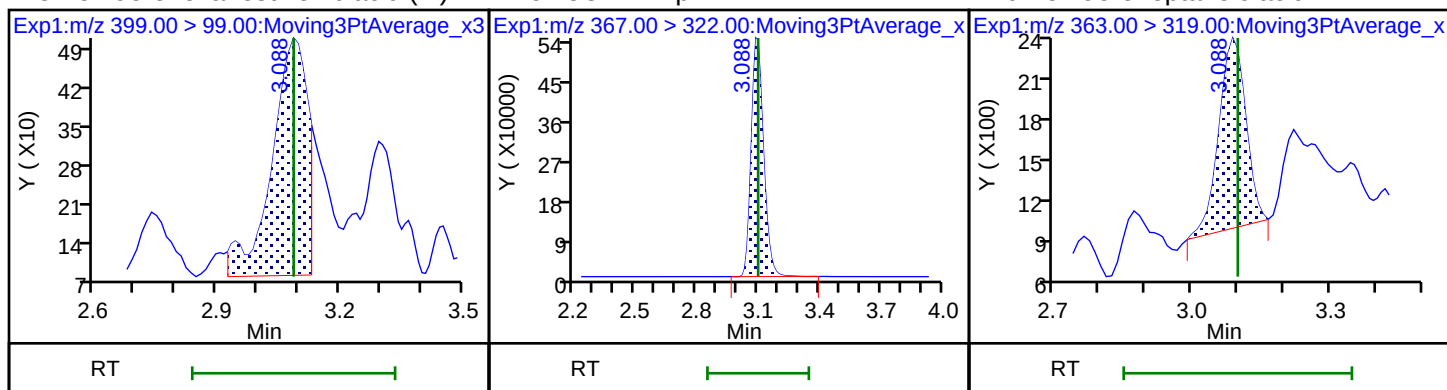
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

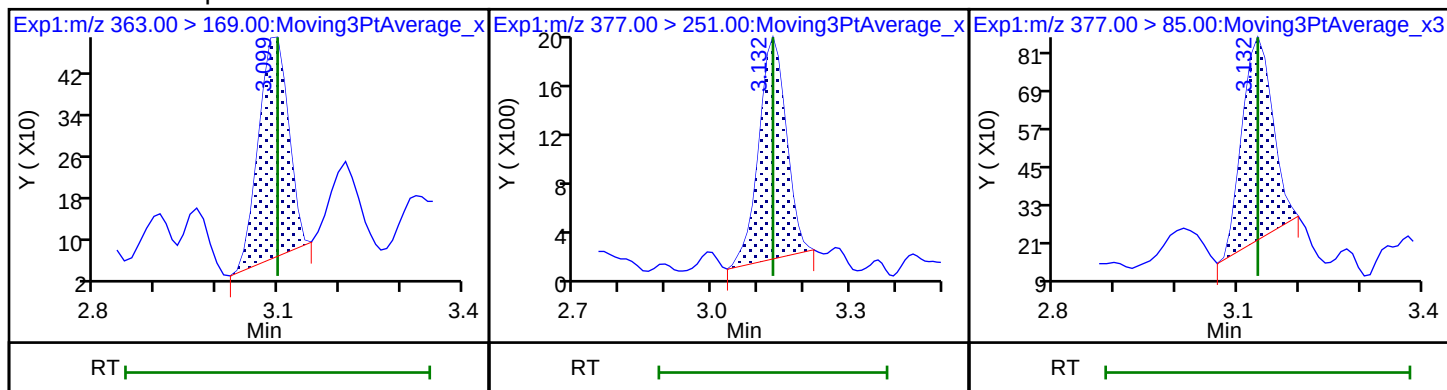
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid

77 DONA

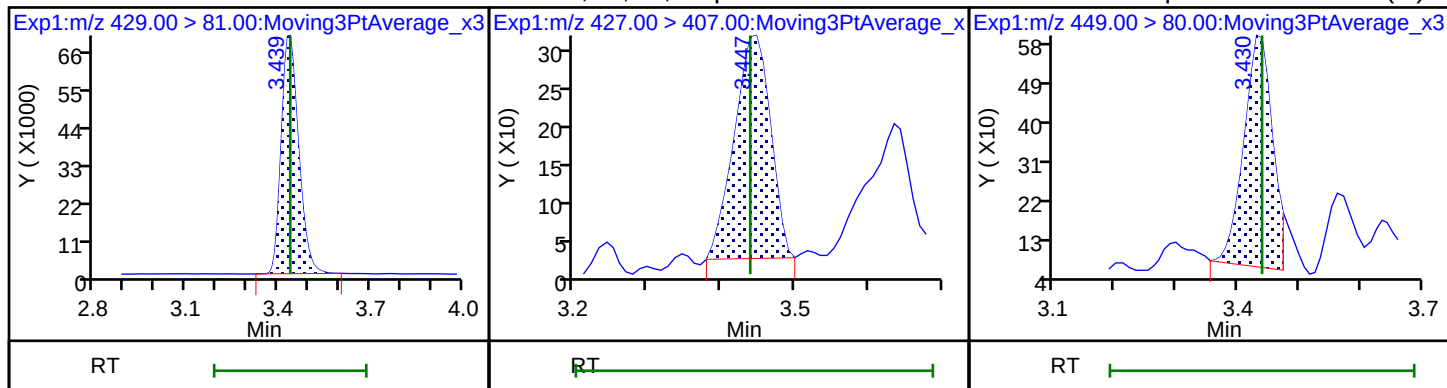
77 DONA



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

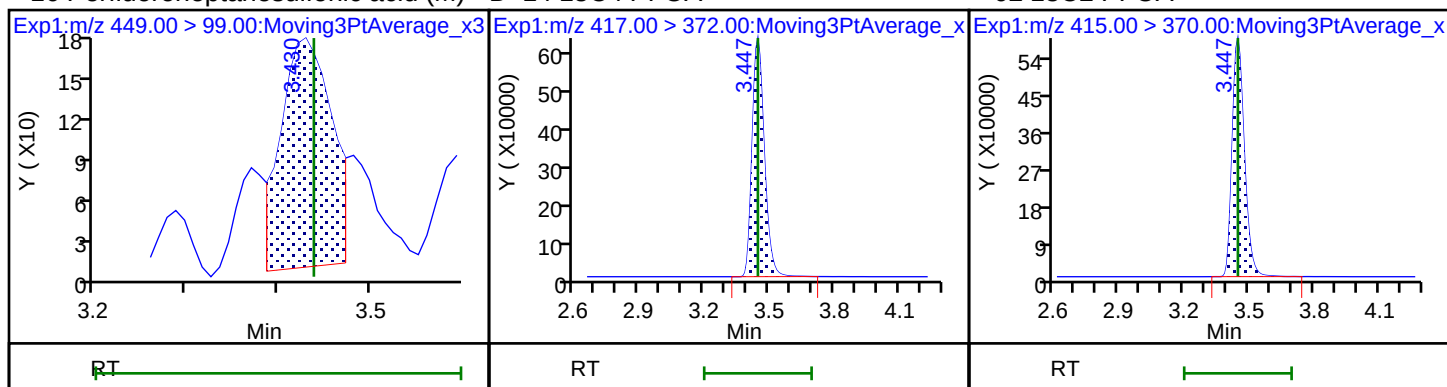
16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

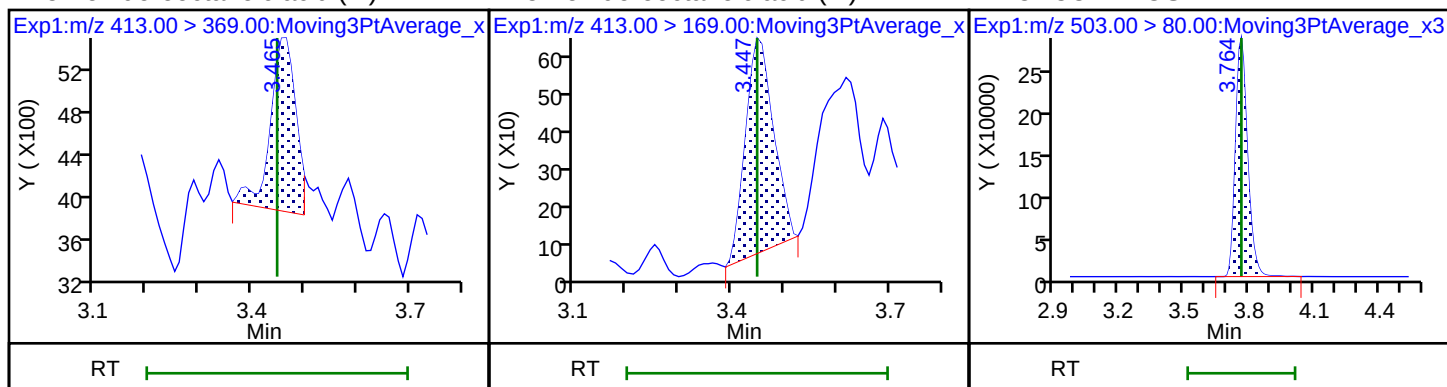
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

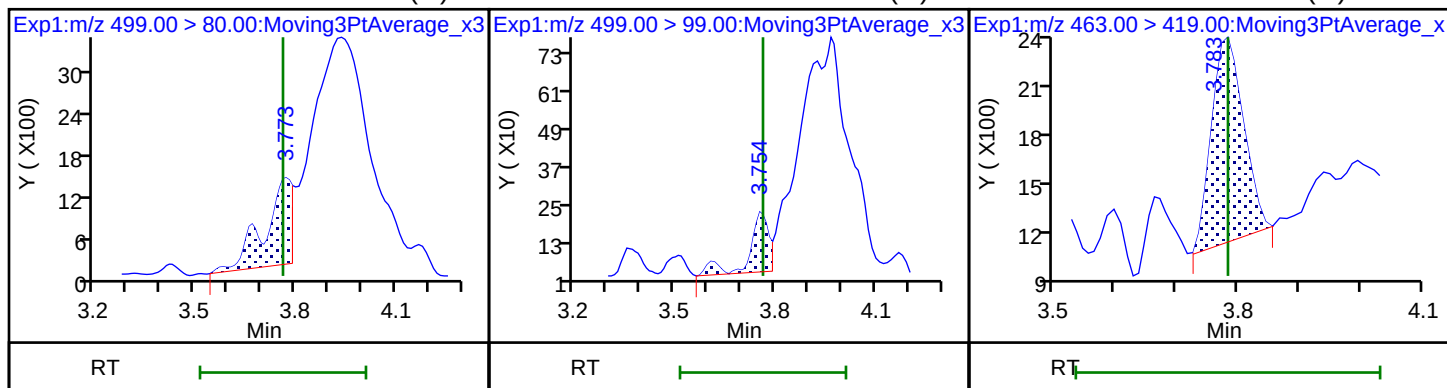
D 18 13C4 PFOS

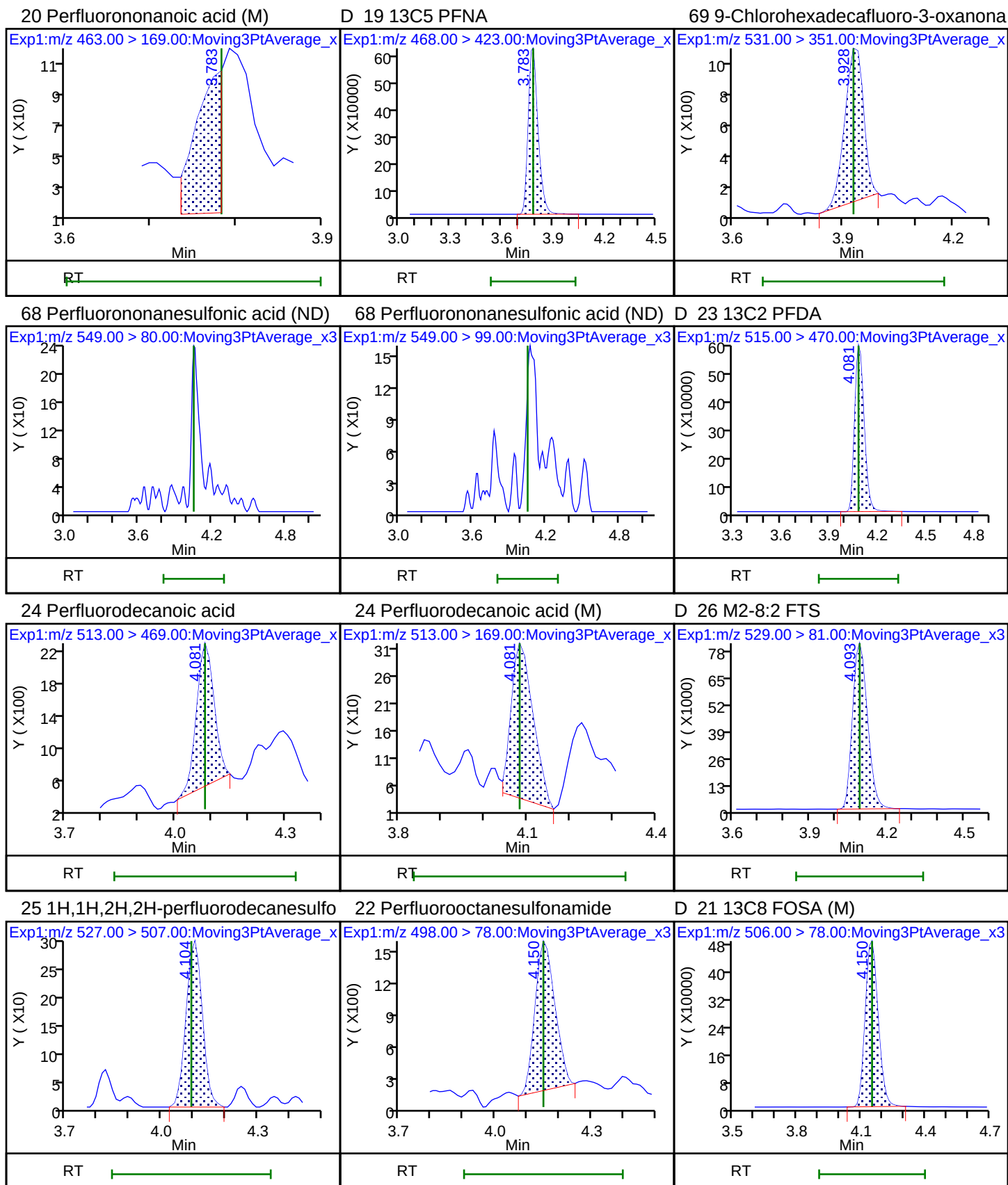


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

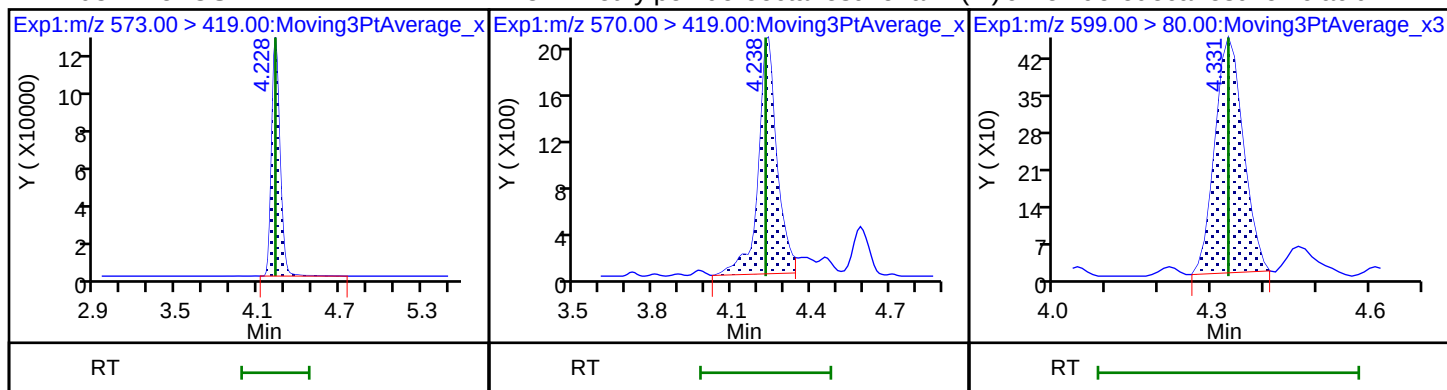
20 Perfluorononanoic acid (M)





D 27 d3-NMeFOSAA

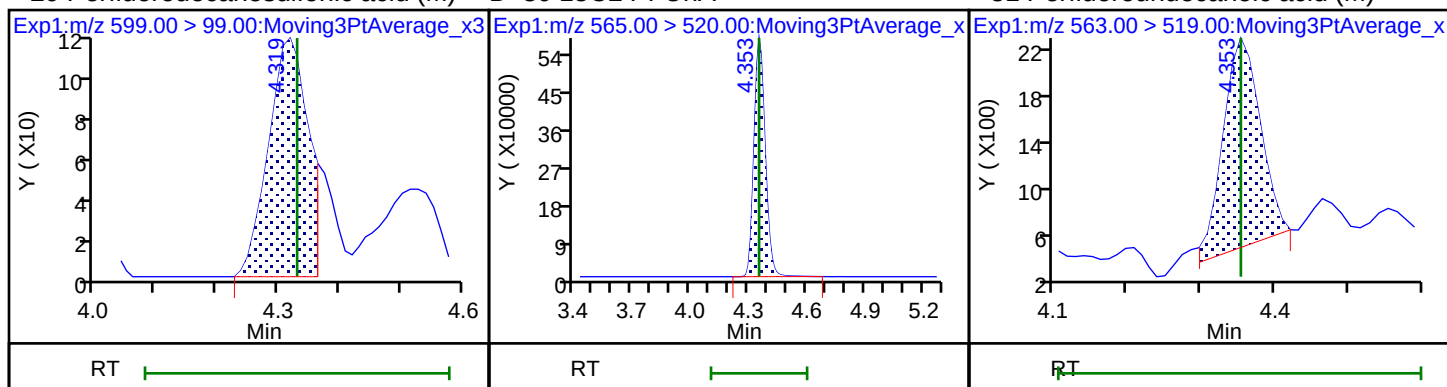
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

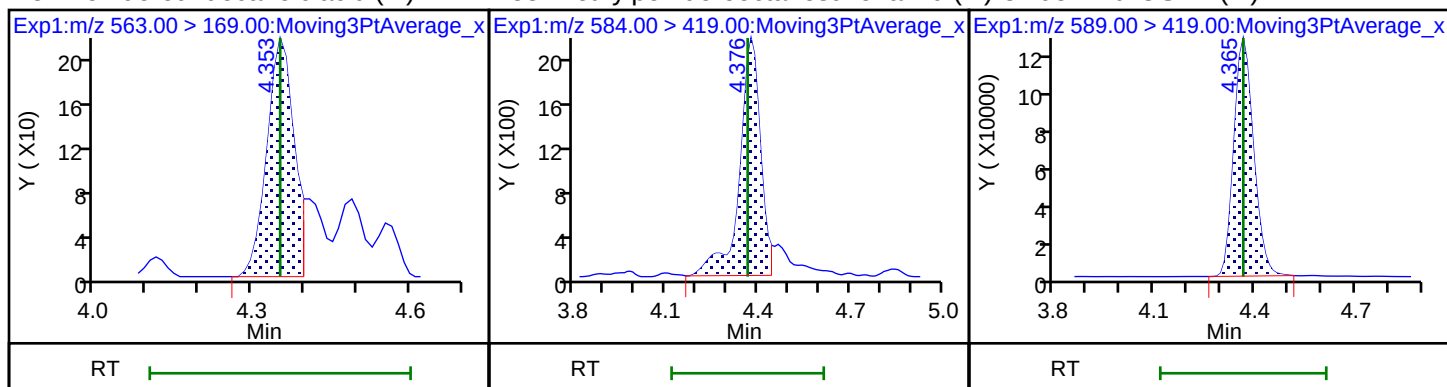
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

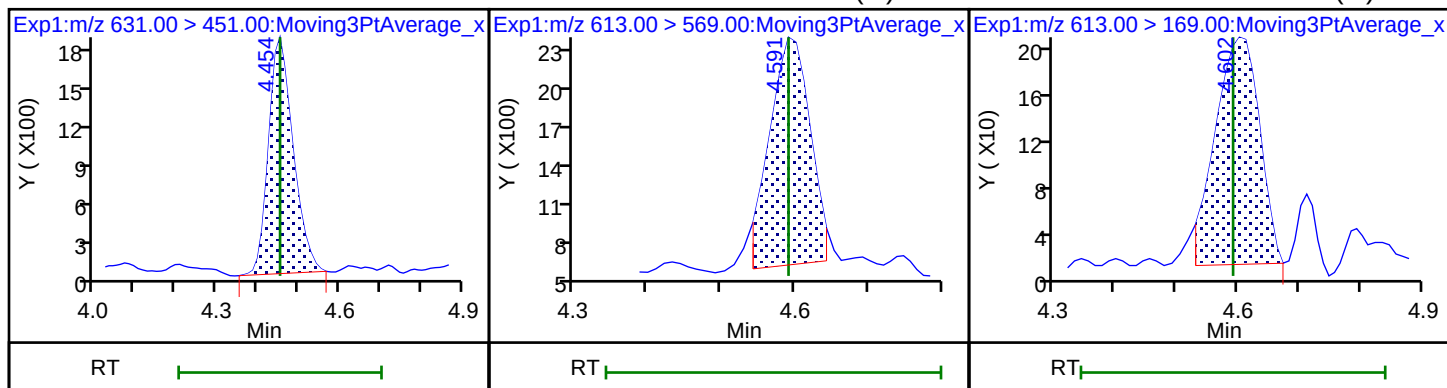
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA (M)



66 11-Chloroeicosafluoro-3-oxaundec

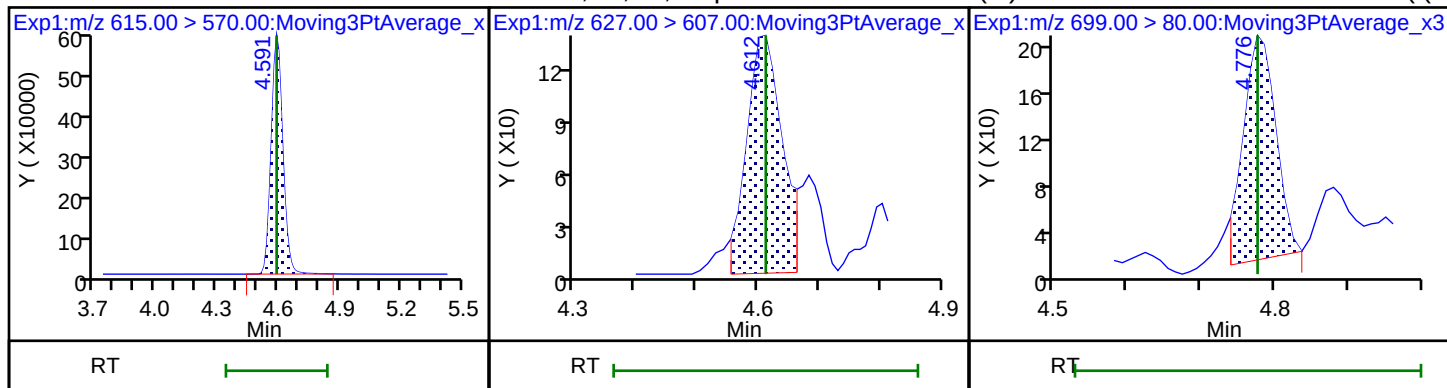
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



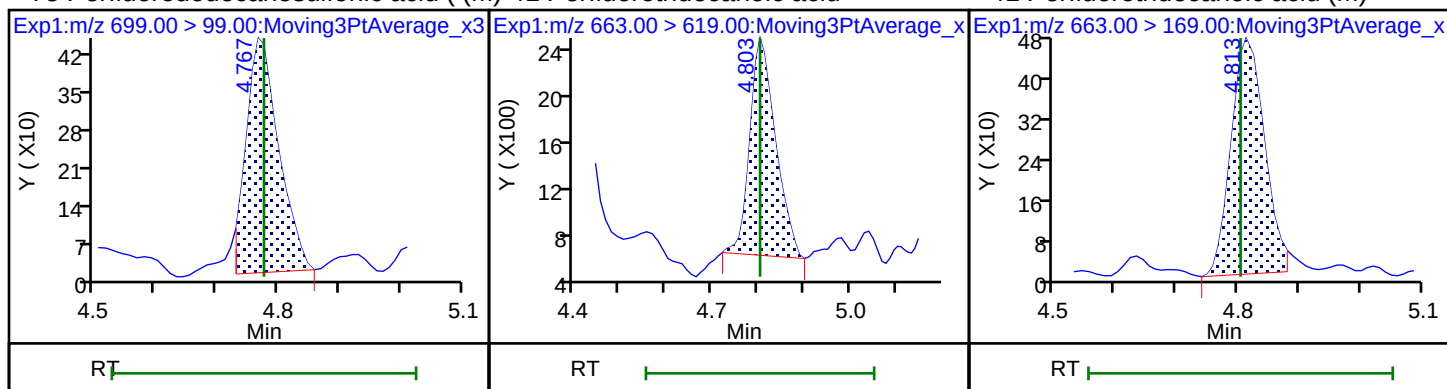
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid

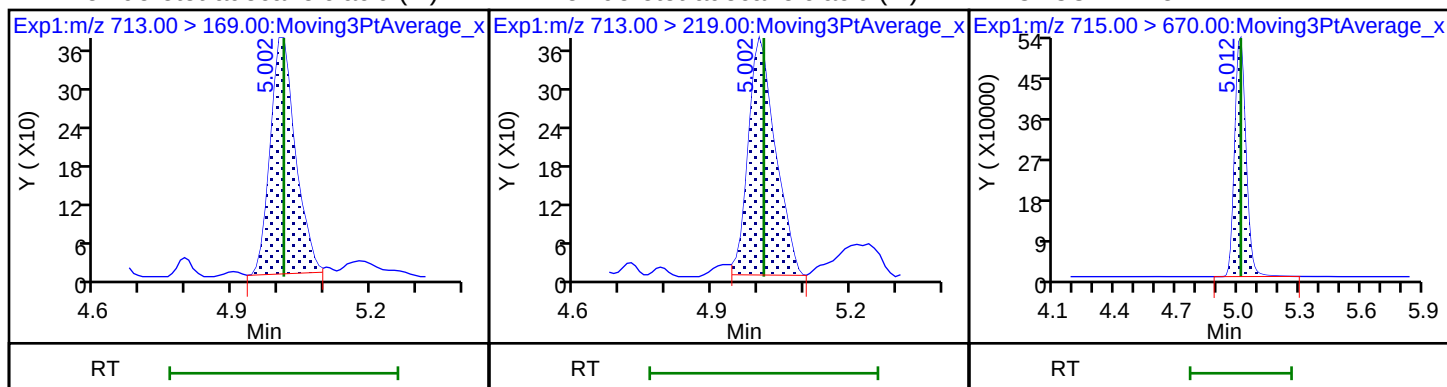
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

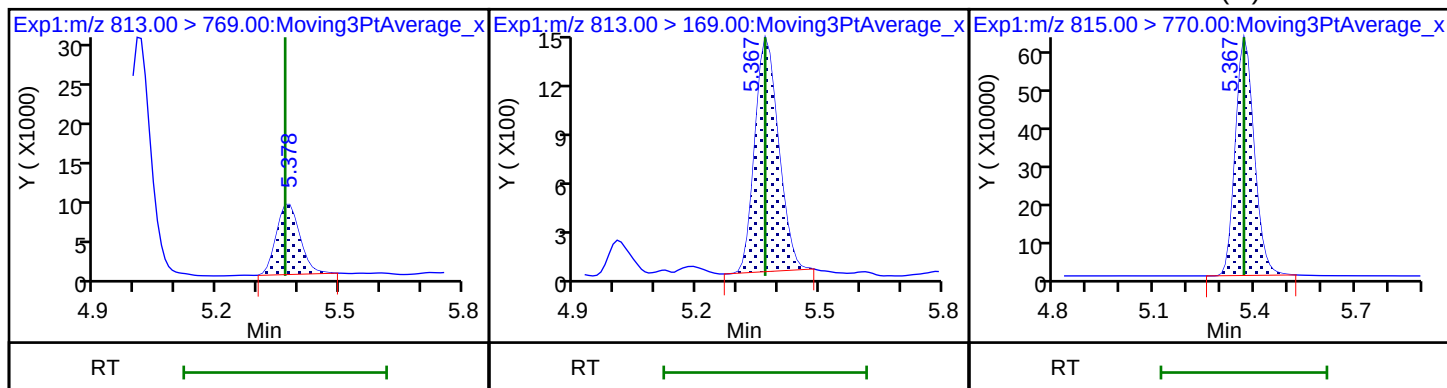
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

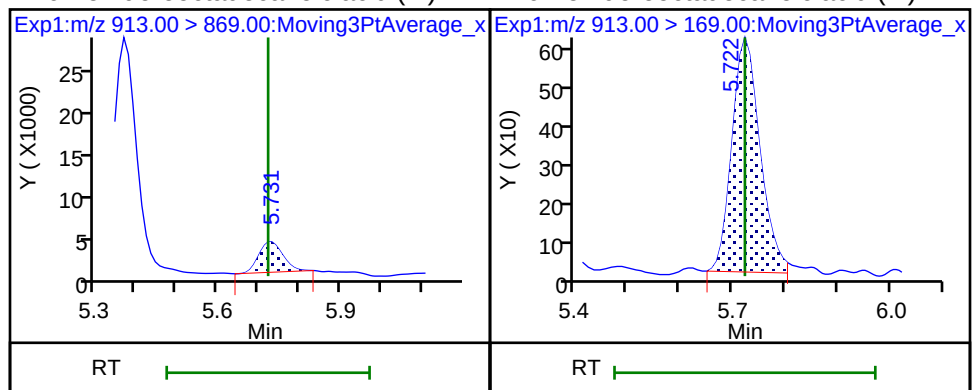
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

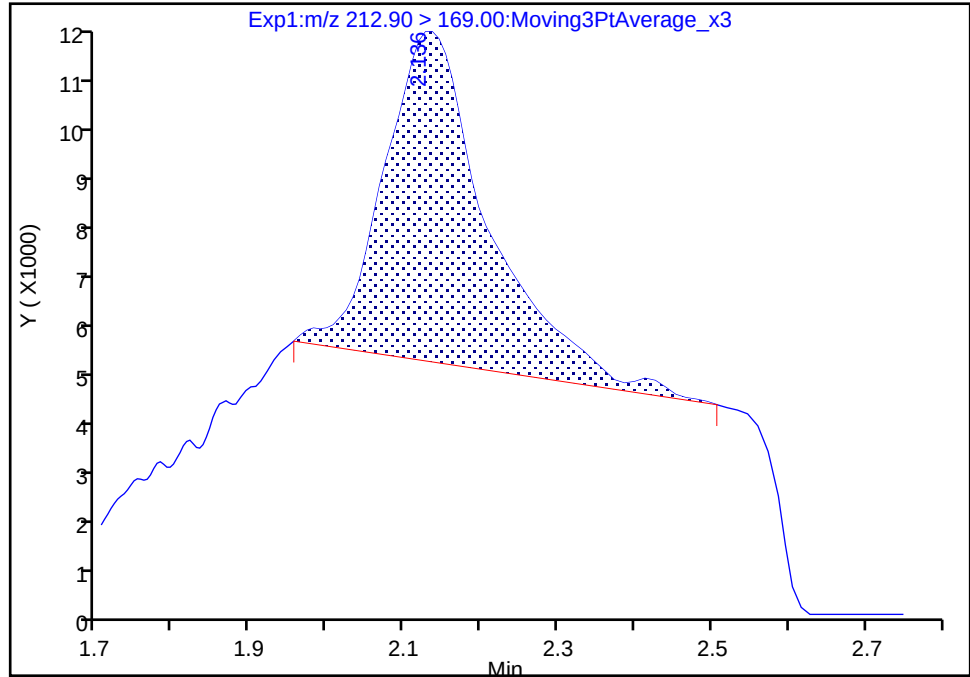
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

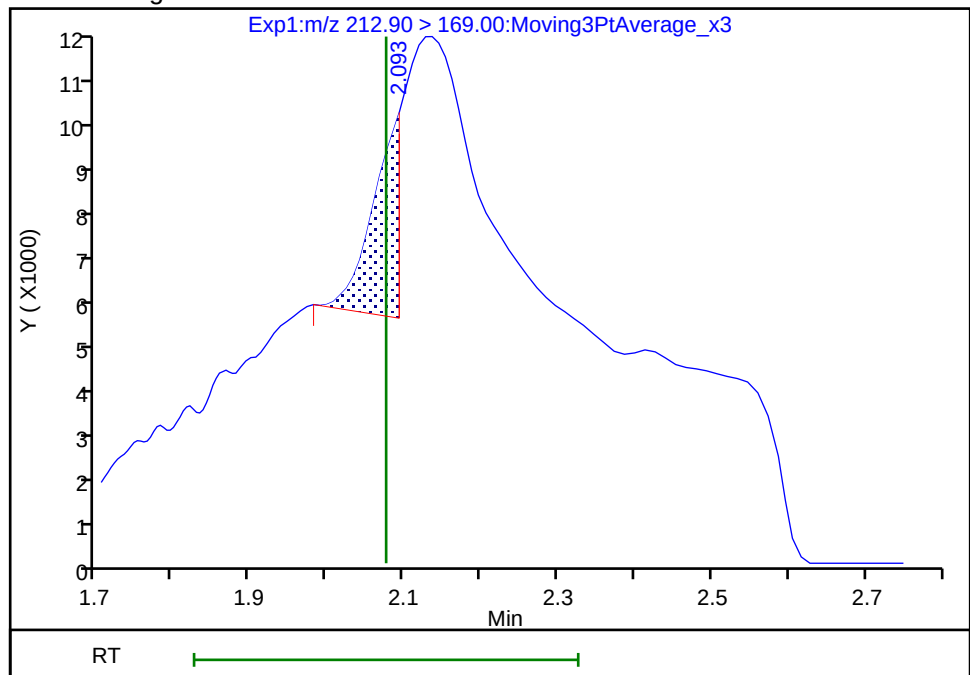
RT: 2.14
Area: 60893
Amount: 0.027432
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 10011
Amount: 0.004510
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

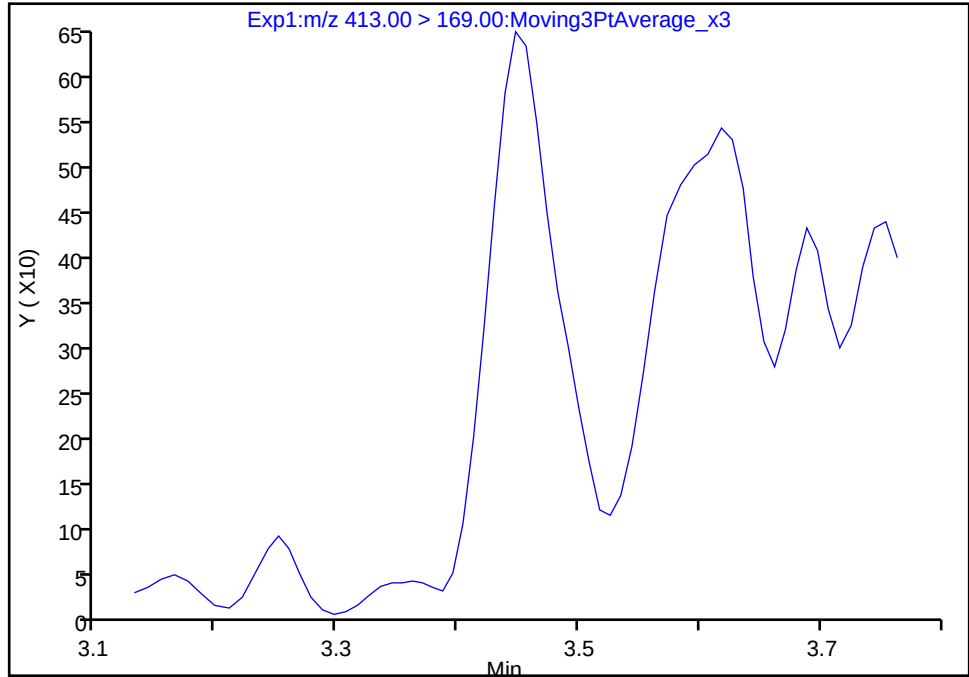
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

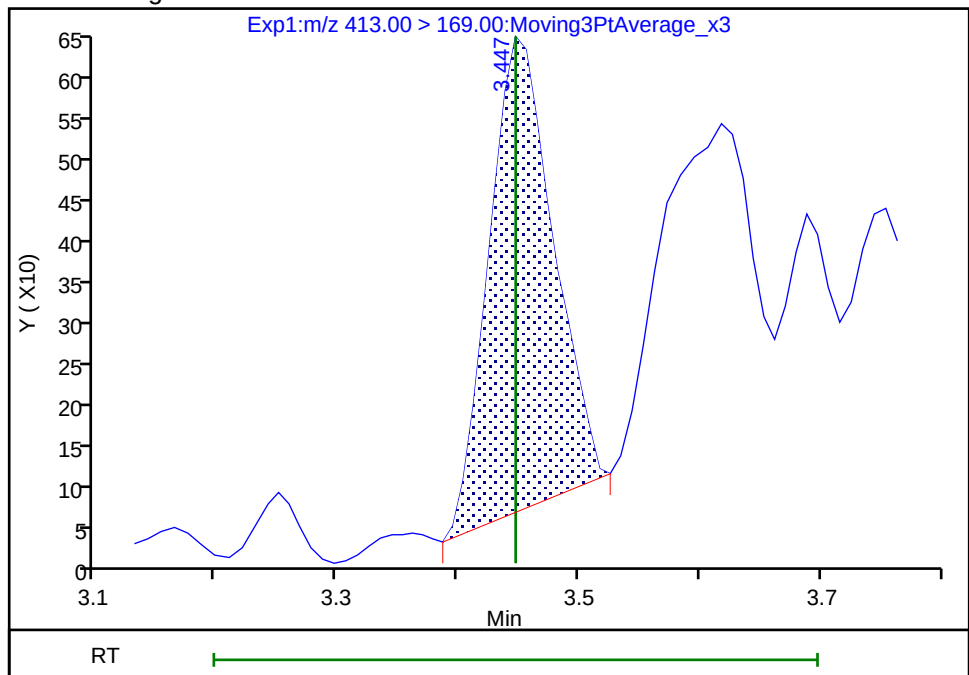
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 2152
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

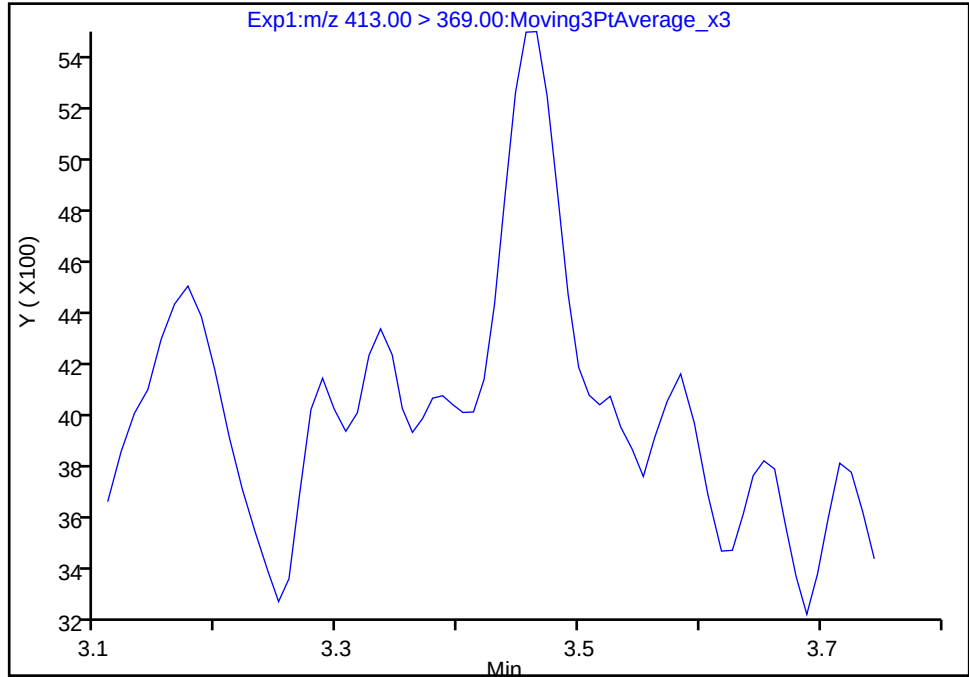
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

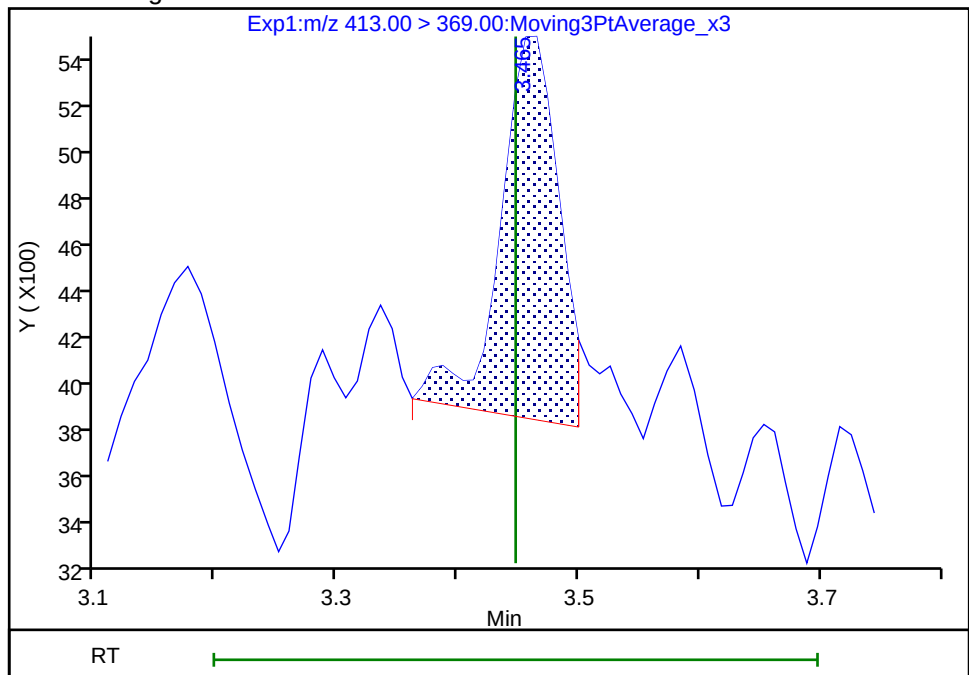
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 5314
Amount: 0.002512
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:22:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 949 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

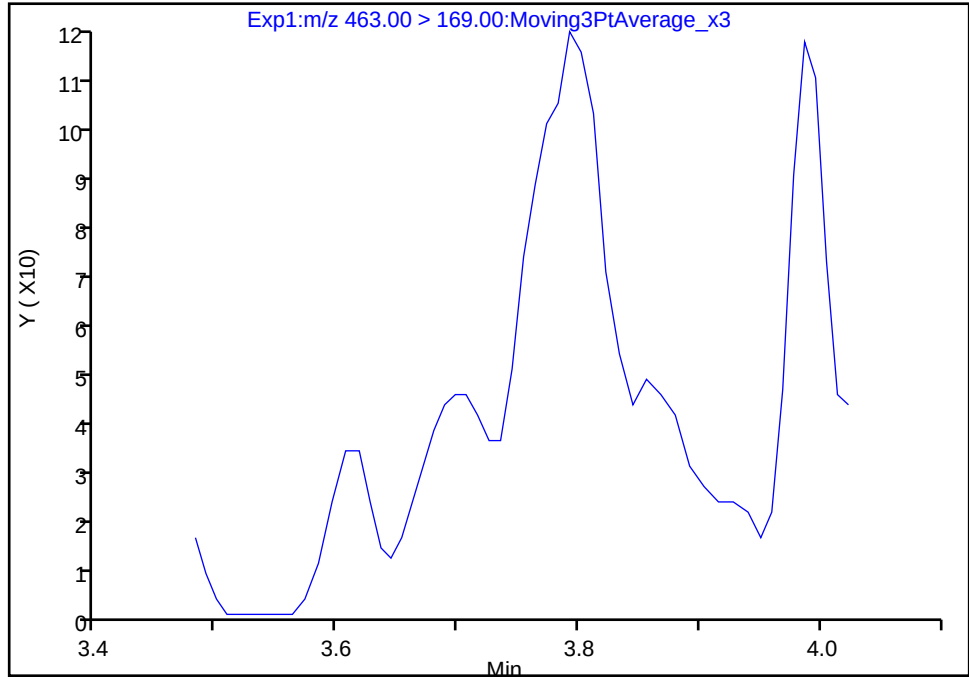
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

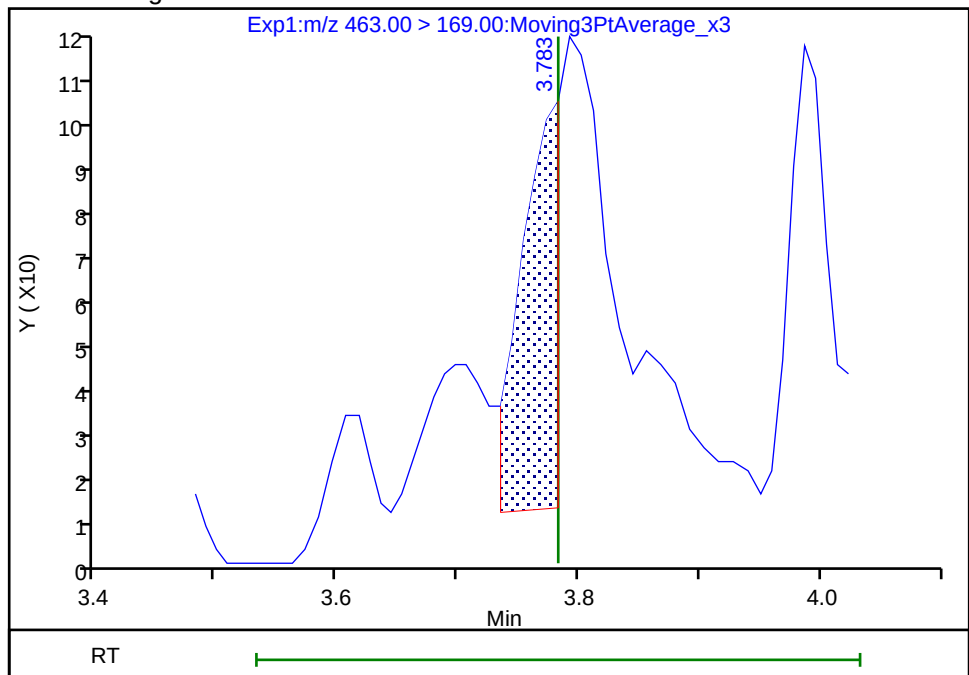
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 175
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:26
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

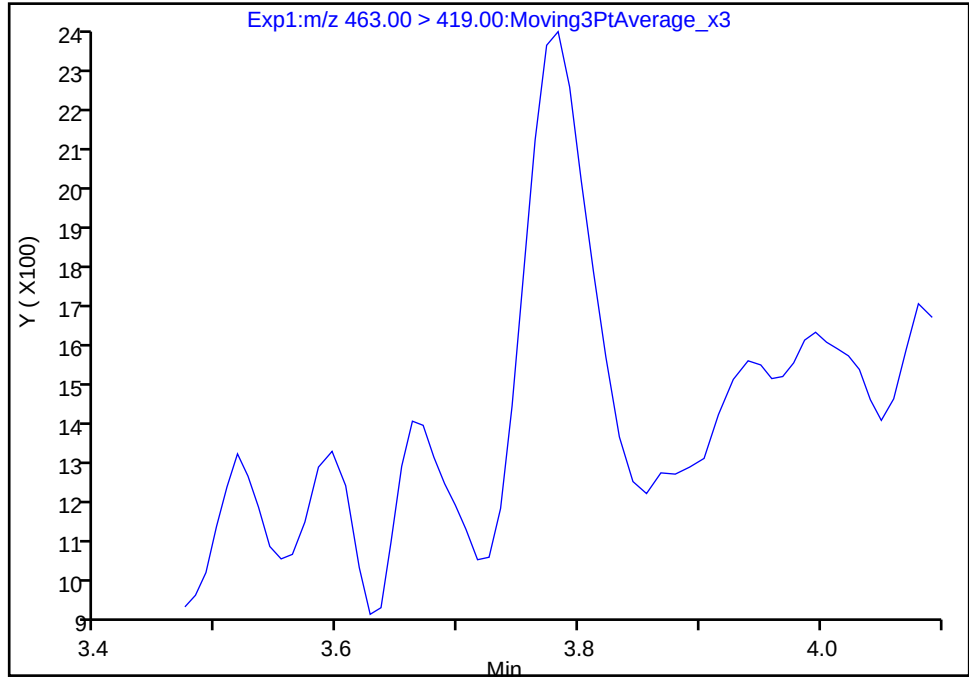
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

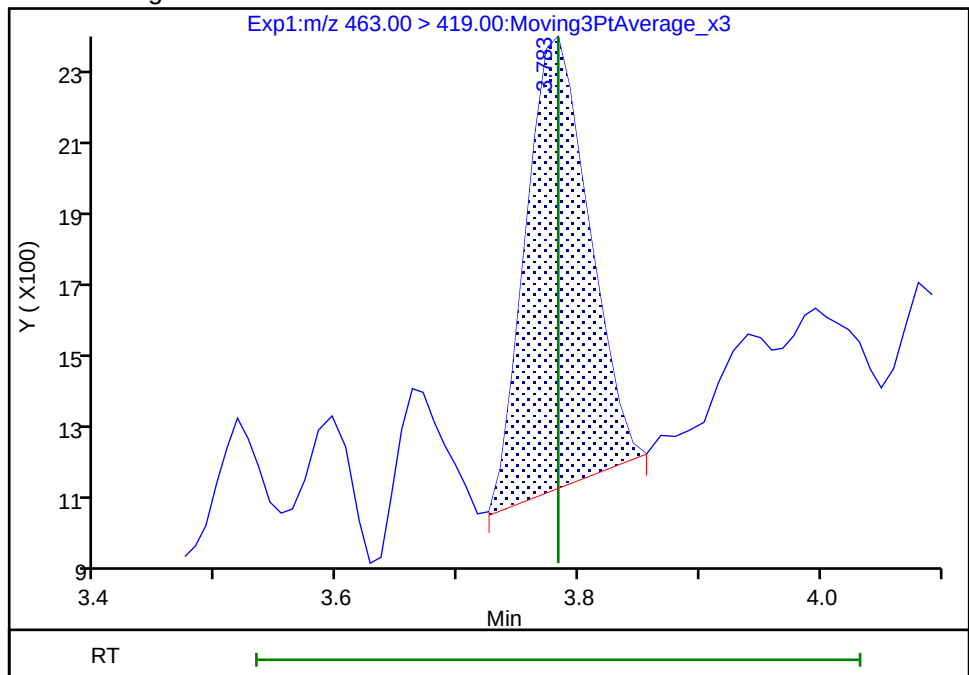
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 4415
Amount: 0.002181
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:23:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 951 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

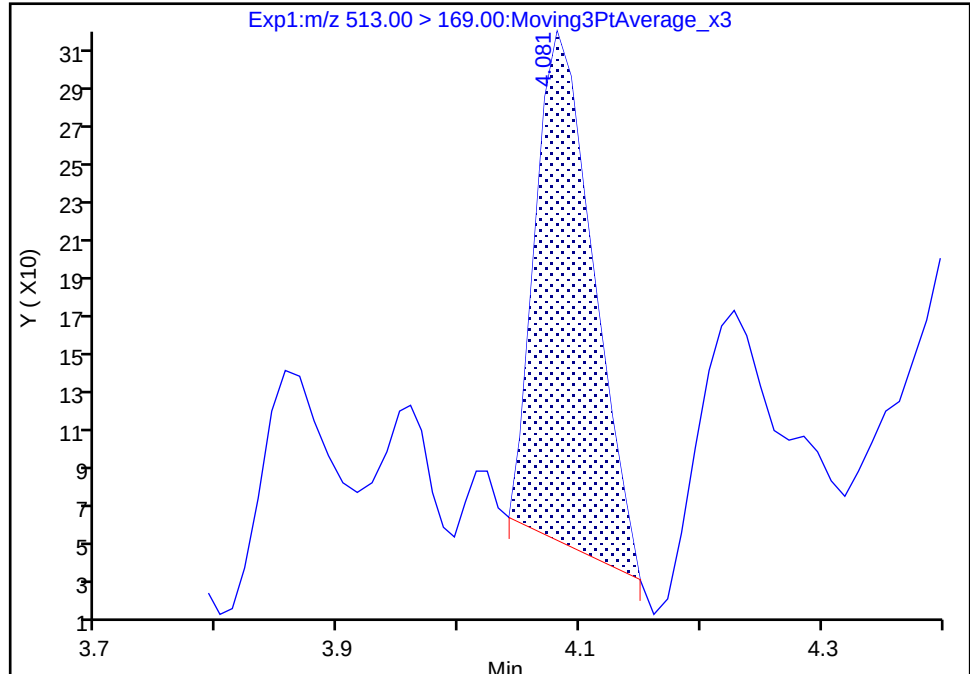
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

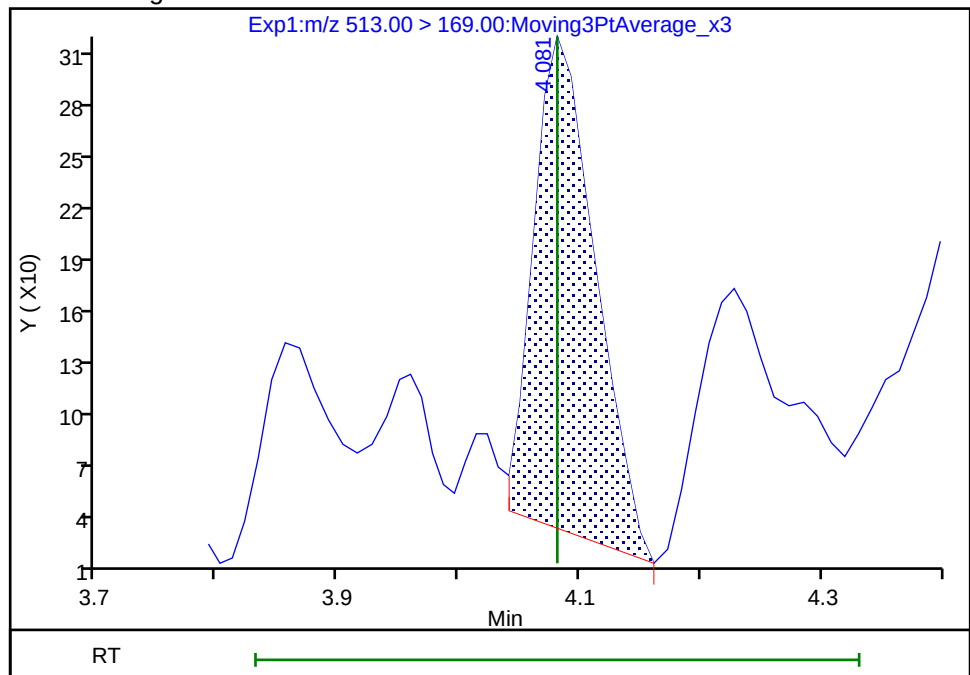
RT: 4.08
Area: 876
Amount: 0.002760
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 996
Amount: 0.002760
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:54

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

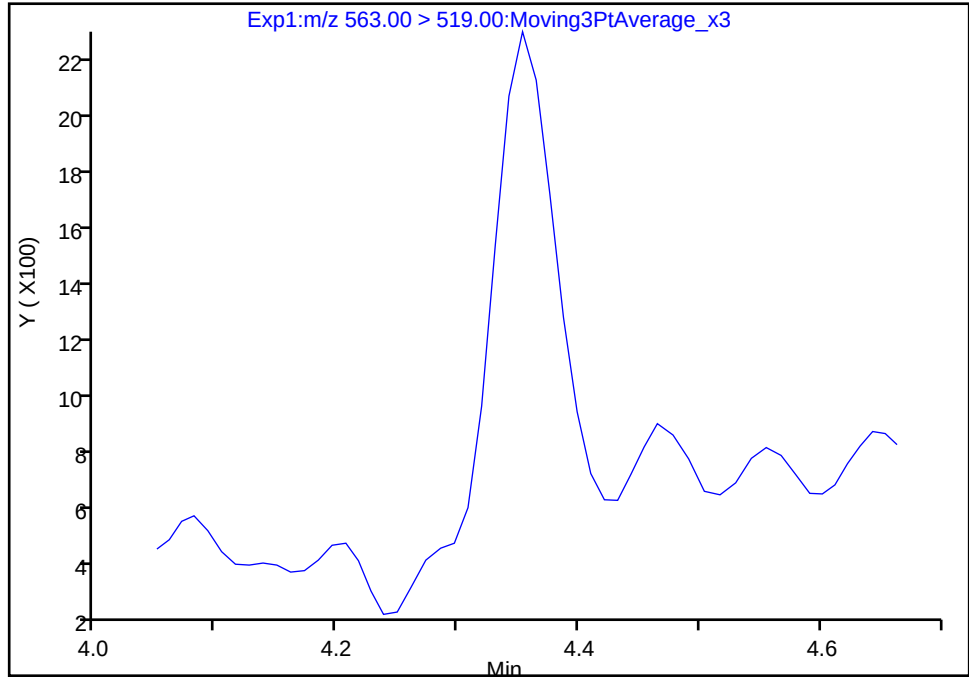
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

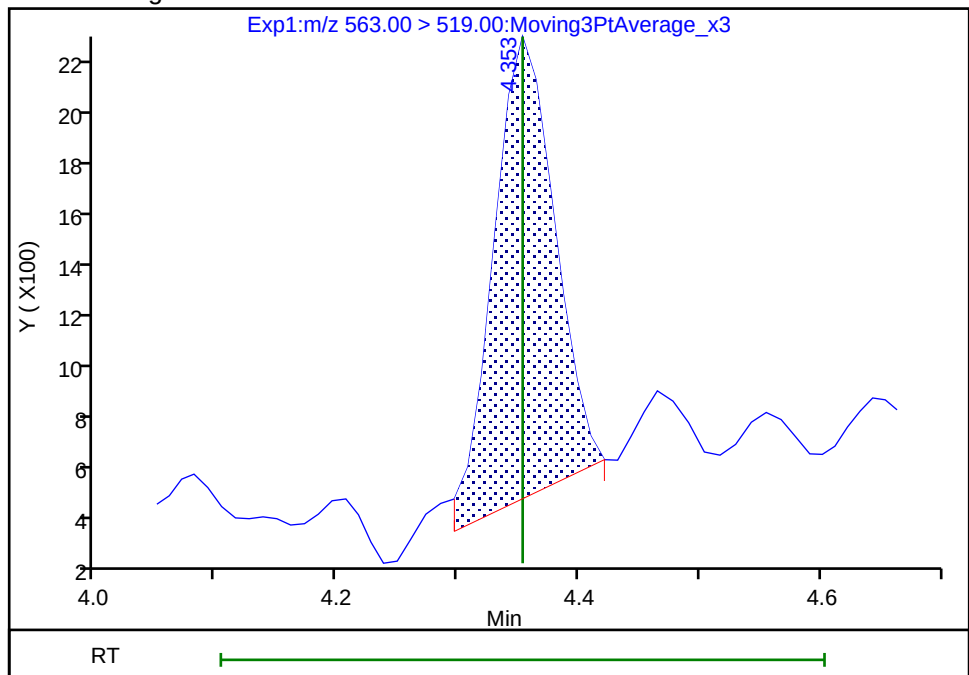
Signal: 1

Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results



RT: 4.35
Area: 6156
Amount: 0.003349
Amount Units: ng/ml

Reviewer: Z1IP, 21-Nov-2022 08:24:41
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

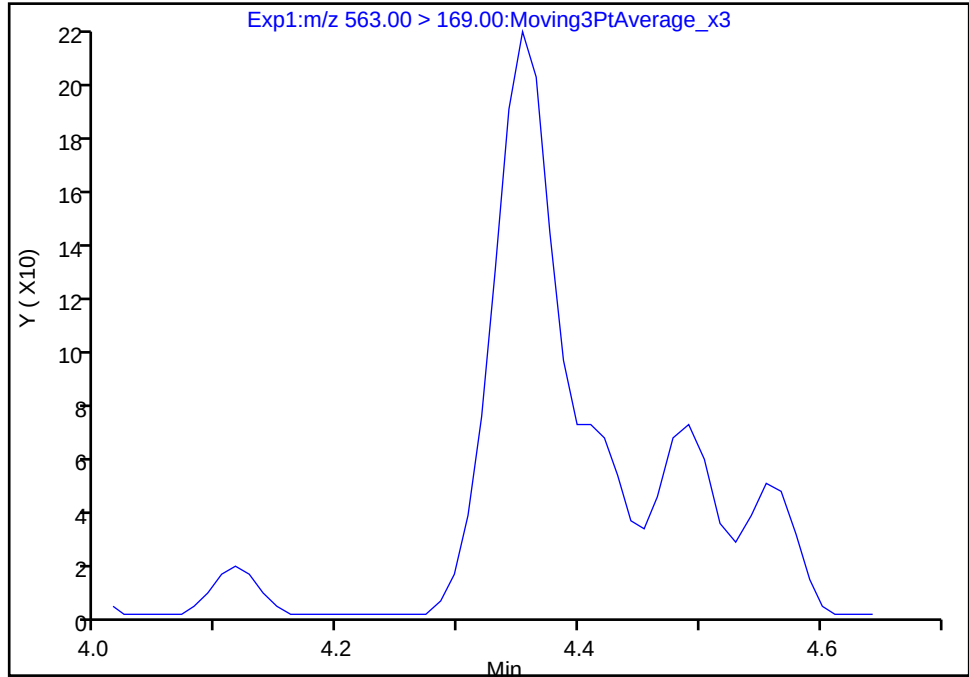
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

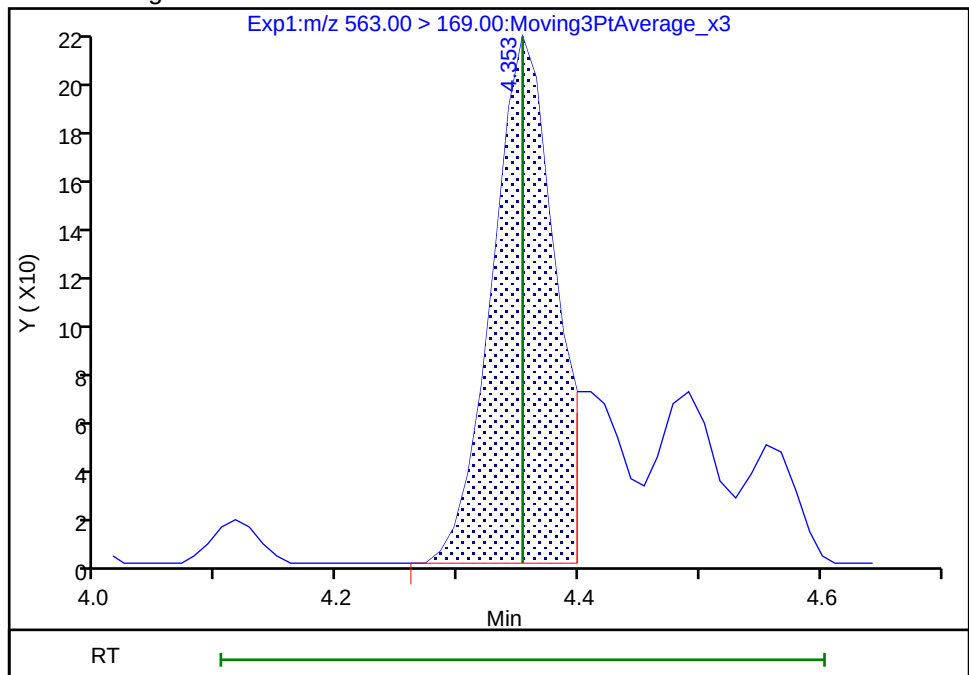
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 773
Amount: 0.003349
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:24:44

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 954 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

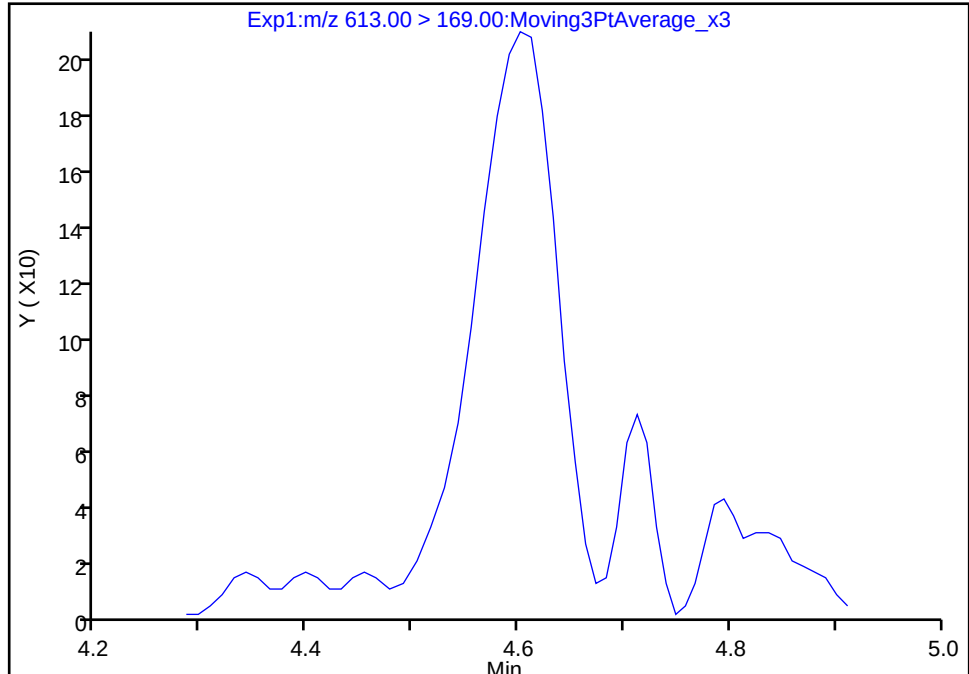
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

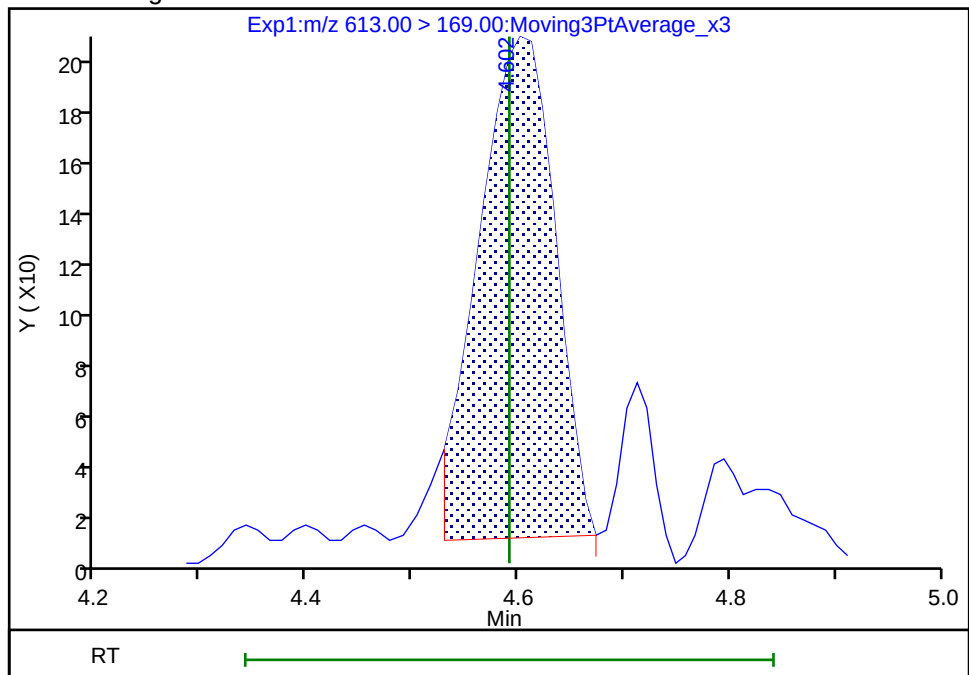
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 984
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:29
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

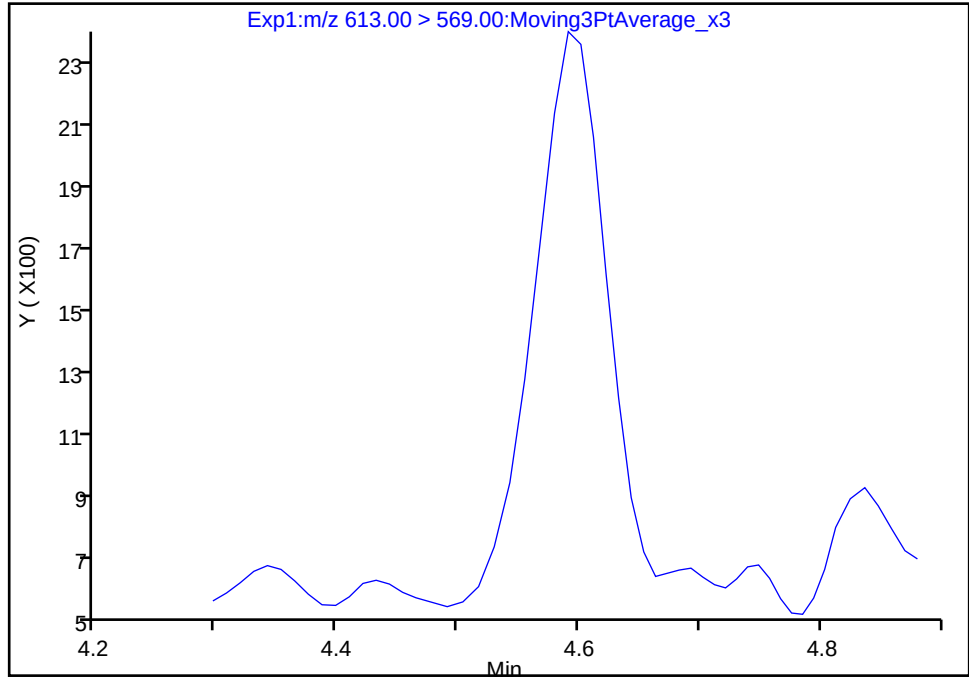
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

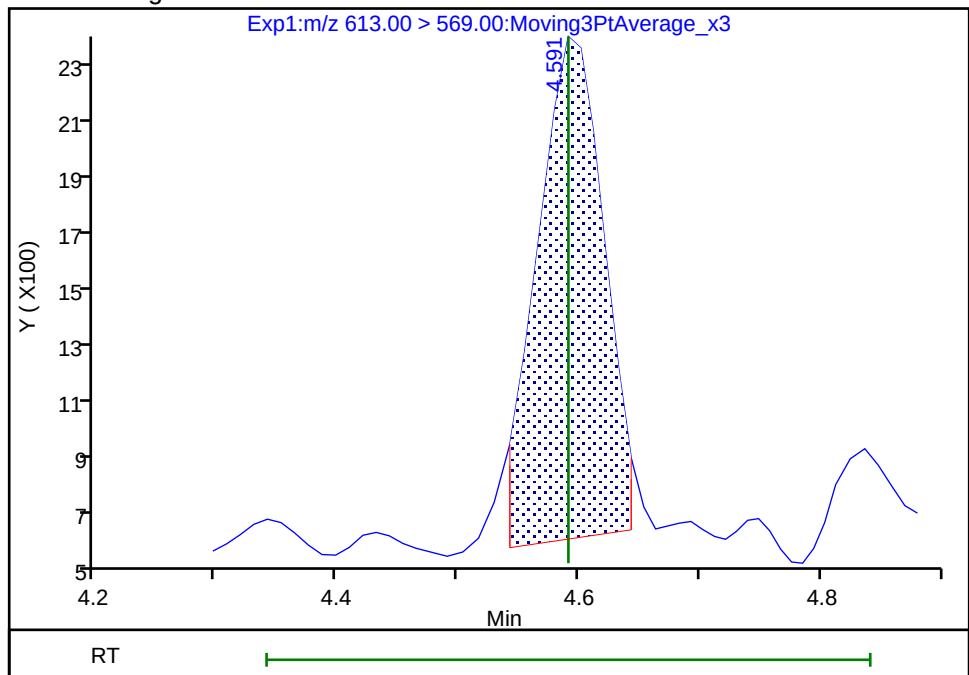
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 6630
Amount: 0.003355
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:25:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 956 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

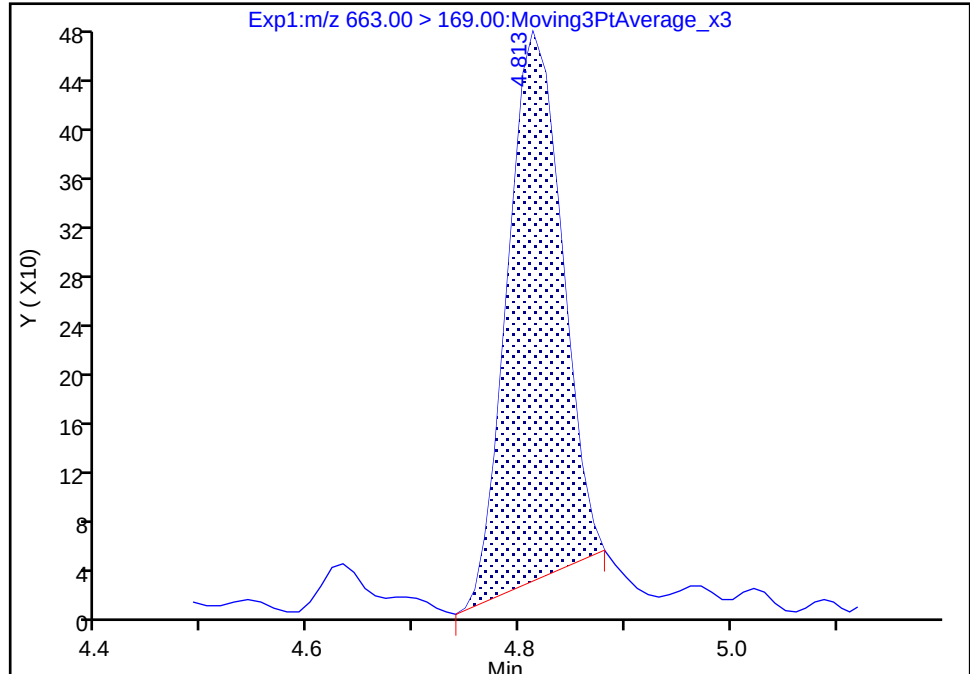
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

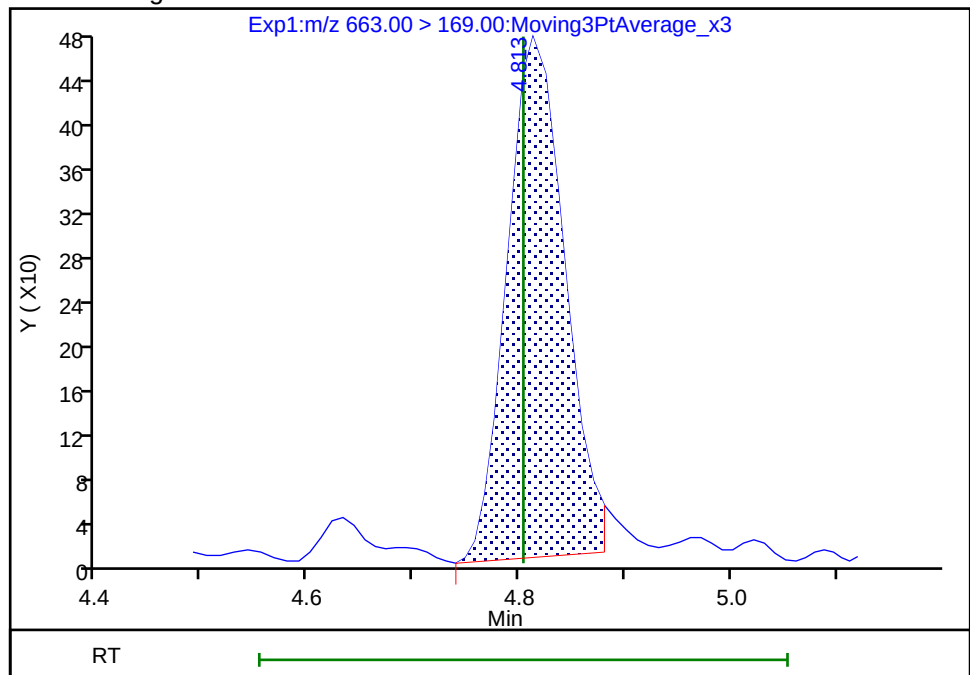
RT: 4.81
Area: 1591
Amount: 0.003827
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1768
Amount: 0.003827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

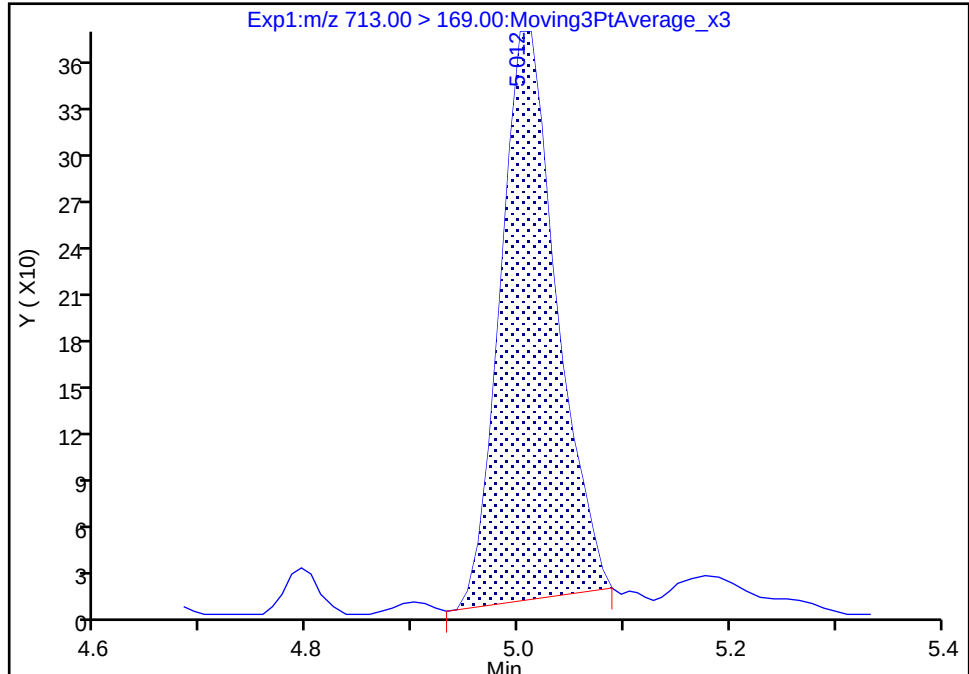
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

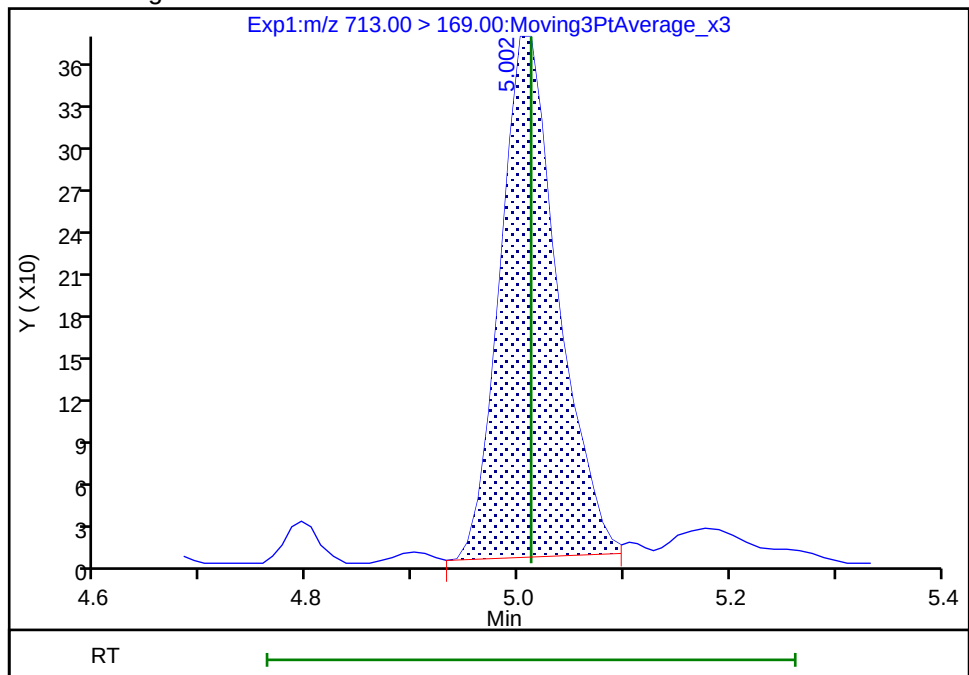
RT: 5.01
Area: 1356
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1409
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

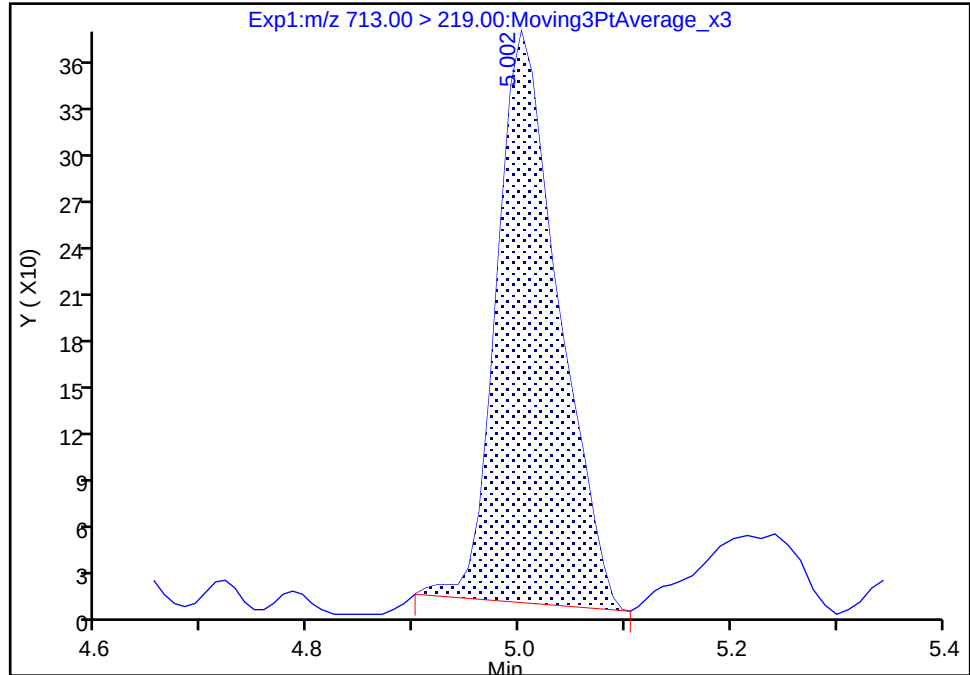
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

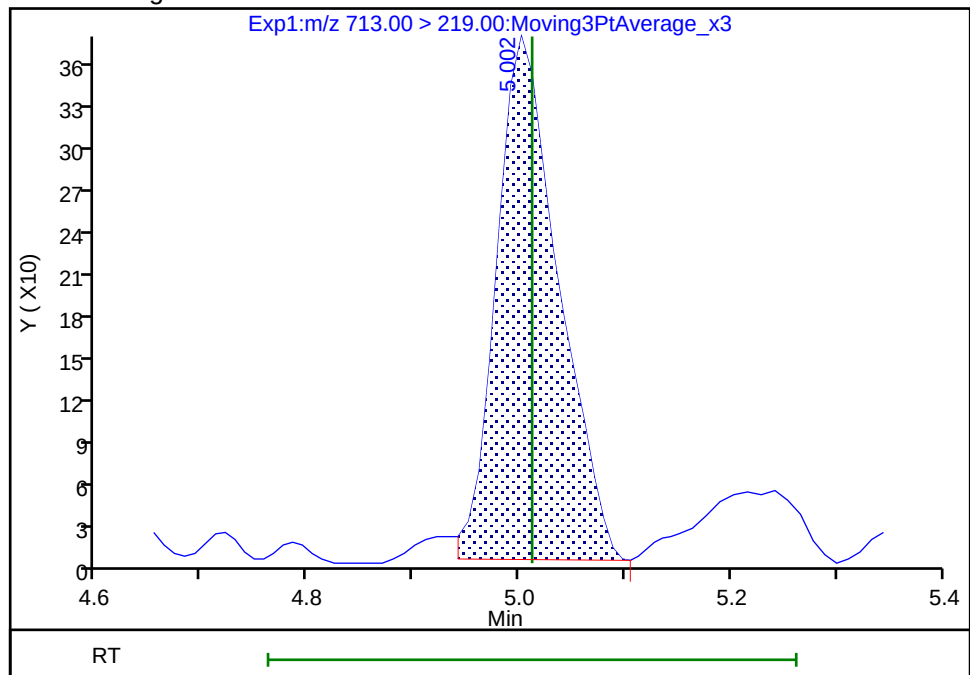
RT: 5.00
Area: 1502
Amount: 0.006171
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 1526
Amount: 0.006412
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 959 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

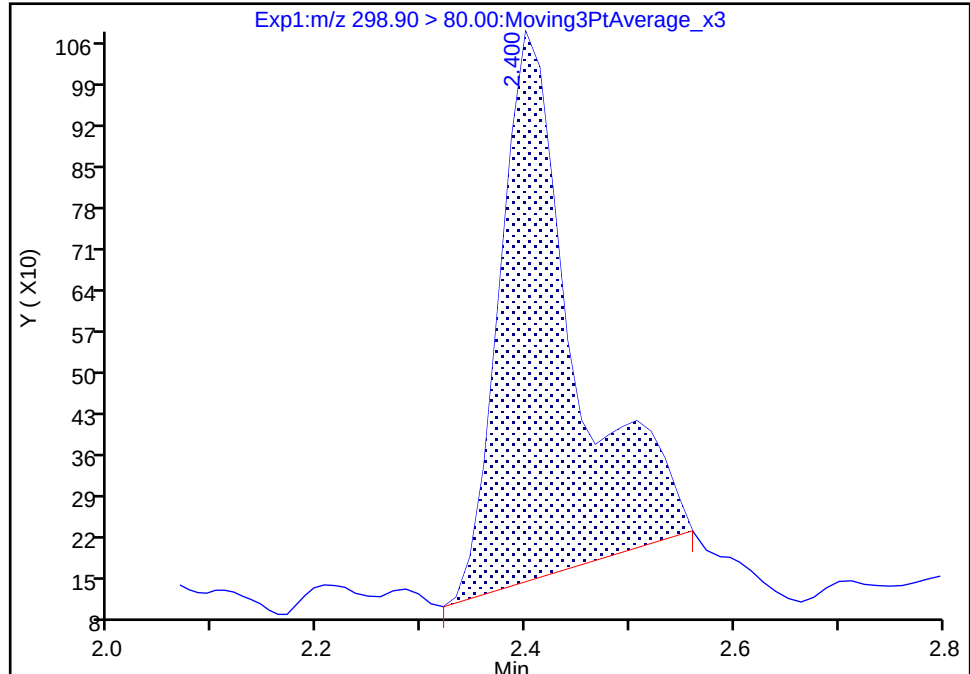
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

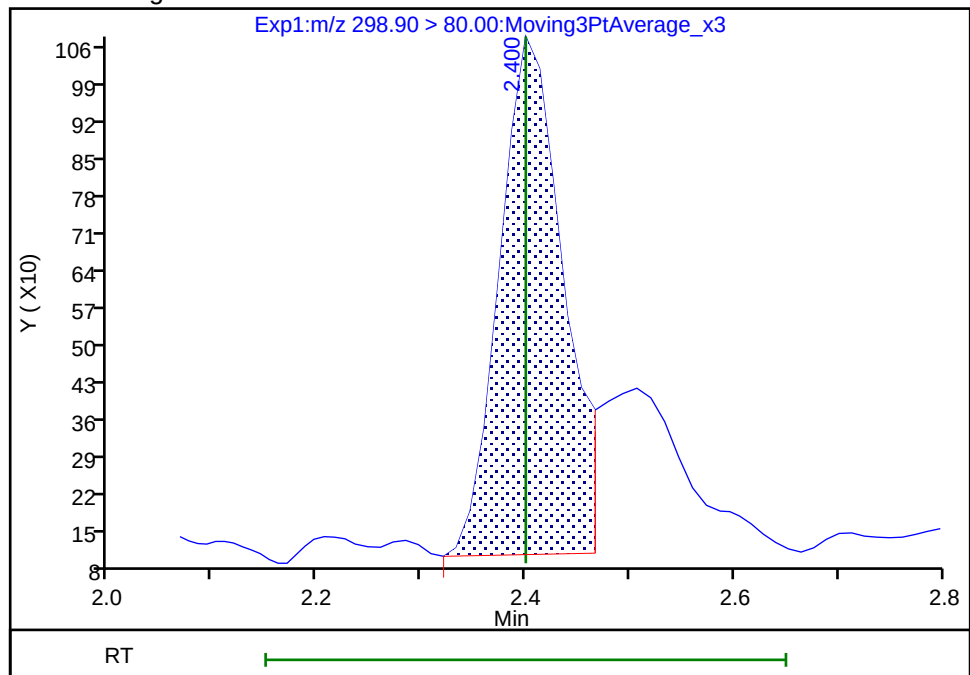
RT: 2.40
Area: 4687
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 4101
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

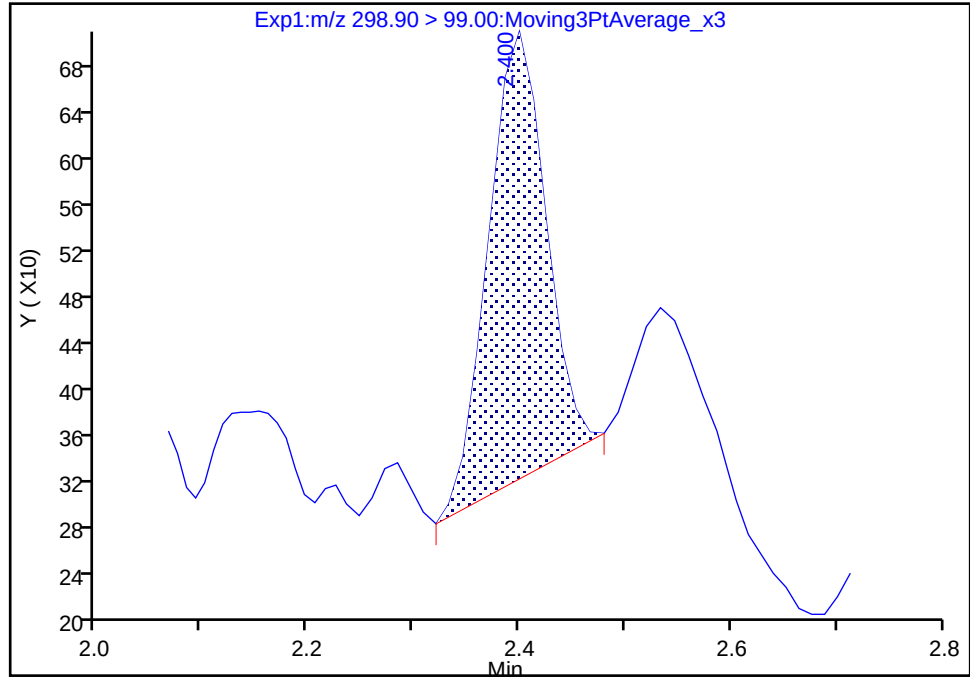
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

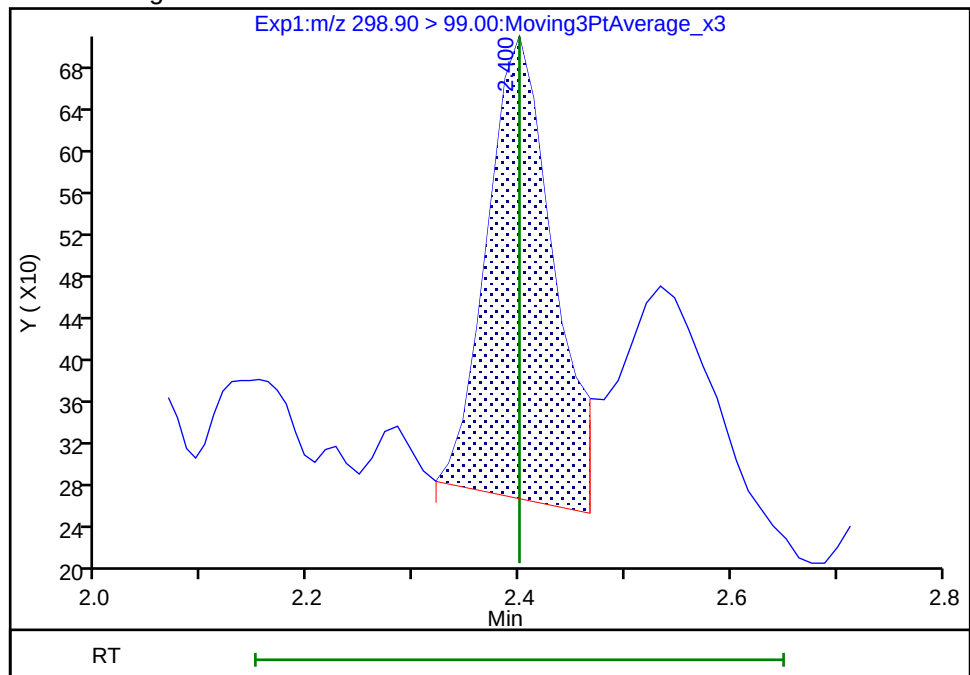
RT: 2.40
Area: 1438
Amount: 0.002285
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1875
Amount: 0.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 961 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

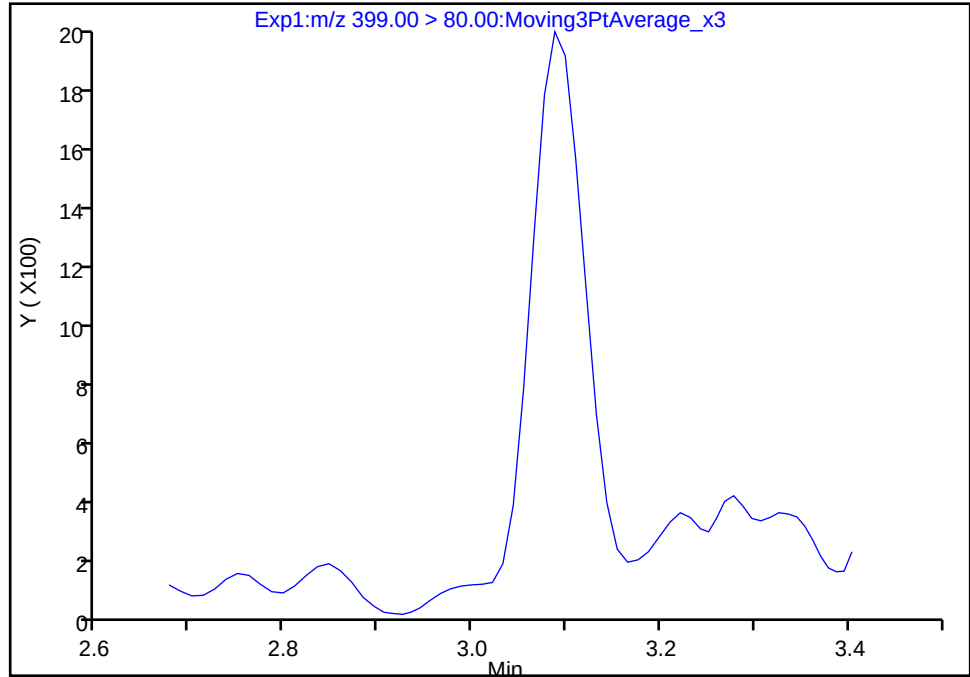
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

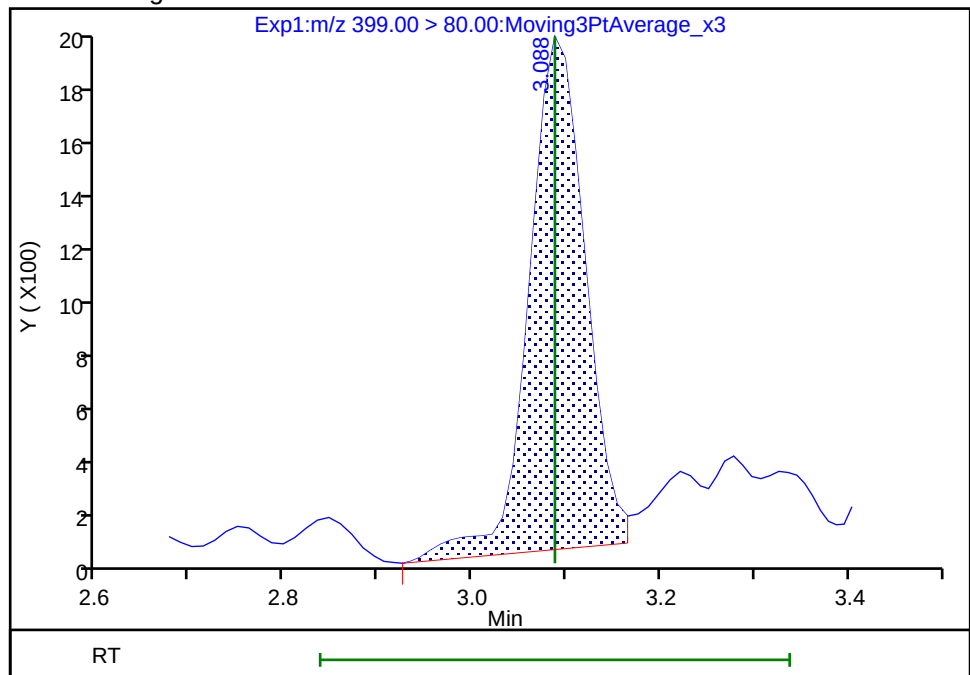
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 7928
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

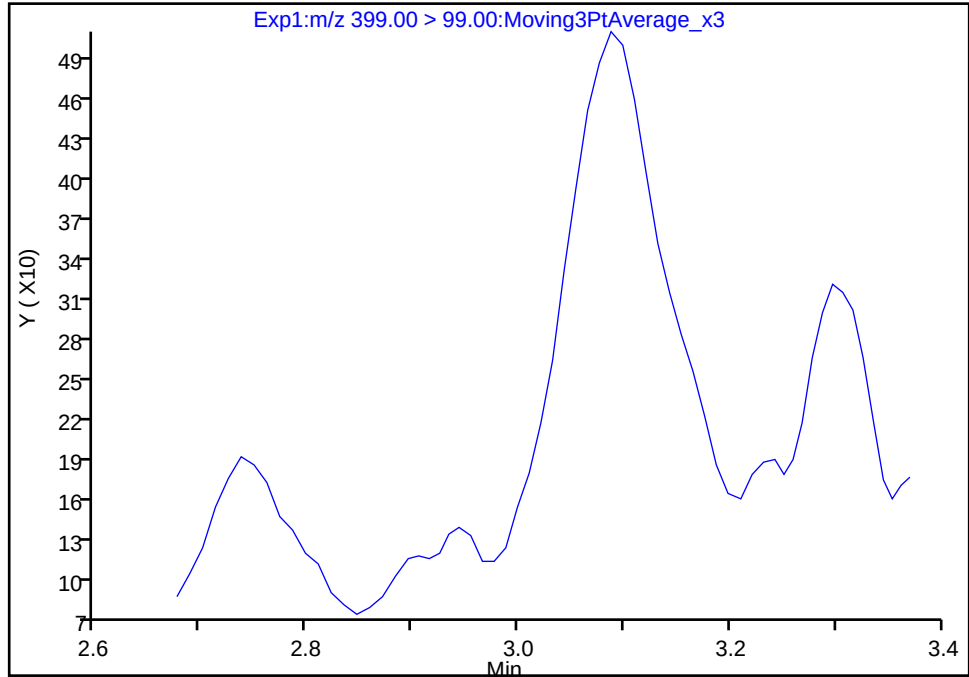
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

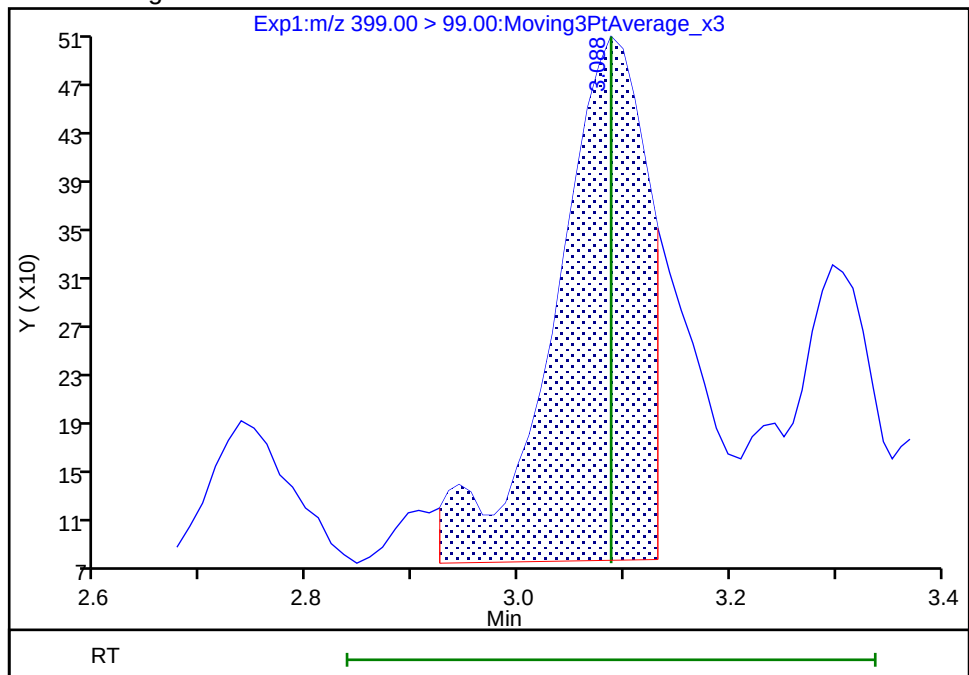
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2543
Amount: 0.005284
Amount Units: ng/ml



Reviewer: Z1IP, 21-Nov-2022 08:21:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Page 963 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

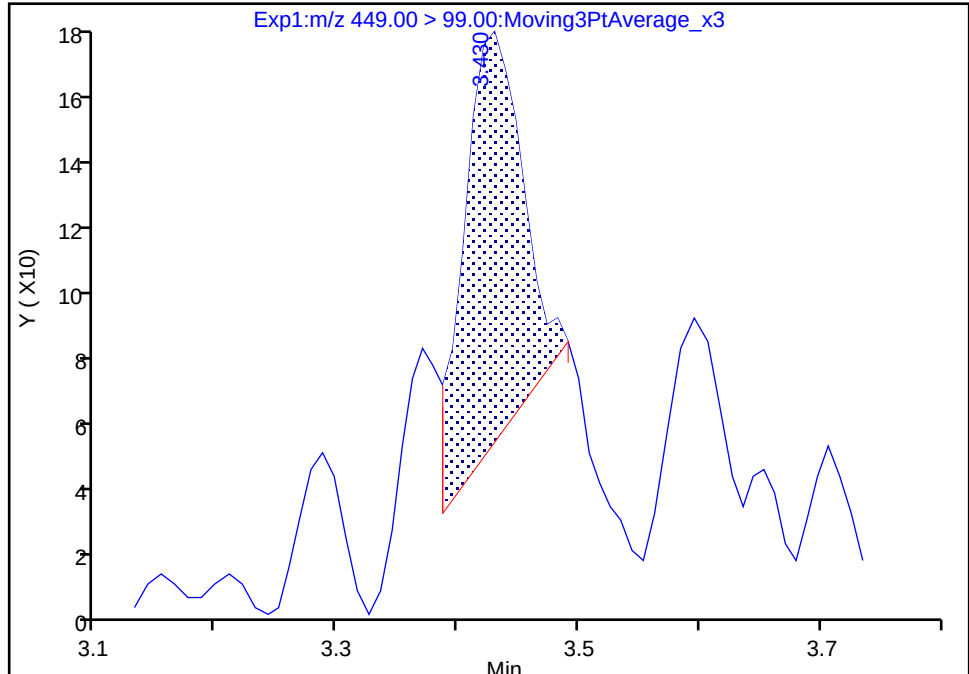
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

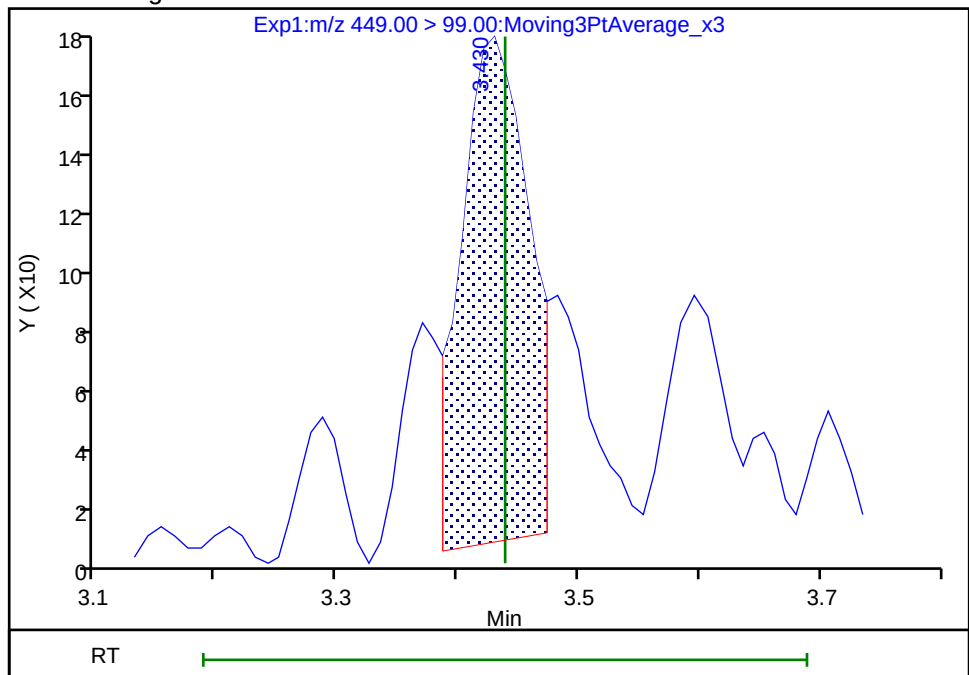
RT: 3.43
Area: 411
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 631
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

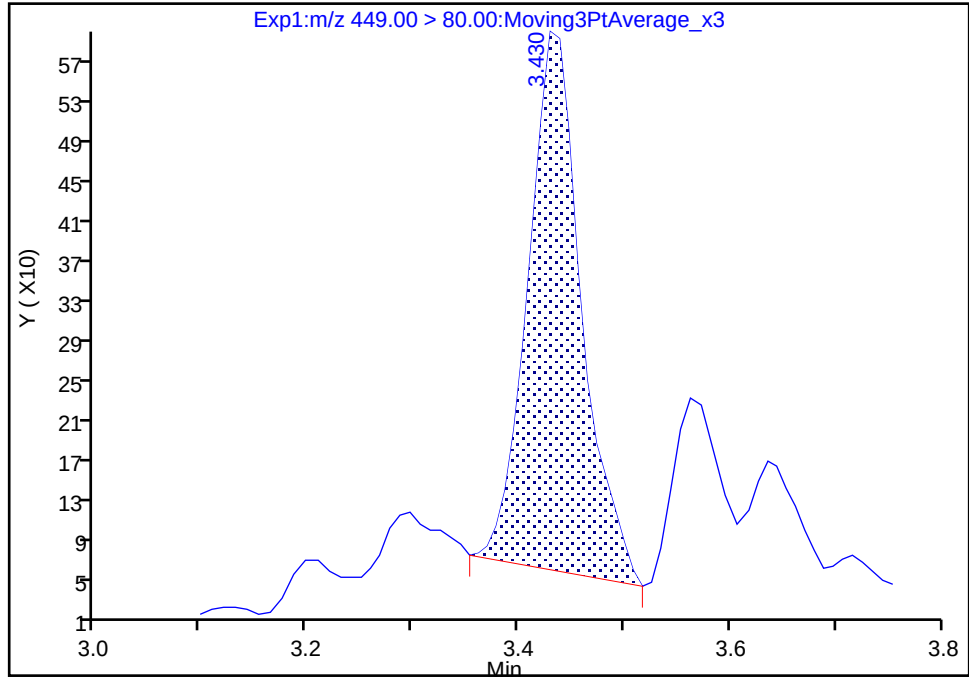
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

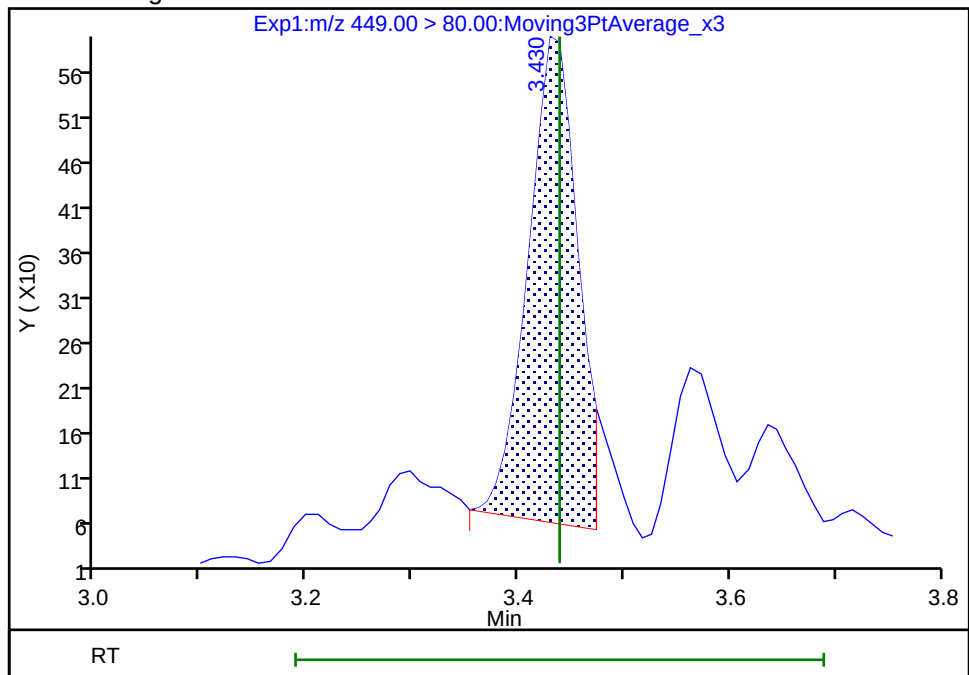
RT: 3.43
Area: 1891
Amount: 0.001467
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 1731
Amount: 0.001343
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:22:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 965 of 1142

1/9/2023 1:31 PM

Eurofins Burlington

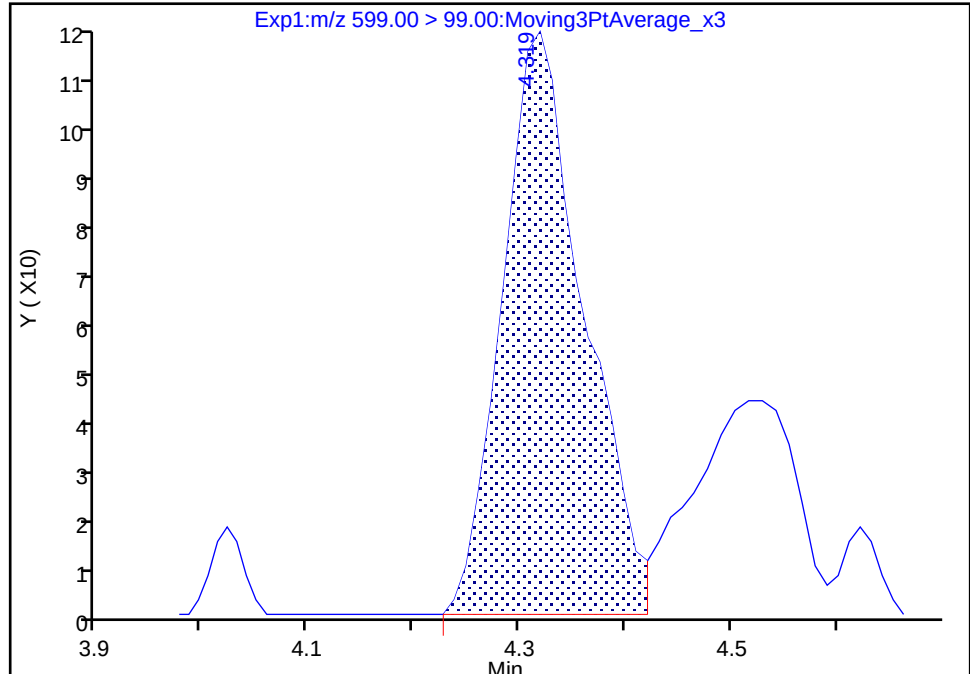
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

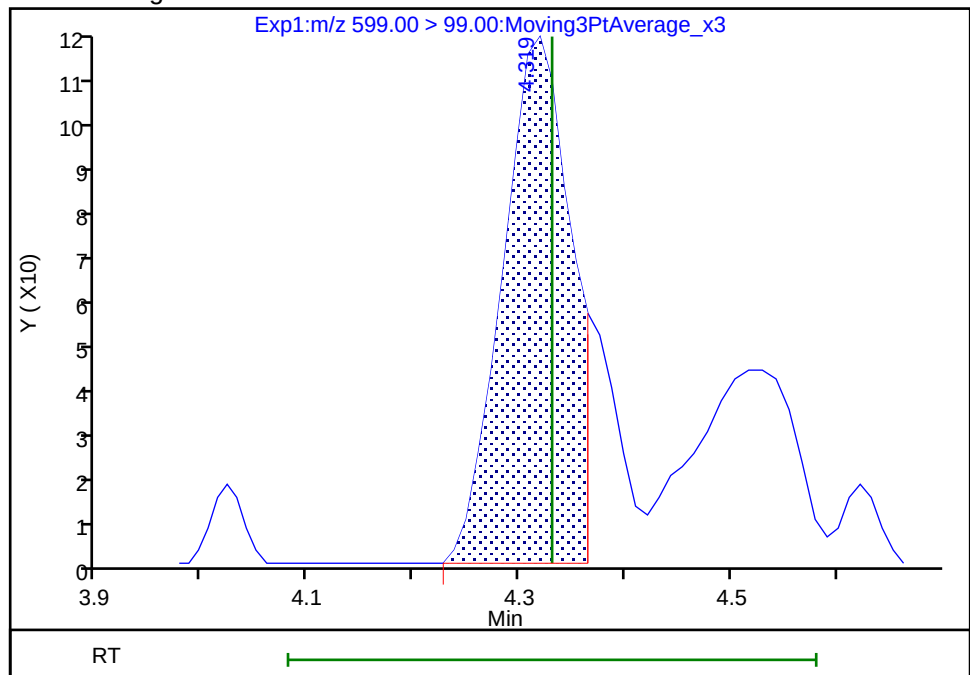
RT: 4.32
Area: 641
Amount: 0.002521
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 530
Amount: 0.002521
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

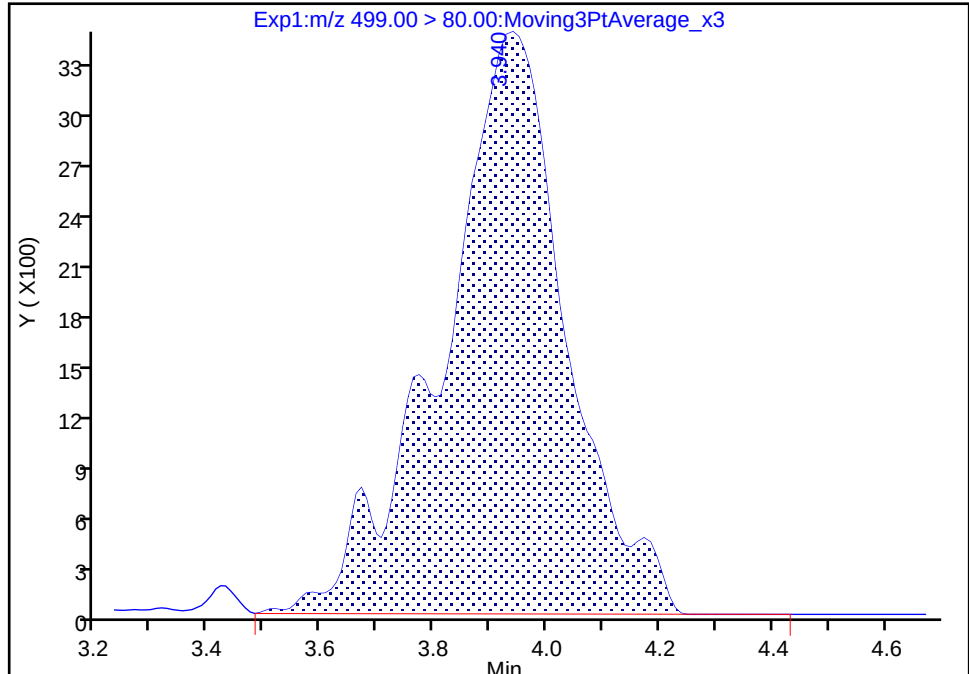
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

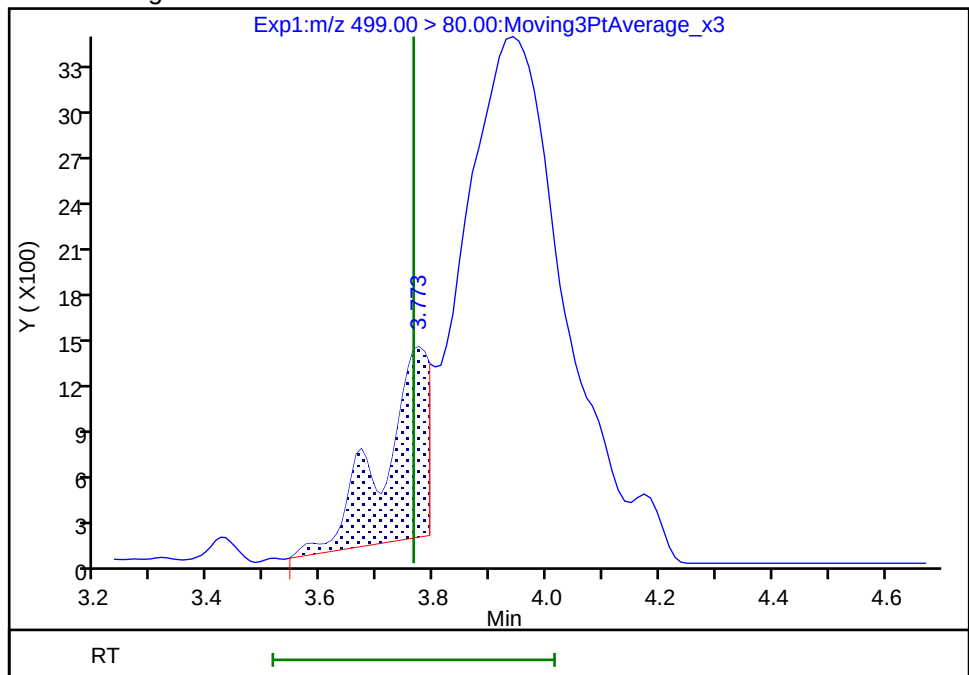
RT: 3.94
Area: 52204
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 6863
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

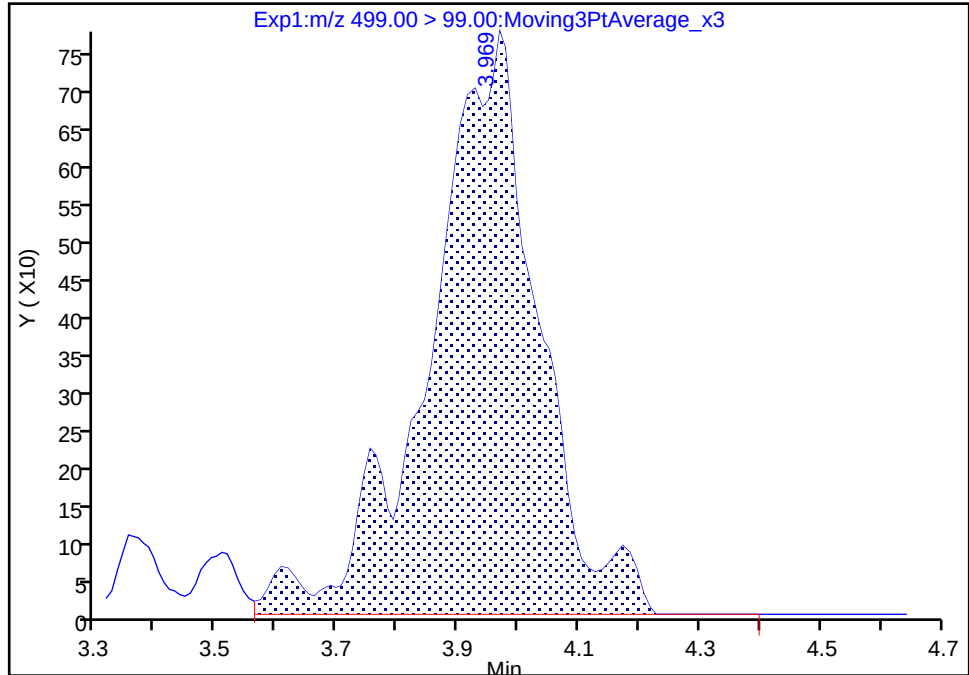
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

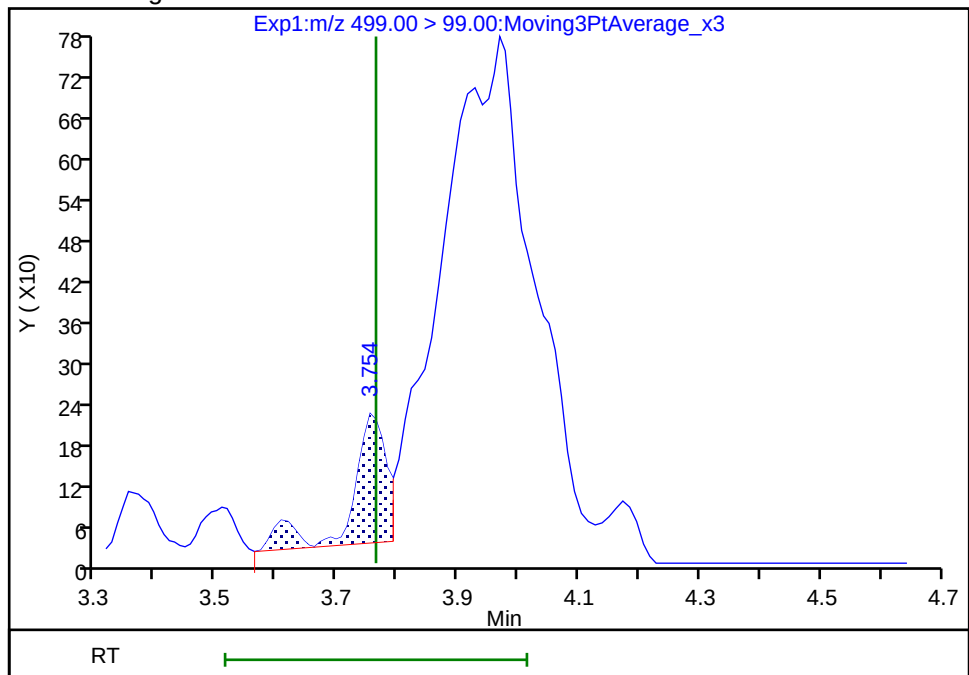
RT: 3.97
Area: 9705
Amount: 0.046510
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 740
Amount: 0.006115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:23:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 968 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

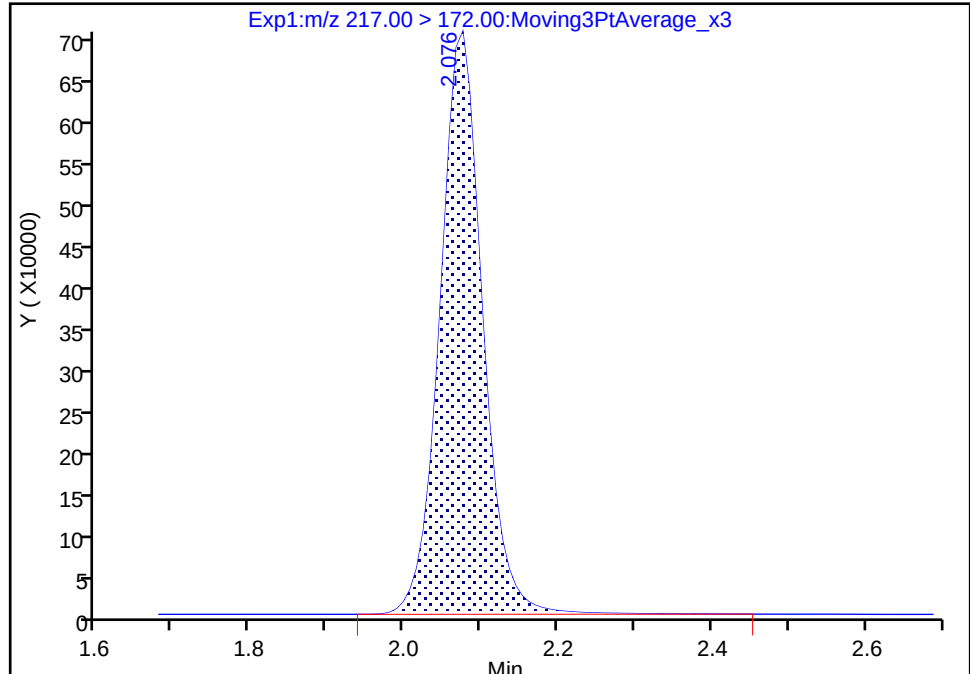
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

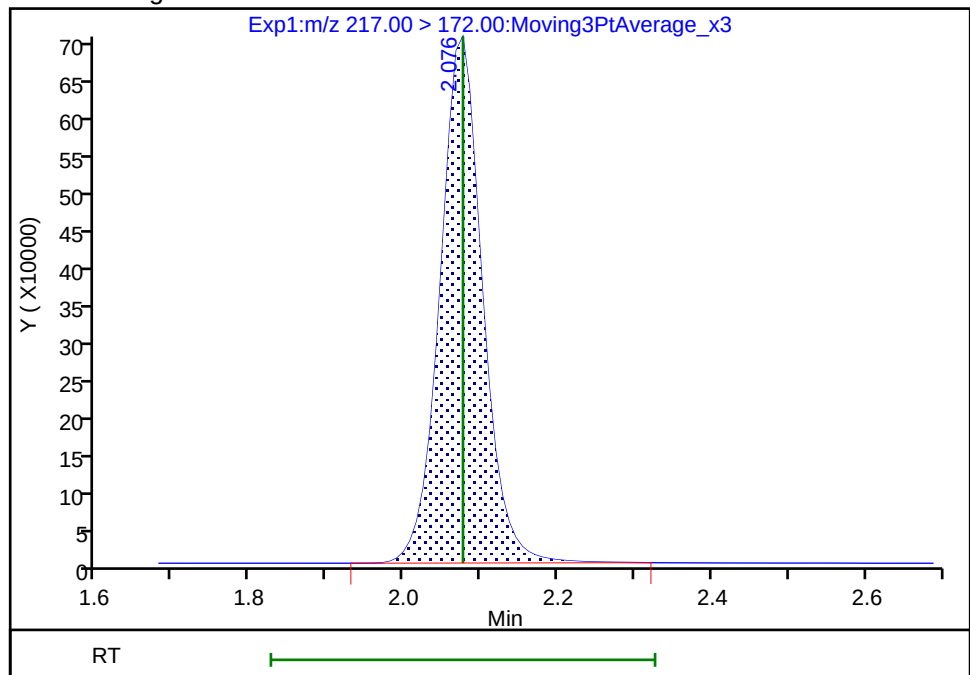
RT: 2.08
Area: 2698297
Amount: 1.324270
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2690789
Amount: 1.320585
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:20:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

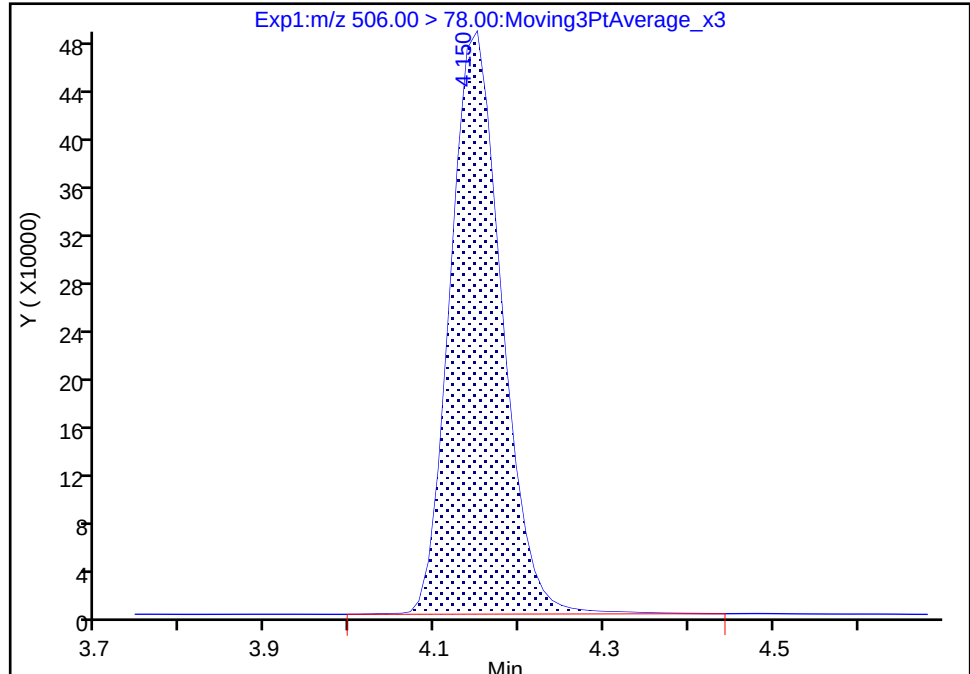
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

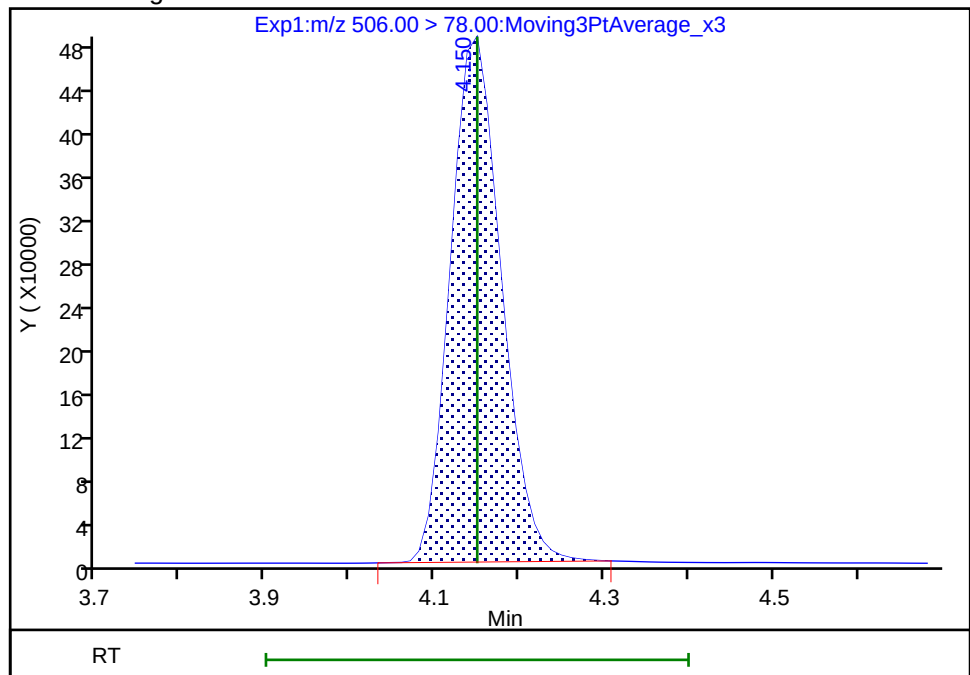
RT: 4.15
Area: 2062770
Amount: 1.351404
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2040818
Amount: 1.337023
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

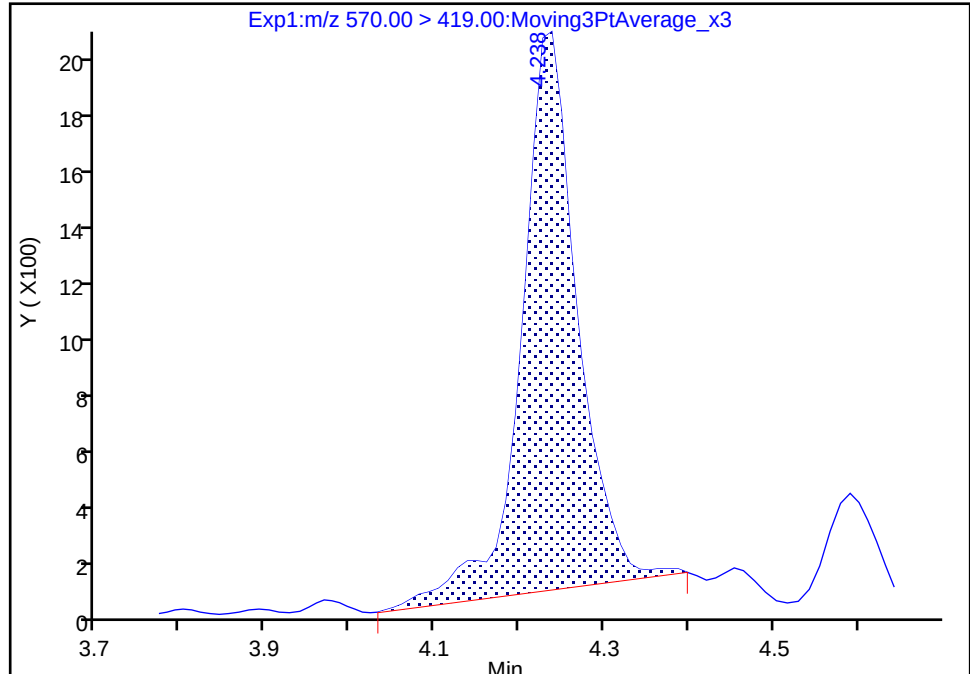
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

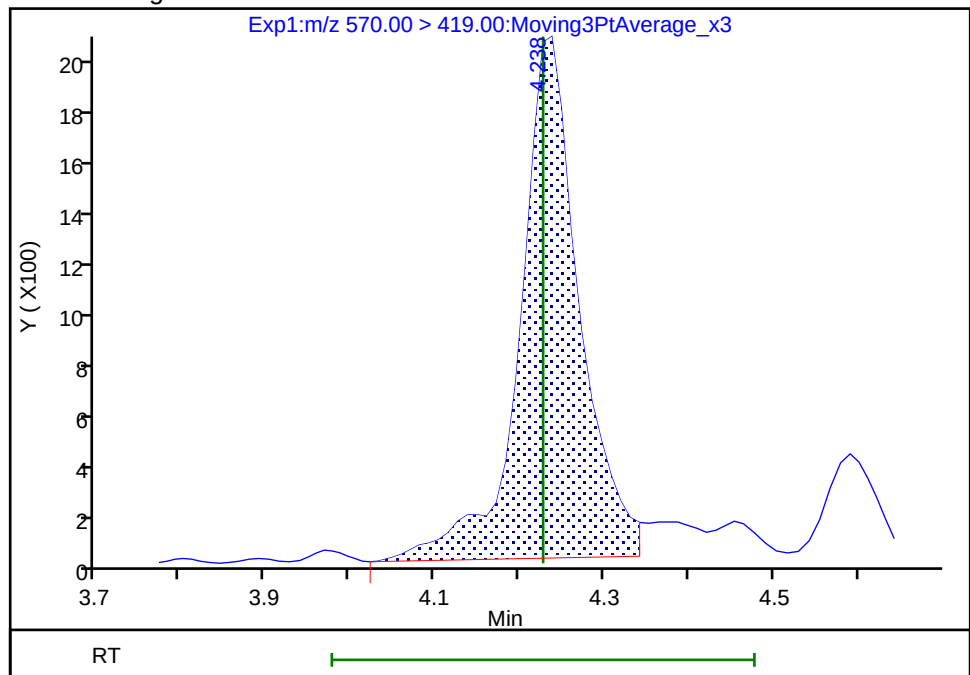
RT: 4.24
Area: 9316
Amount: 0.014803
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 10172
Amount: 0.017231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

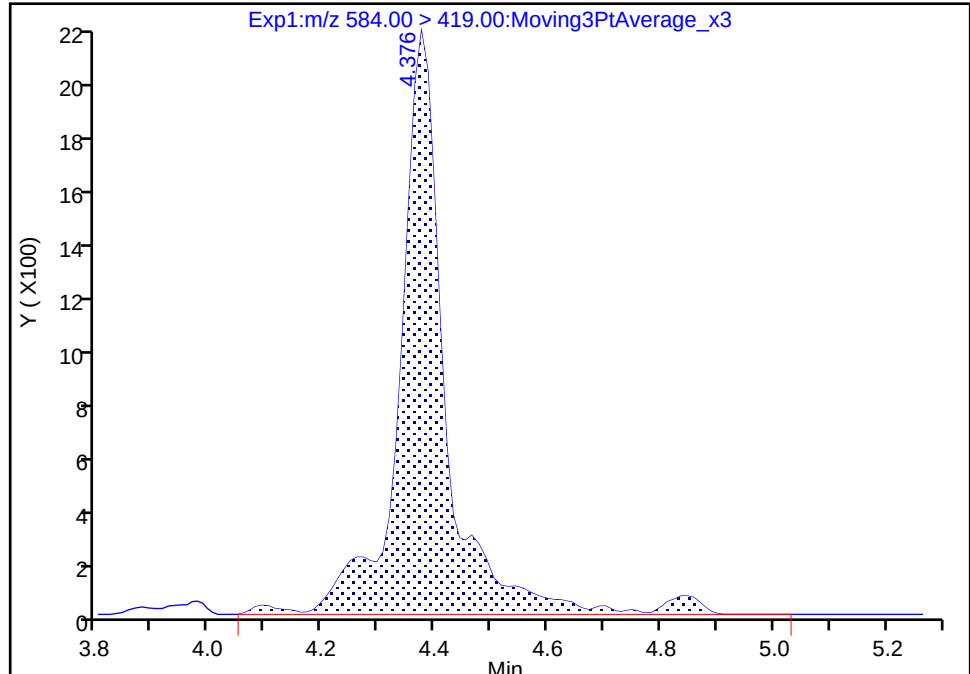
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

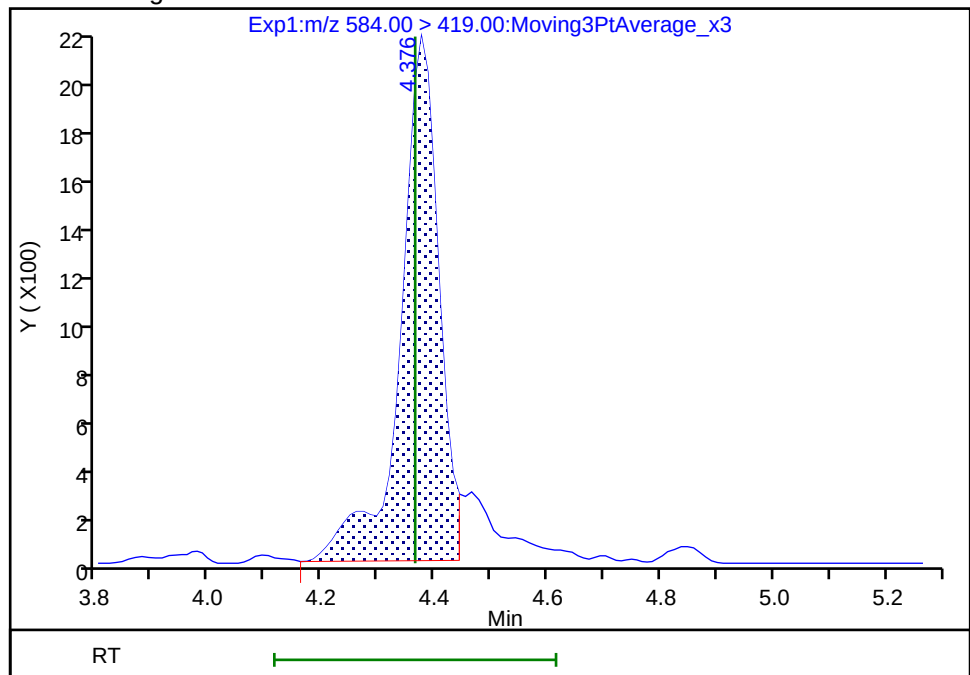
RT: 4.38
Area: 12637
Amount: 0.035132
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 10302
Amount: 0.028856
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:24:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

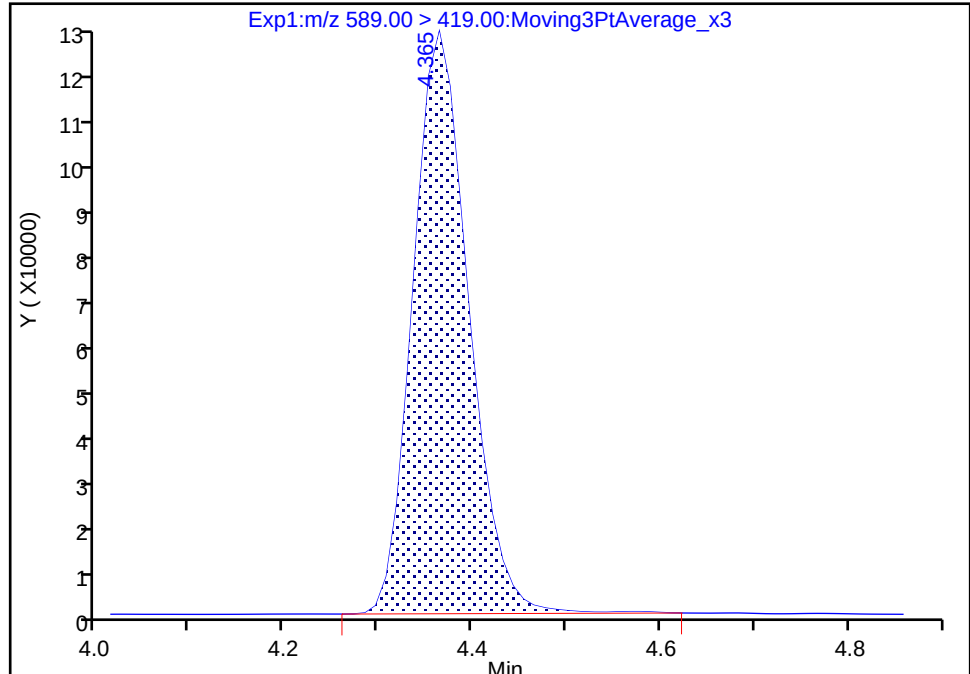
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

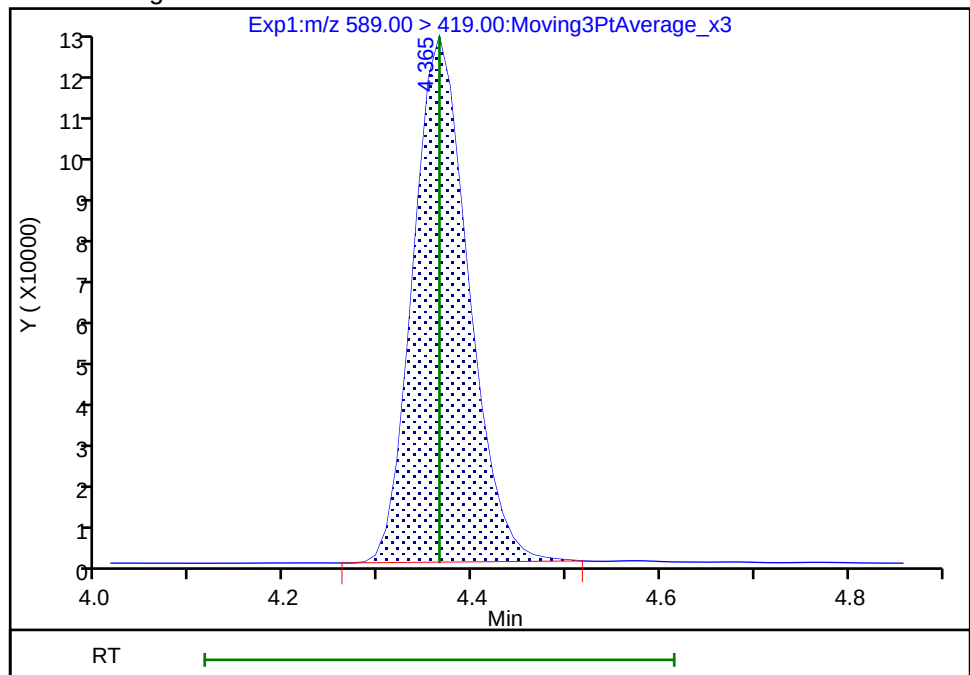
RT: 4.36
Area: 502236
Amount: 1.345514
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 498484
Amount: 1.335462
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:25:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

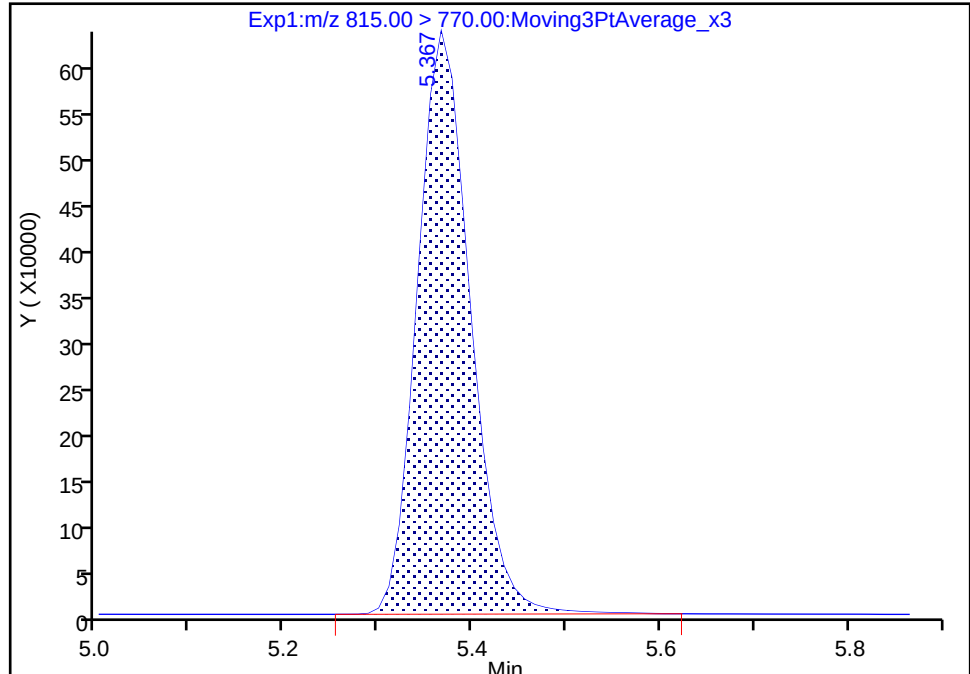
Data File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL11.d
Injection Date: 18-Nov-2022 15:18:56 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

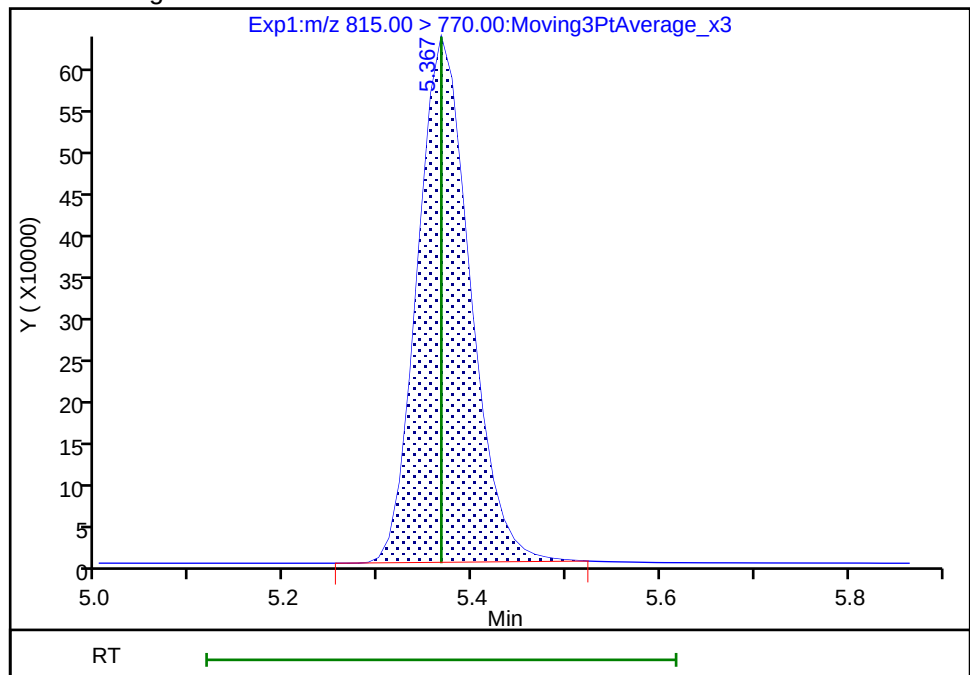
RT: 5.37
Area: 2475462
Amount: 1.332836
Amount Units: ng/ml

Processing Integration Results



RT: 5.37
Area: 2453441
Amount: 1.320980
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 21-Nov-2022 08:26:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 200-187080/2-A
Matrix: Solid Lab File ID: PA221230A07.d
Analysis Method: 537 (modified) Date Collected: _____
Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 13:34
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.881		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.904		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	1.775		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.937		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.858		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	1.918		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.824		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.014		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.846		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.990		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.847		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.566		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.697		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.842		0.20	0.023
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.582		0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.696		0.20	0.11
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.893		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.042		2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.848	J	2.00	0.083
27619-97-2	6:2 FTS	1.877	J	2.00	0.057
39108-34-4	8:2 FTS	1.864	J	2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187080/2-A
 Matrix: Solid Lab File ID: PA221230A07.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 13:34
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	88		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	77		50-150
STL00993	13C2 PFHxA	86		50-150
STL00996	13C2 PFDA	97		50-150
STL00997	13C2 PFUnA	82		50-150
STL00994	18O2 PFHxS	88		50-150
STL00998	13C2 PFDoA	79		50-150
STL00991	13C4 PFOS	87		50-150
STL01056	13C8 FOSA	69		50-150
STL01893	13C5 PFPeA	77		50-150
STL02116	13C2 PFTeDA	90		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	78		50-150
STL02279	M2-6:2 FTS	103		50-150
STL02337	13C3 PFBS	84		50-150
STL02280	M2-8:2 FTS	95		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d
 Lims ID: LCS 200-187080/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Dec-2022 13:34:02 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187080/2-A
 Misc. Info.: 200-0053865-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 08:59:04

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	2.076	2.076	0.0	0.602	2476031	0.9563		76.5	13614	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.076	0.009	1.004	1920913	0.9404		94.0	156	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.692	1899745	0.9634		77.1	3034	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	1576995	0.9521		95.2	37.5	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.696	2090387	0.9757		83.9	153515	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1610872	0.7830	Target=2.09	88.6	1580	
298.90 > 99.00	2.400	2.400	0.0	1.000	787237		2.05(1.04-3.13)		311	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	468811	0.8591		92.0	2611	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	206788	1.09		93.6	185	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2232395	1.08		86.4	8563	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	1727180	0.8876	Target=14.25	88.8	277	M
313.00 > 119.00	2.725	2.725	0.0	1.000	130497		13.24(7.12-21.37)		228	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.737	0.0	0.887	1562863	0.8539	Target=3.04	91.0	1244	
349.00 > 99.00	2.725	2.737	-0.012	0.883	541654		2.89(1.52-4.56)		890	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.835	2.835	0.0	1.000	315049	0.9270		92.7	1382	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.835	0.0	0.823	402321	1.10		88.3	2001	
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1620732	1.04		87.8	2676	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.087	3.088	-0.001	1.000	1312563	0.8485	Target=3.66	93.2	1062	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	388751		3.38(1.83-5.49)		467	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.087	3.099	-0.012	0.896	2318713	1.09		87.3	3172	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.098	3.099	-0.001	1.004	1956257	0.9686	Target=3.97	96.9	377	
363.00 > 169.00	3.098	3.099	-0.001	1.004	496236		3.94(1.98-5.95)		991	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.832	4495789	0.8855	Target=3.16	94.0	3597	
377.00 > 85.00	3.132	3.132	0.0	0.832	1424003		3.16(1.58-4.73)		1810	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.439	-0.001	0.997	321318	1.23		103	722	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.439	-0.001	1.000	543211	0.9385		99.0	722	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.438	3.439	-0.001	0.914	1186259	0.9212	Target=5.14	96.8	2954	M
449.00 > 99.00	3.438	3.439	-0.001	0.914	239007		4.96(2.57-7.72)		712	M
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.448	-0.002	1.000	2617635	1.10		87.7	4695	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.448	-0.002		2885291	1.25			5071	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.446	3.448	-0.002	1.000	2080236	0.9292	Target=2.79	92.9	139	
413.00 > 169.00	3.446	3.448	-0.002	1.000	765393		2.72(1.40-4.19)		991	
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.764	-0.001	1.092	1101695	1.04		87.1	3061	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.763	3.764	-0.001	1.000	950959	0.8482	Target=5.11	91.4	829	M
499.00 > 99.00	3.763	3.764	-0.001	1.000	209646		4.54(2.55-7.66)		660	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.782	3.783	-0.001	1.000	2066854	0.9592	Target=8.55	95.9	453	
463.00 > 169.00	3.782	3.783	-0.001	1.000	240475		8.59(4.28-12.83)		2212	
D 19 13C5 PFNA										
468.00 > 423.00	3.782	3.783	-0.001	1.097	2596497	1.12		89.5	3264	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	2316338	0.9002		96.6	3482	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.050	0.0	1.076	736191	0.8700	Target=2.53	90.6	3702	
549.00 > 99.00	4.050	4.050	0.0	1.076	300386		2.45(1.27-3.80)		1413	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.081	0.0	1.184	2860579	1.21		96.7	3741	

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	4.081	4.081	0.0	1.000	2263471	0.9120	Target=10.26	91.2	658	
513.00 > 169.00	4.081	4.081	0.0	1.000	221789		10.21(5.13-15.38)		444	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.184	365976	1.14		95.5	1047	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.003	460619	0.9321		97.3	4590	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.150	0.0	1.000	1319165	0.9465		94.6	1297	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.150	0.0	1.204	1667577	0.8598		68.8	3365	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	469992	0.9757		78.1	650	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.228	0.0	1.000	334020	1.02		102	652	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.319	4.331	-0.012	1.148	528591	0.7911	Target=2.51	82.1	3040	
599.00 > 99.00	4.319	4.331	-0.012	1.148	207067		2.55(1.25-3.76)		1833	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.353	0.0	1.263	2231805	1.03		82.4	2917	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.353	0.0	1.000	1811706	1.01	Target=9.88	101	810	
563.00 > 169.00	4.342	4.353	-0.011	0.997	170839		10.60(4.94-14.82)		1274	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.364	4.365	-0.001	1.003	305119	0.9240		92.4	731	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.365	-0.012	1.263	461059	0.9721		77.8	1191	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.443	4.454	-0.011	1.181	3155156	0.7954		84.4	5859	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.002	1695779	0.9229	Target=7.77	92.3	136	
613.00 > 169.00	4.580	4.591	-0.011	1.000	226489		7.49(3.89-11.66)		1493	
D 36 13C2 PFDaA										
615.00 > 570.00	4.580	4.591	-0.011	1.329	2167785	0.9822		78.6	4341	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.612	-0.011	1.128	247745	0.8343		86.5	1164	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.758	4.776	-0.018	1.265	239203	0.8461	Target=0.50	87.4	1685	
699.00 > 99.00	4.758	4.776	-0.018	1.265	447118		0.53(0.25-0.76)		3605	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.794	4.804	-0.010	1.047	1747963	0.99	Target=5.21	99.5	143	
663.00 > 169.00	4.794	4.804	-0.010	1.047	313801		5.57(2.60-7.81)		1154	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.992	5.012	-0.020	1.000	218230	0.9237	Target=0.89	92.4	853	
713.00 > 219.00	4.992	5.012	-0.020	1.000	234504		0.93(0.44-1.33)		1094	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.992	5.012	-0.020	1.448	2157215	1.13		90.4	3554	

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	5.344	5.367	-0.023	1.000	2054990	0.9665	Target=5.65	96.7	197	
813.00 > 169.00	5.344	5.367	-0.023	1.000	335349		6.13(2.82-8.47)		1519	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.344	5.367	-0.023	1.551	2840158	1.20		96.3	3606	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.722	-0.036	1.064	1794654	0.9590	Target=6.24	95.9	159	
913.00 > 169.00	5.686	5.722	-0.036	1.064	257865		6.96(3.12-9.36)		786	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

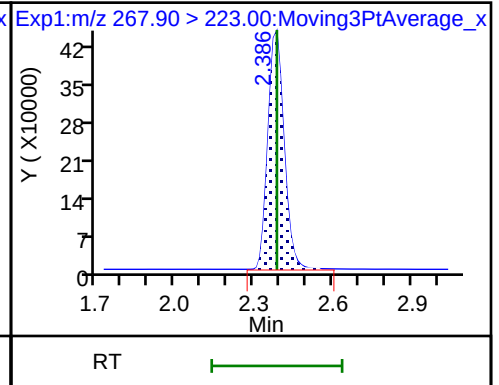
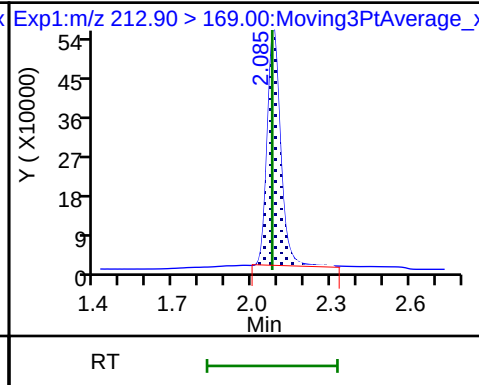
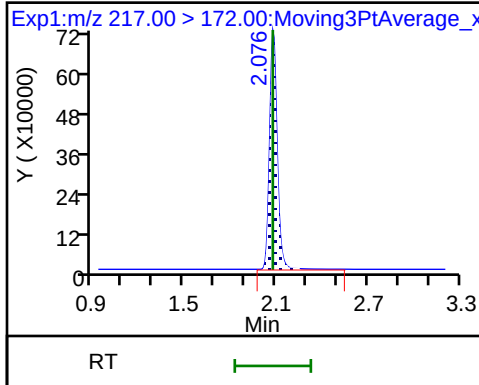
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

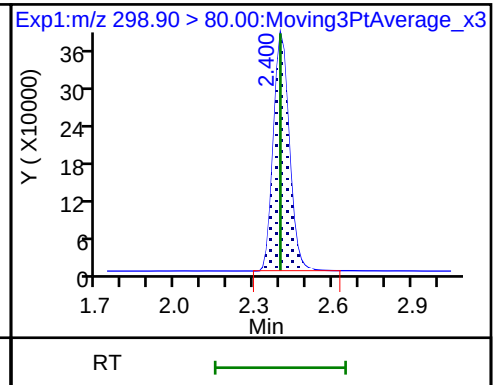
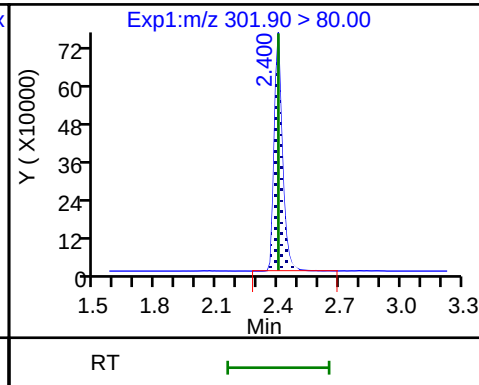
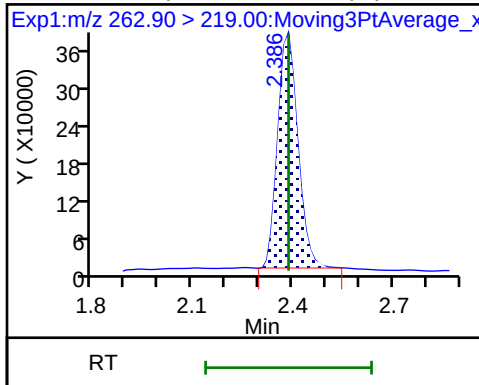
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

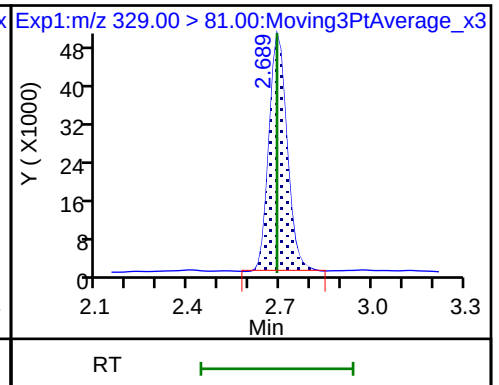
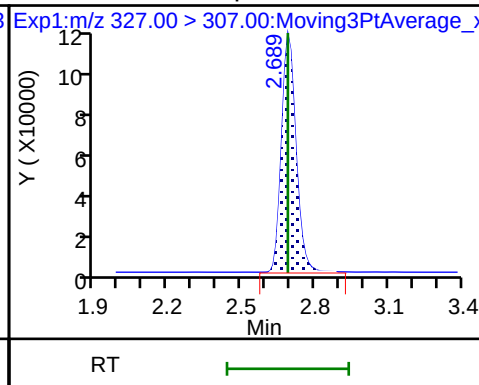
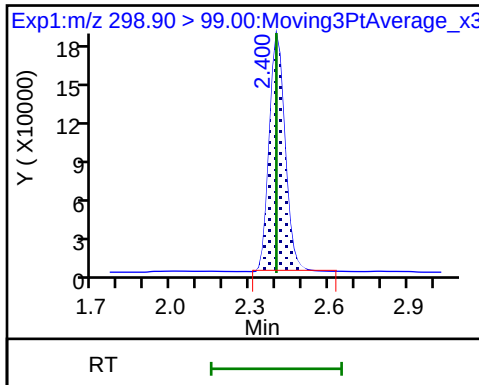
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

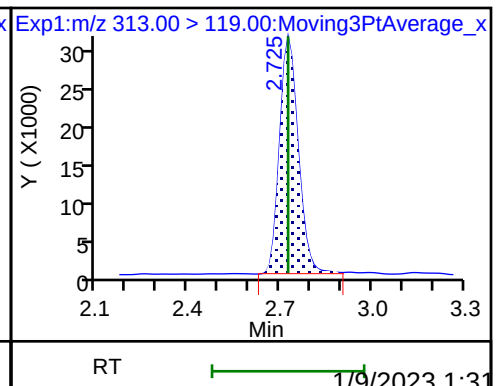
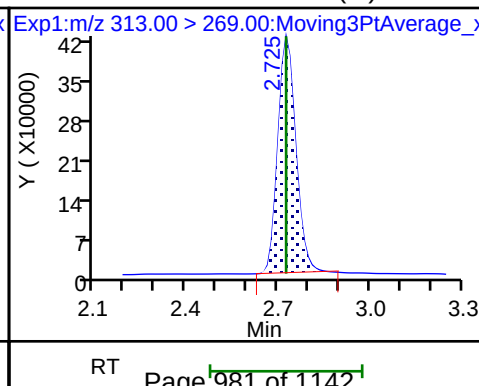
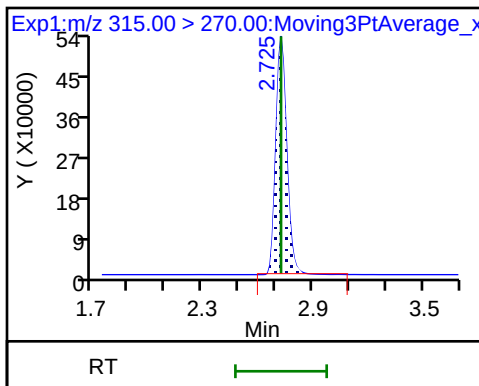
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

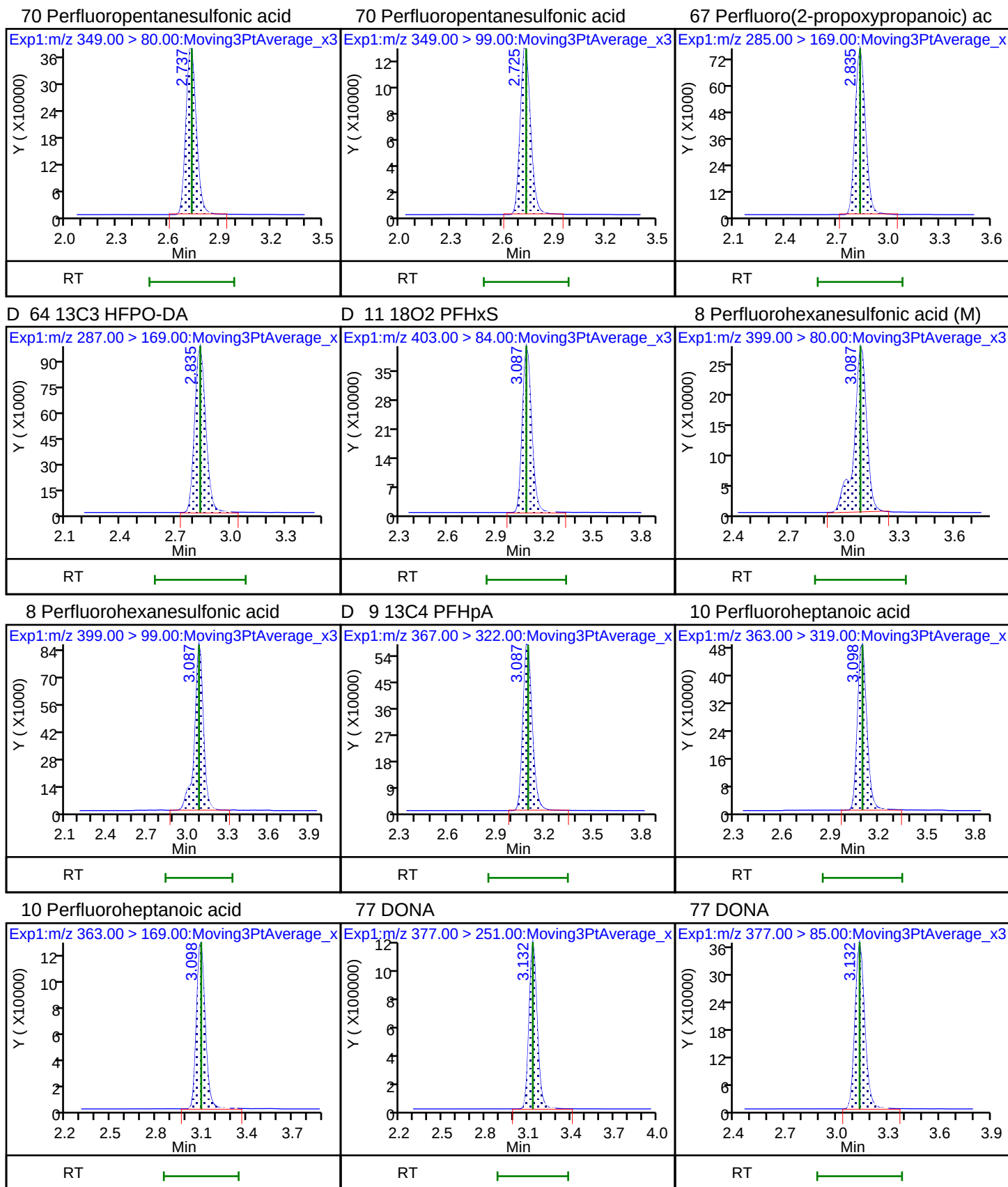


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

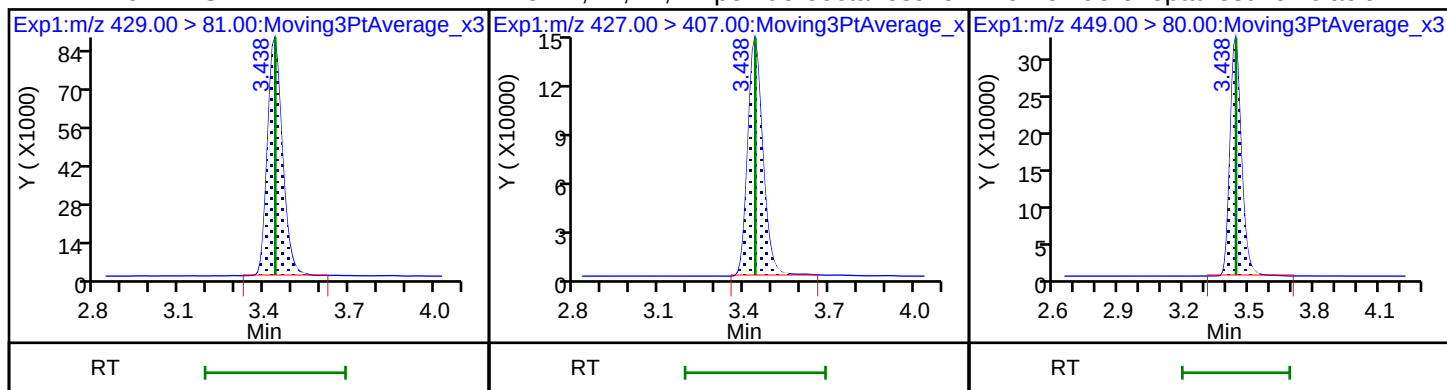




D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo

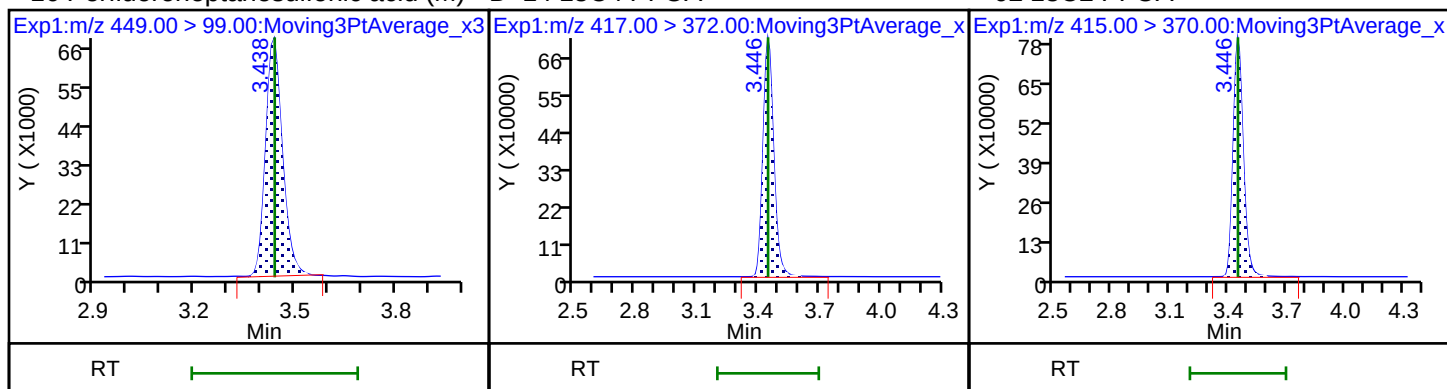
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

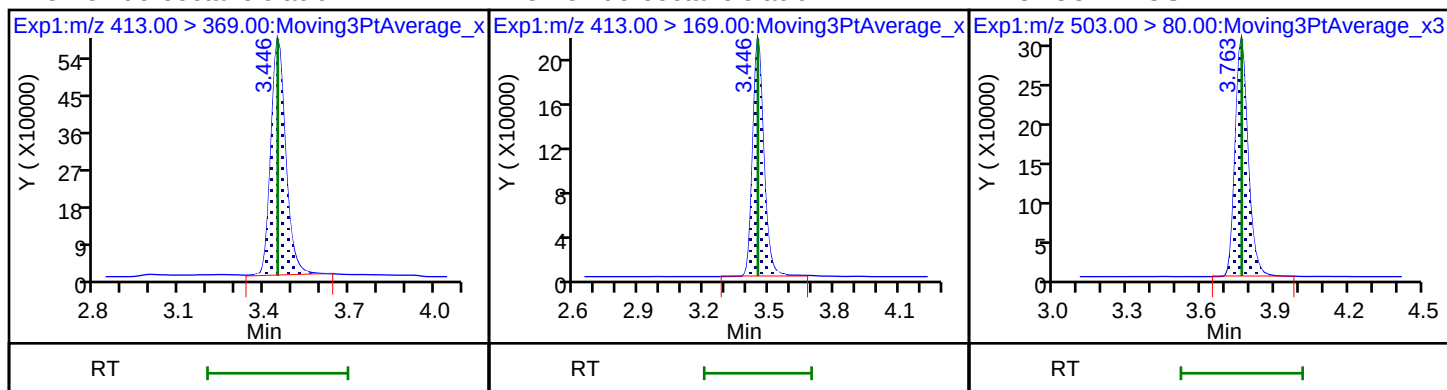
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

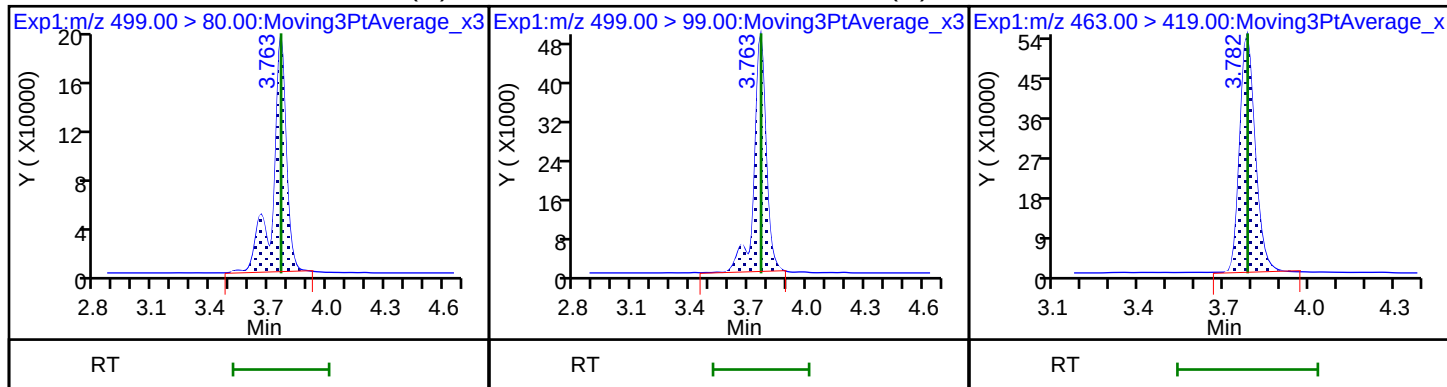
D 18 13C4 PFOS

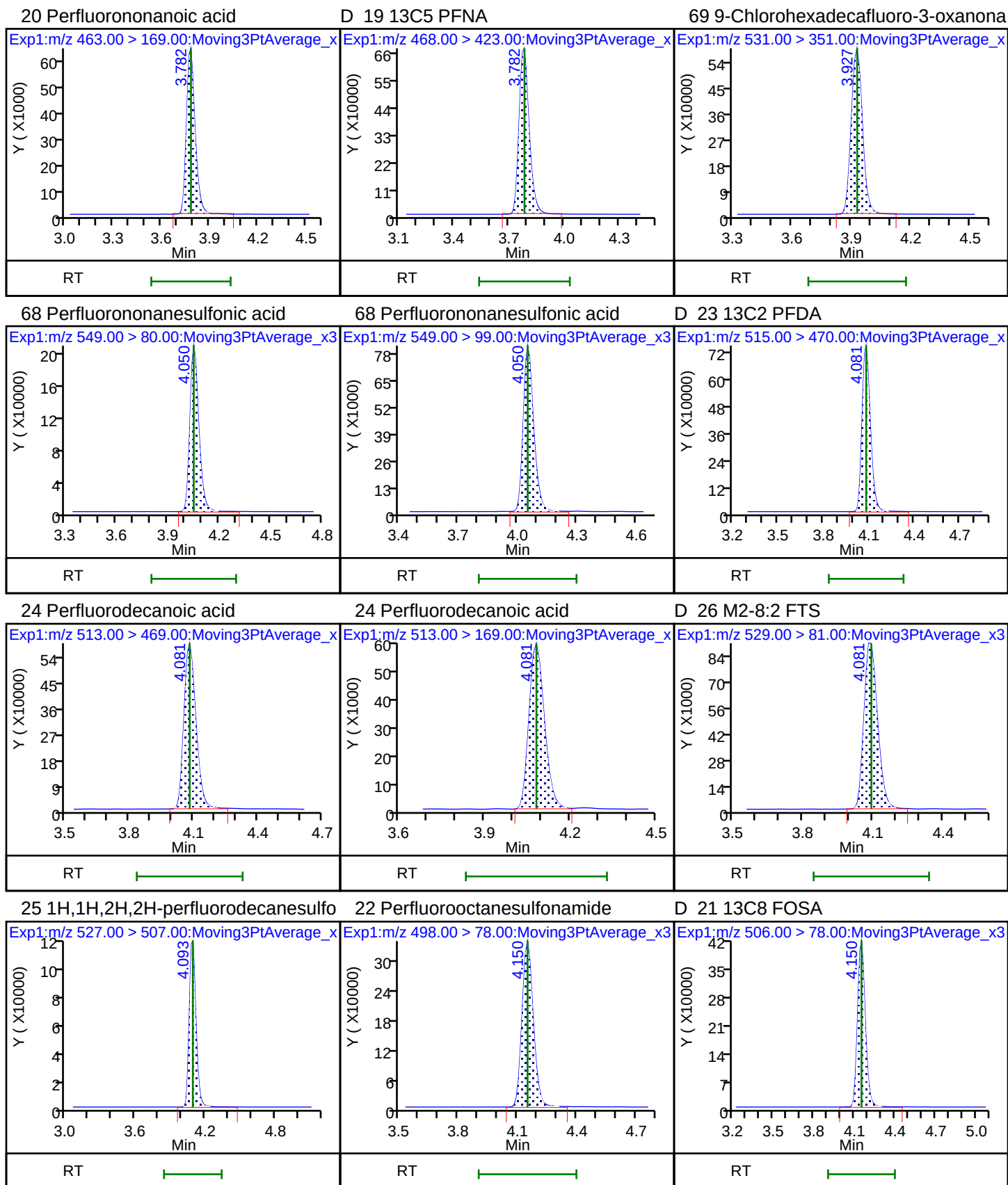


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

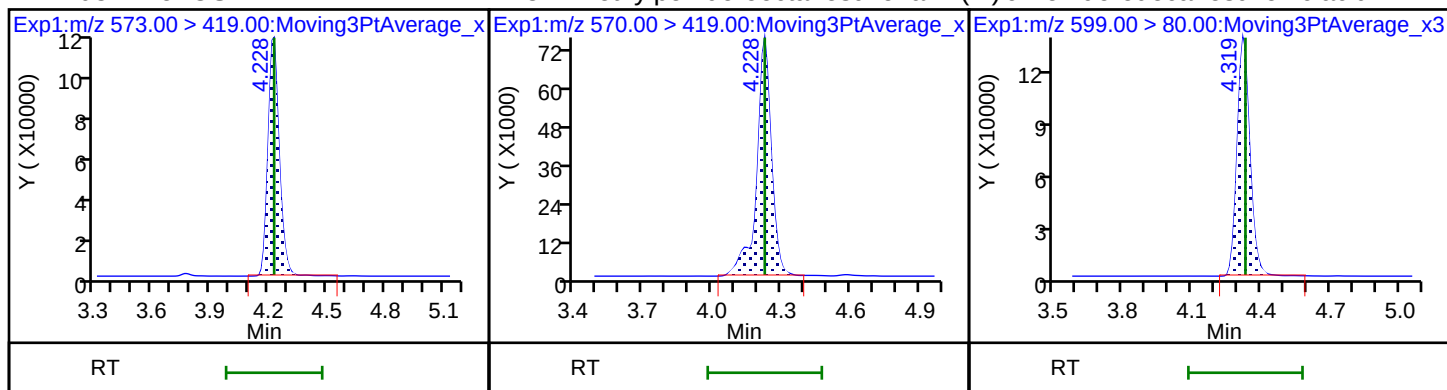
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

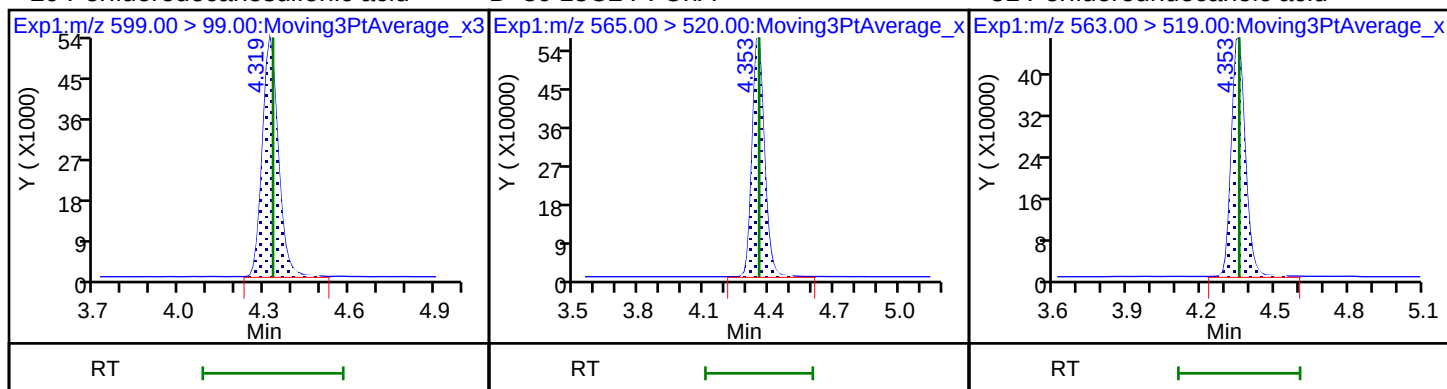
28 N-methylperfluorooctanesulfonami (M29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

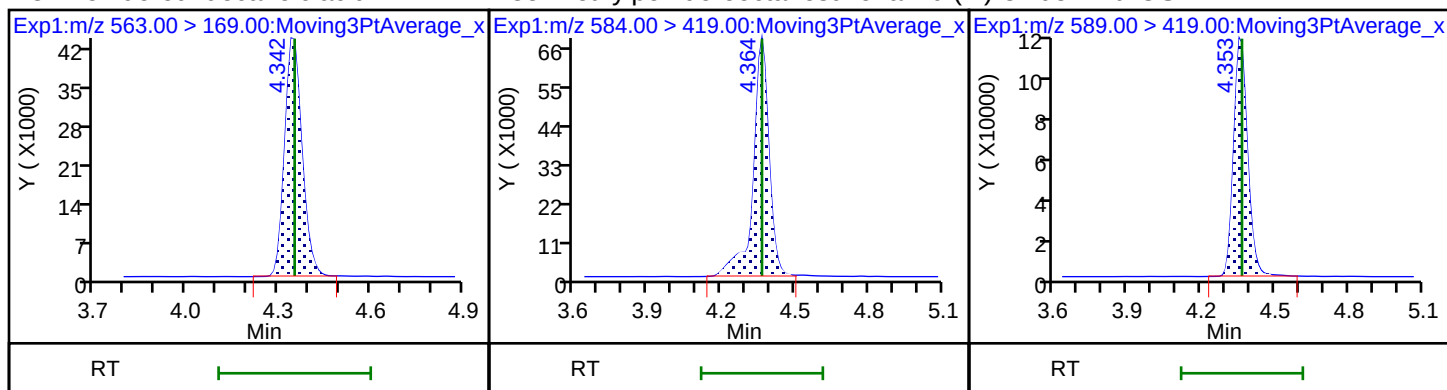
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

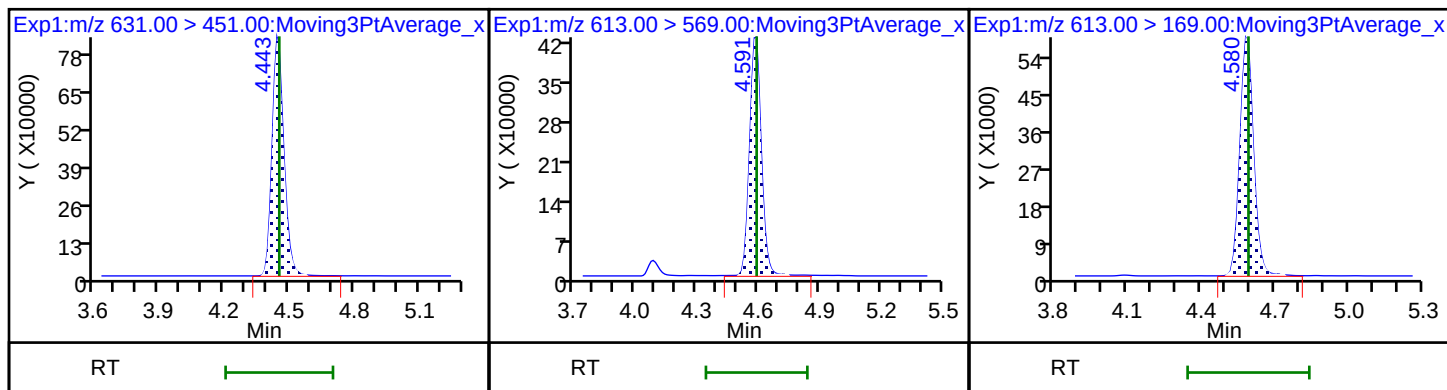
33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

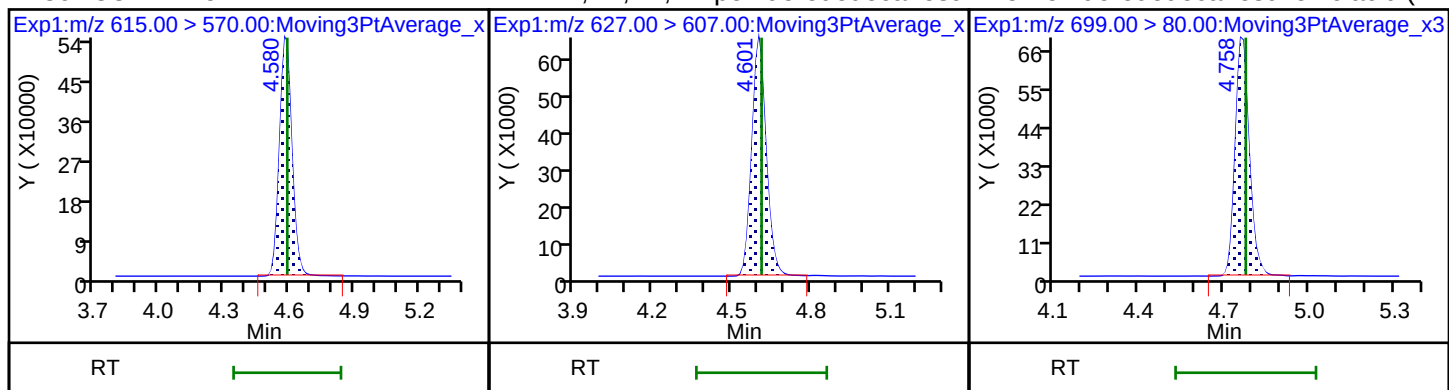
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFD0A

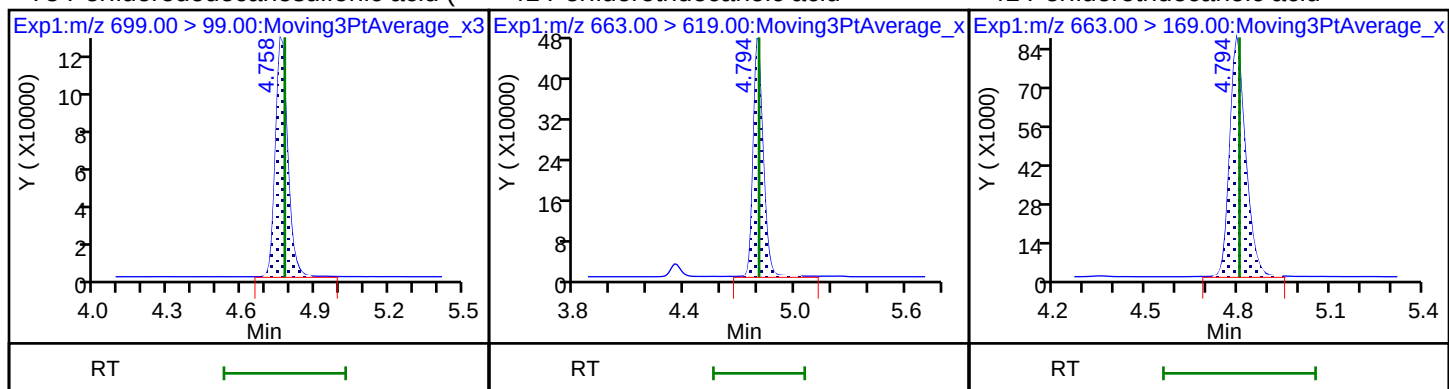
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

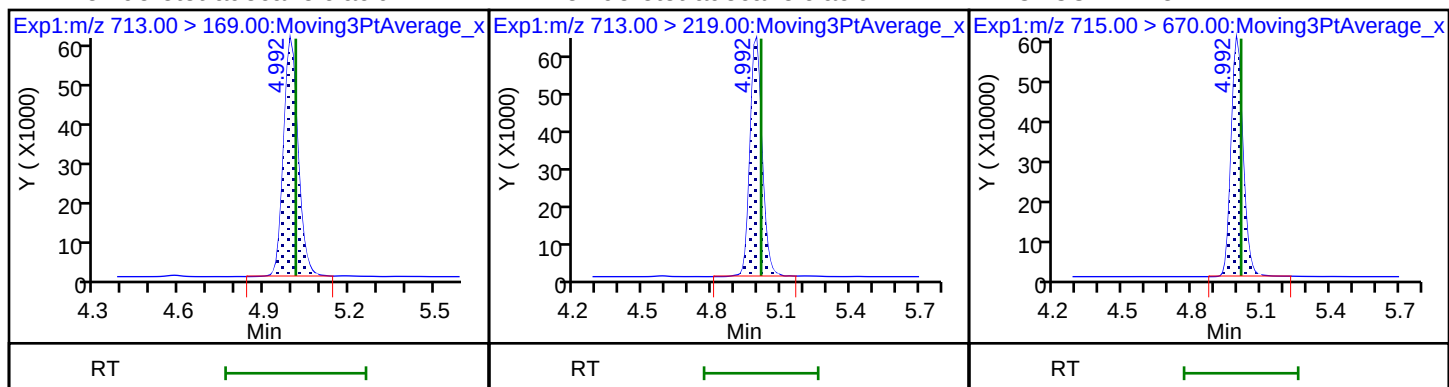
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

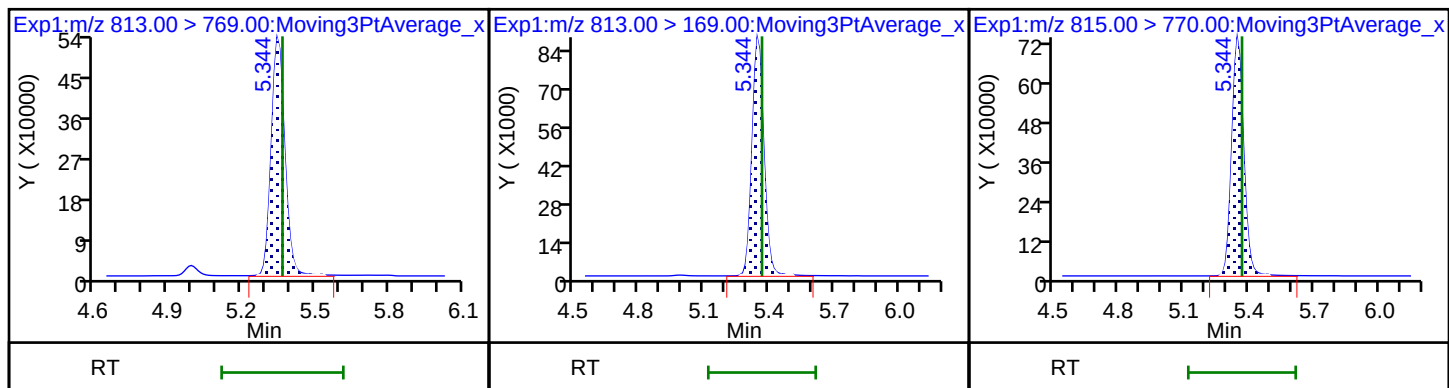
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

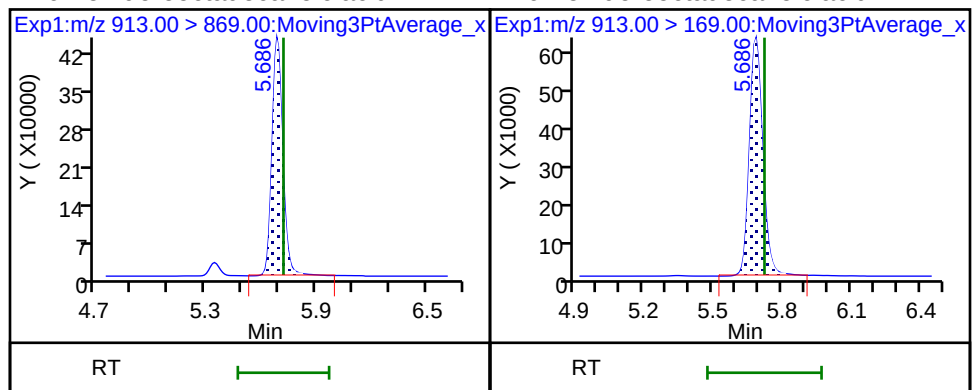
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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)

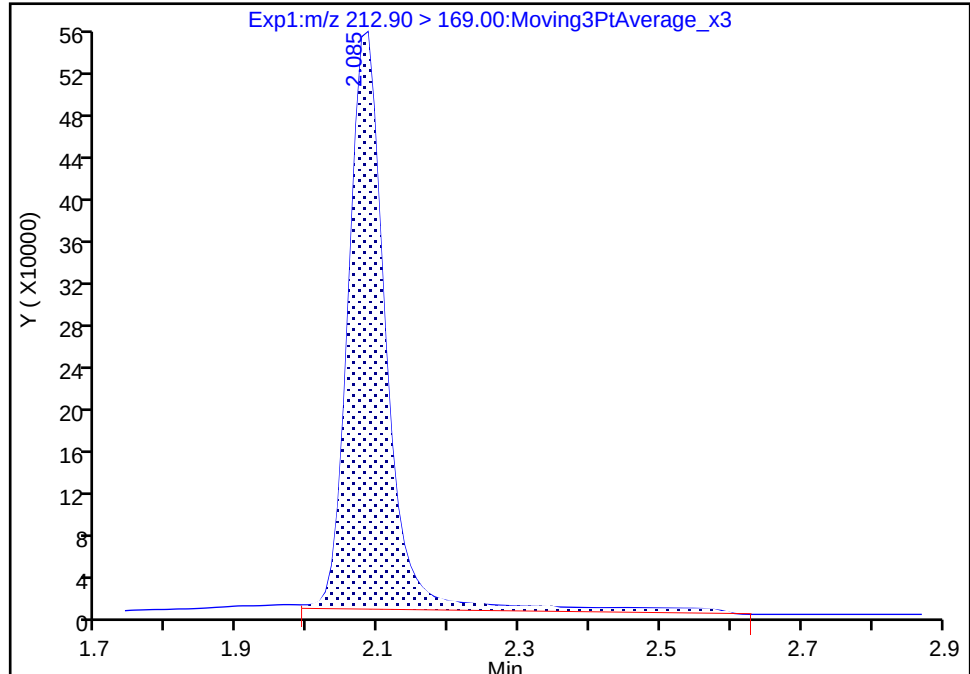
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

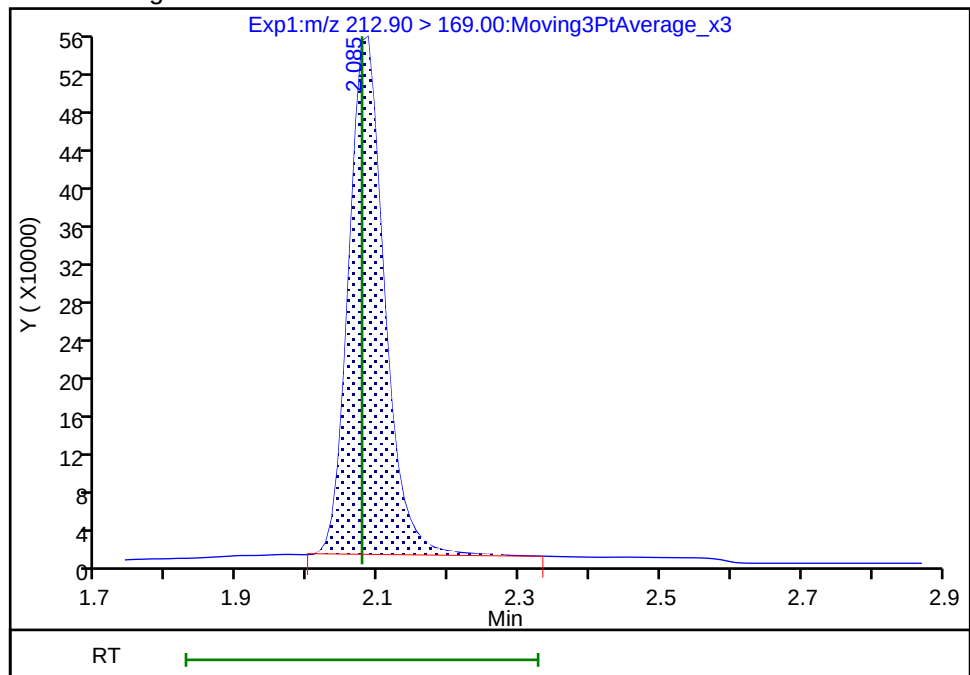
RT: 2.08
Area: 2096657
Amount: 1.026455
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1920913
Amount: 0.940417
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:57:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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)

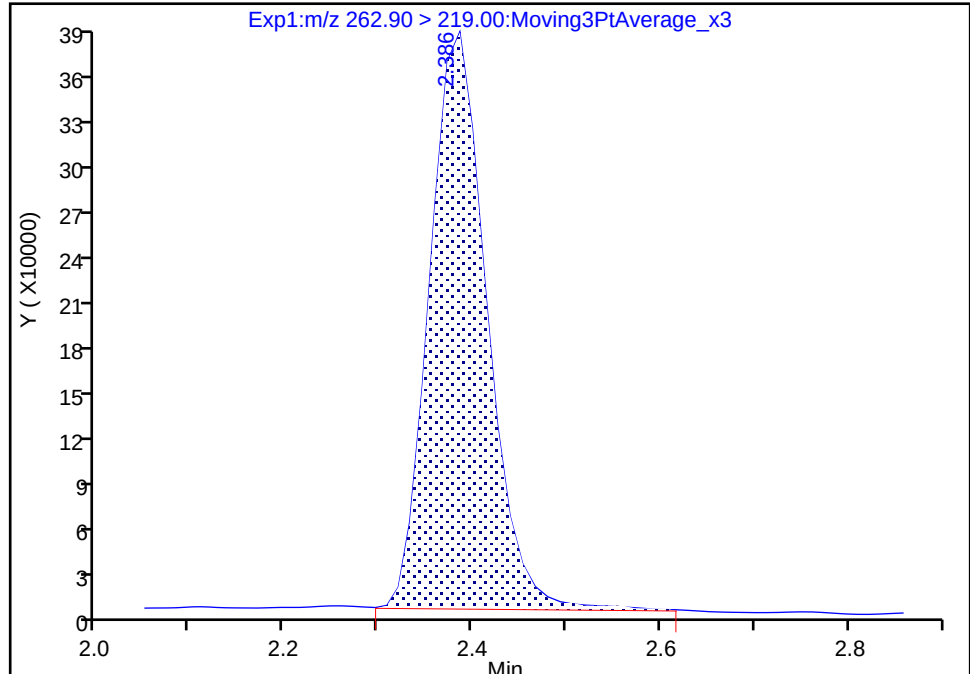
Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

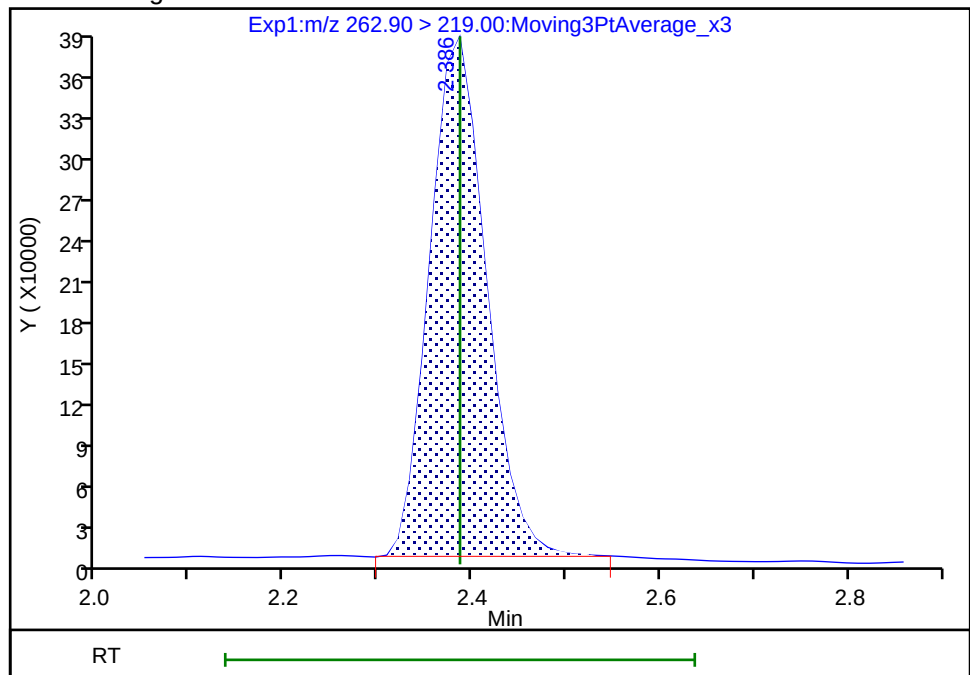
RT: 2.39
Area: 1595255
Amount: 0.963136
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1576995
Amount: 0.952112
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:57:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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)

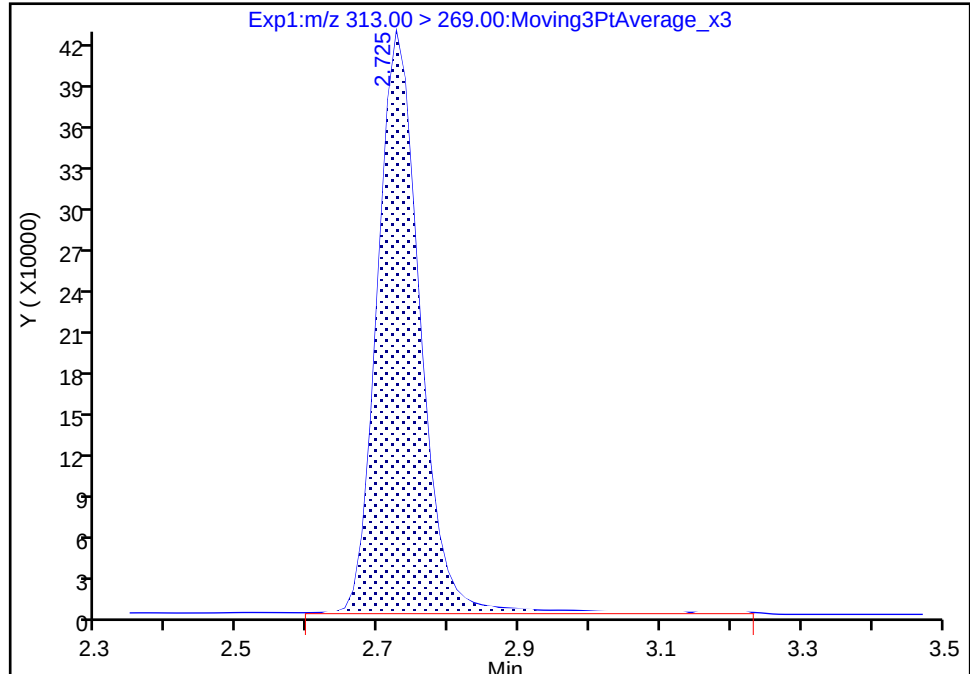
Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

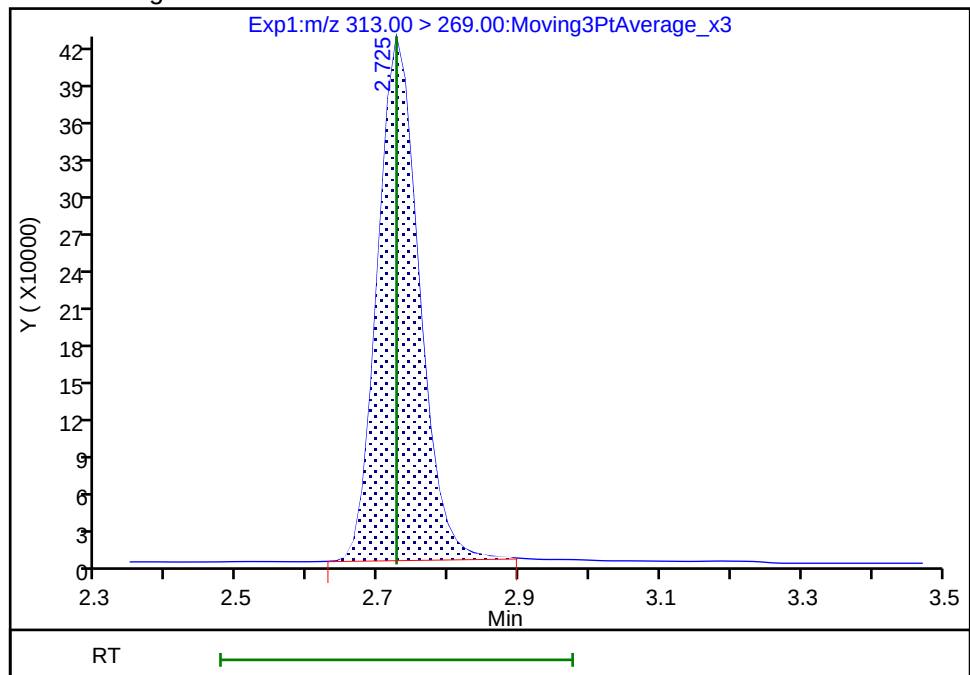
RT: 2.73
Area: 1770281
Amount: 0.909725
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1727180
Amount: 0.887576
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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)

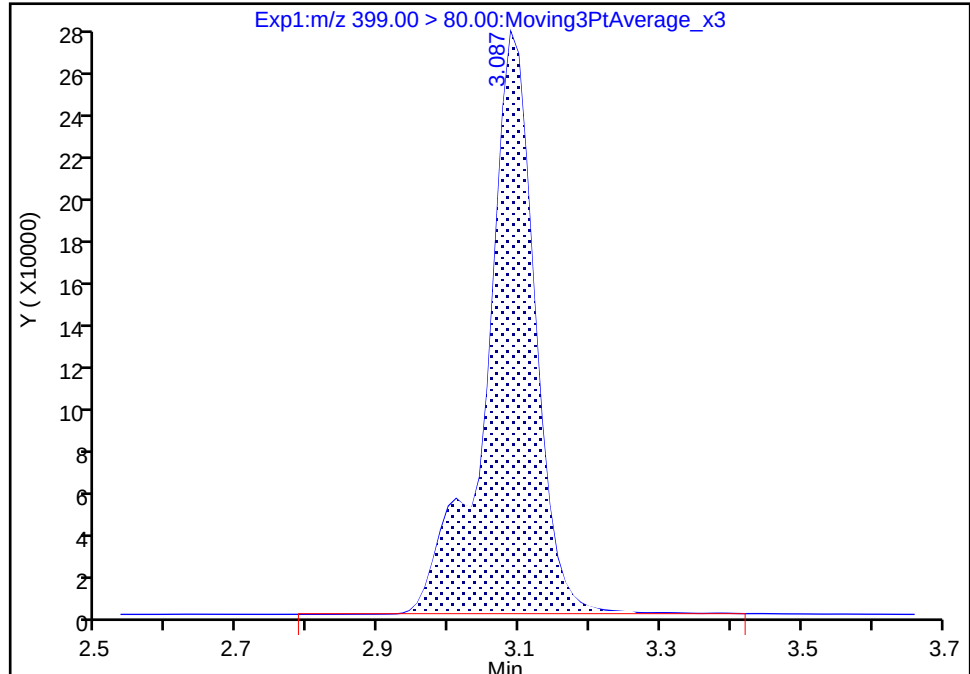
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

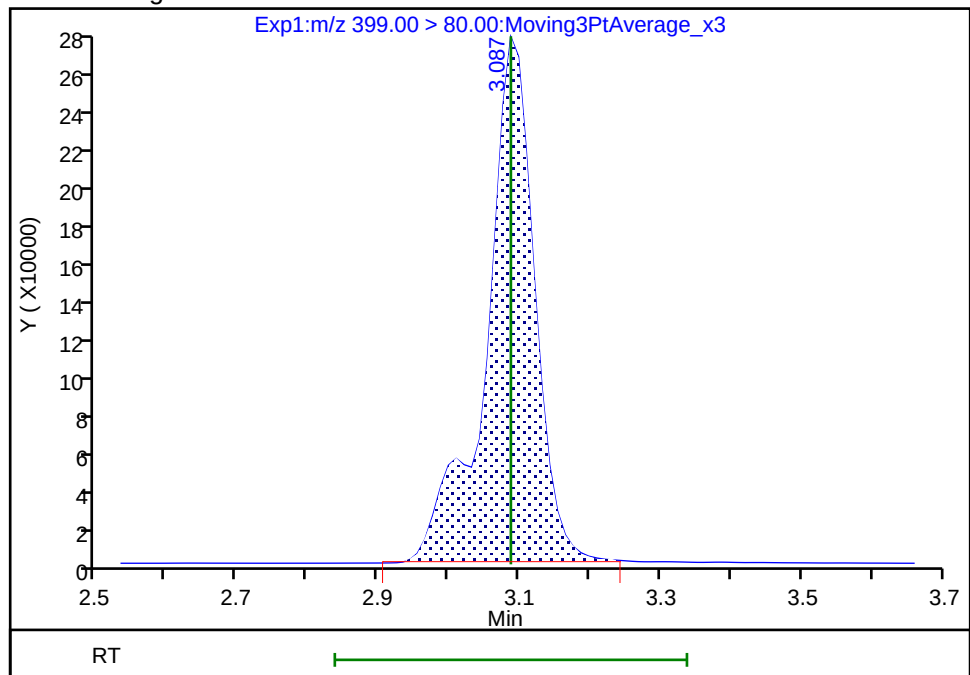
RT: 3.09
Area: 1329996
Amount: 0.859762
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1312563
Amount: 0.848493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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

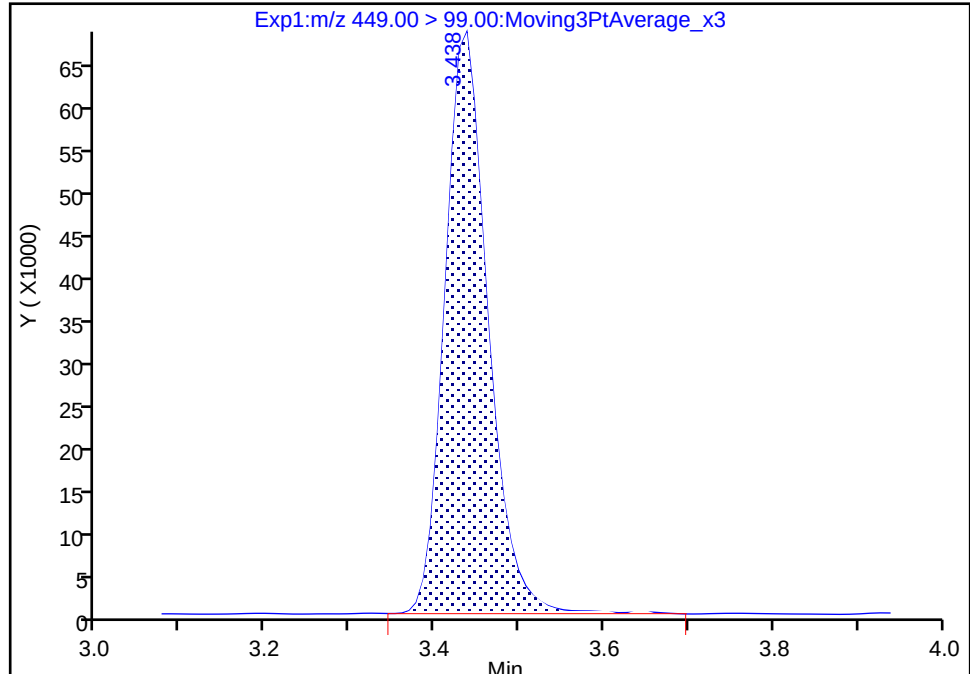
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

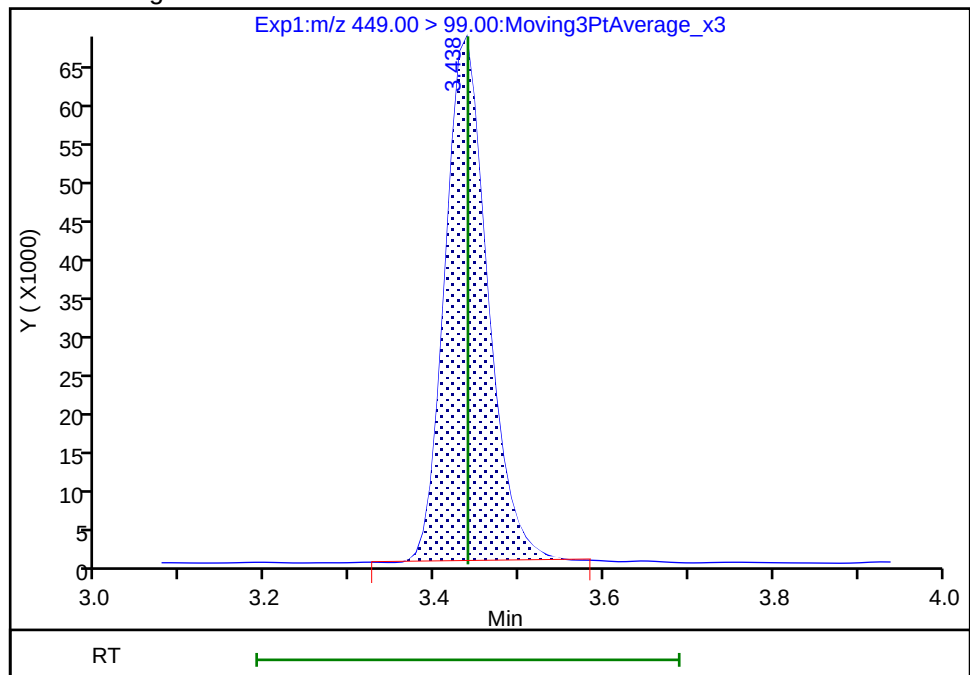
RT: 3.44
Area: 243607
Amount: 0.921249
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 239007
Amount: 0.921249
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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

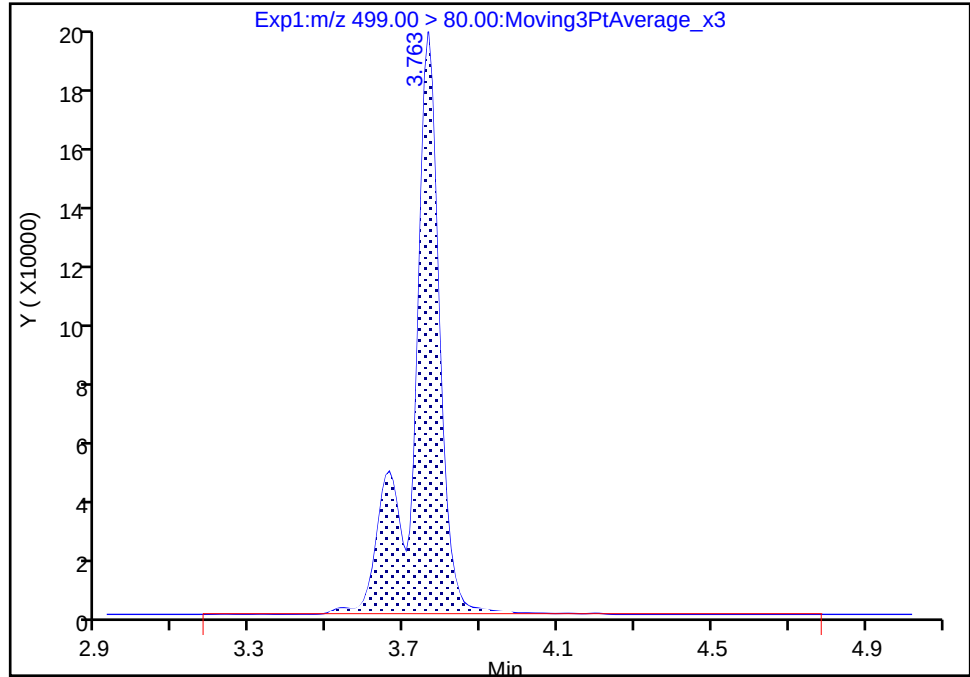
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

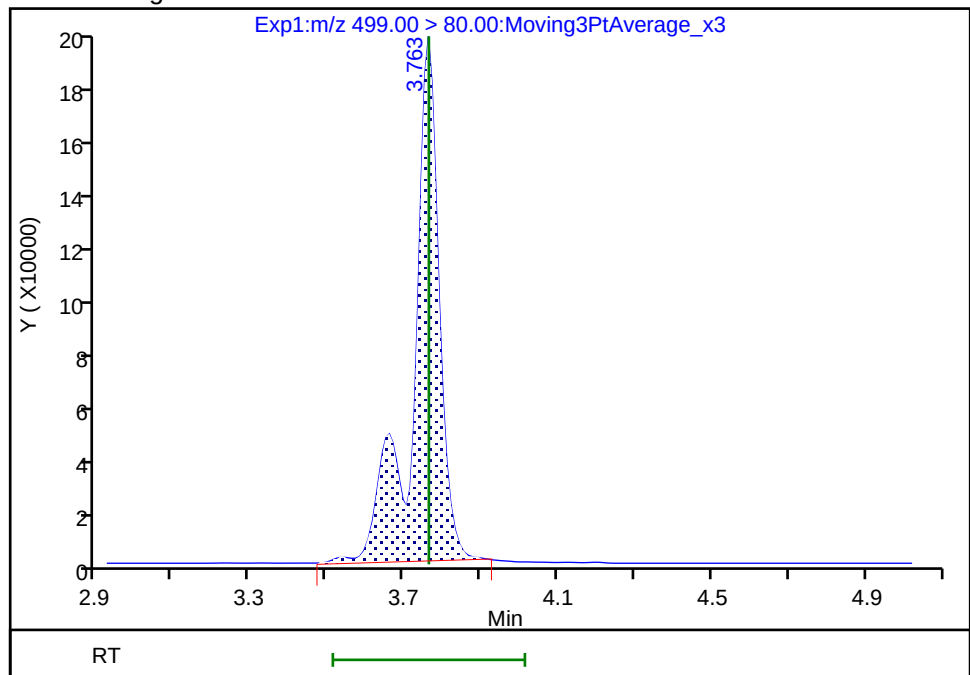
RT: 3.76
Area: 979545
Amount: 0.873670
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 950959
Amount: 0.848174
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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

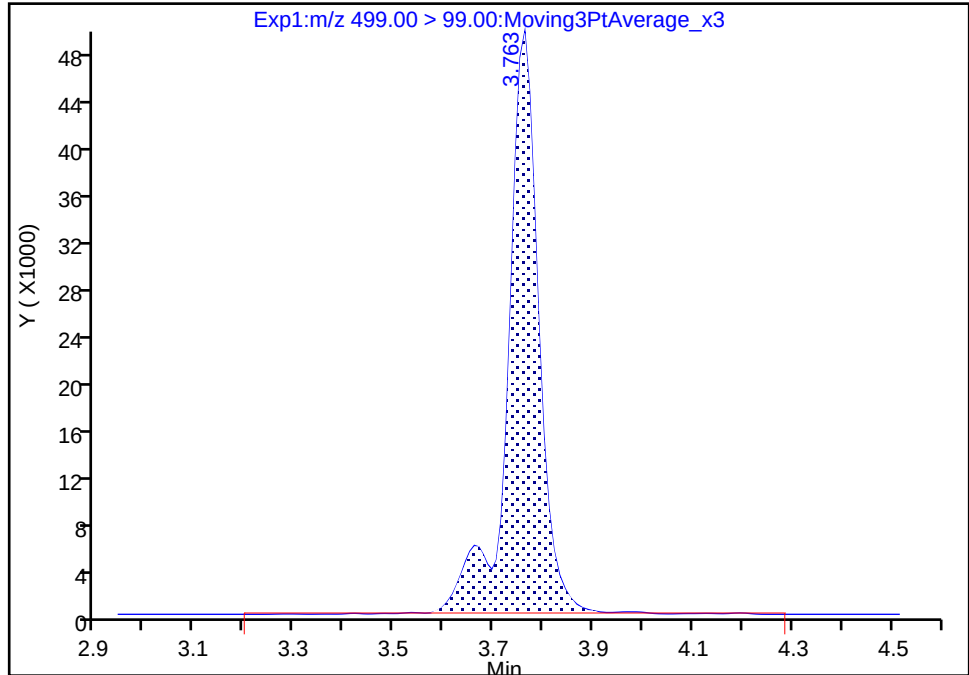
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

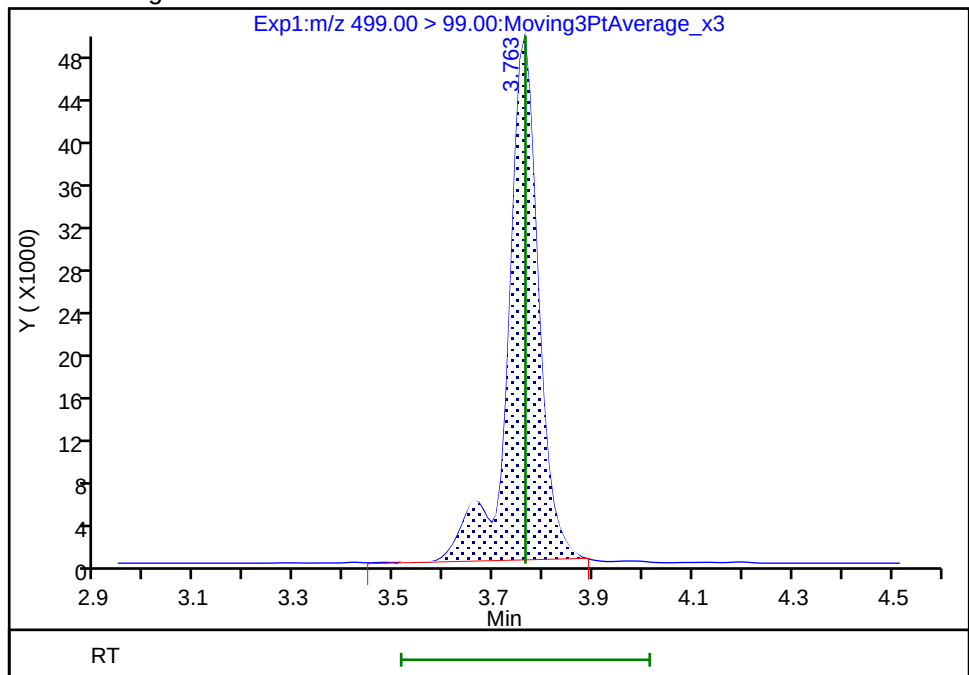
RT: 3.76
Area: 218080
Amount: 0.873670
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 209646
Amount: 0.848174
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 994 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

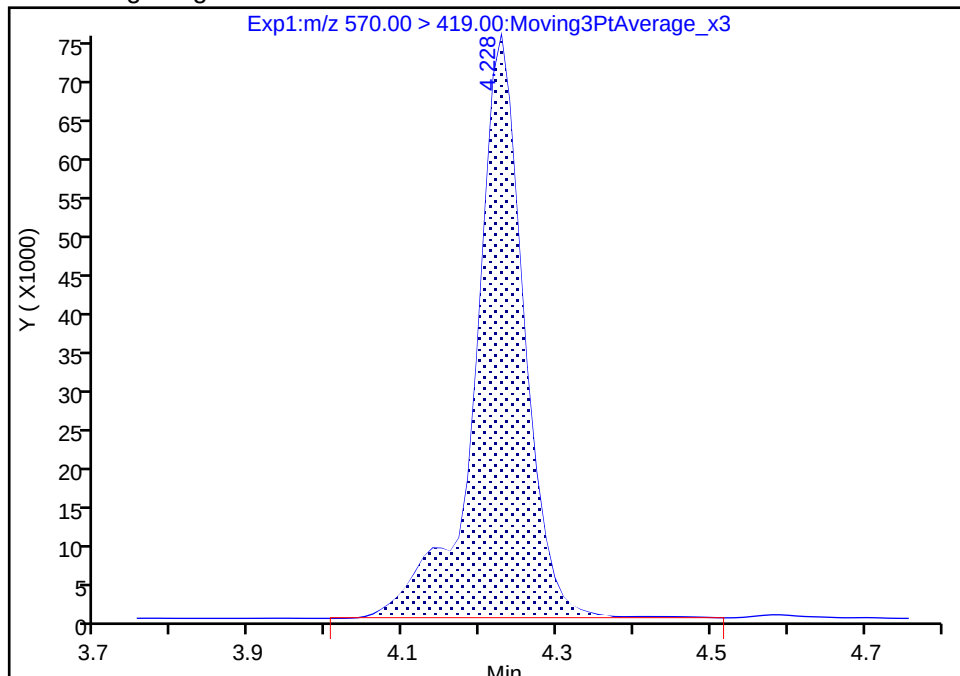
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d
Injection Date: 30-Dec-2022 13:34:02 Instrument ID: LC812
Lims ID: LCS 200-187080/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

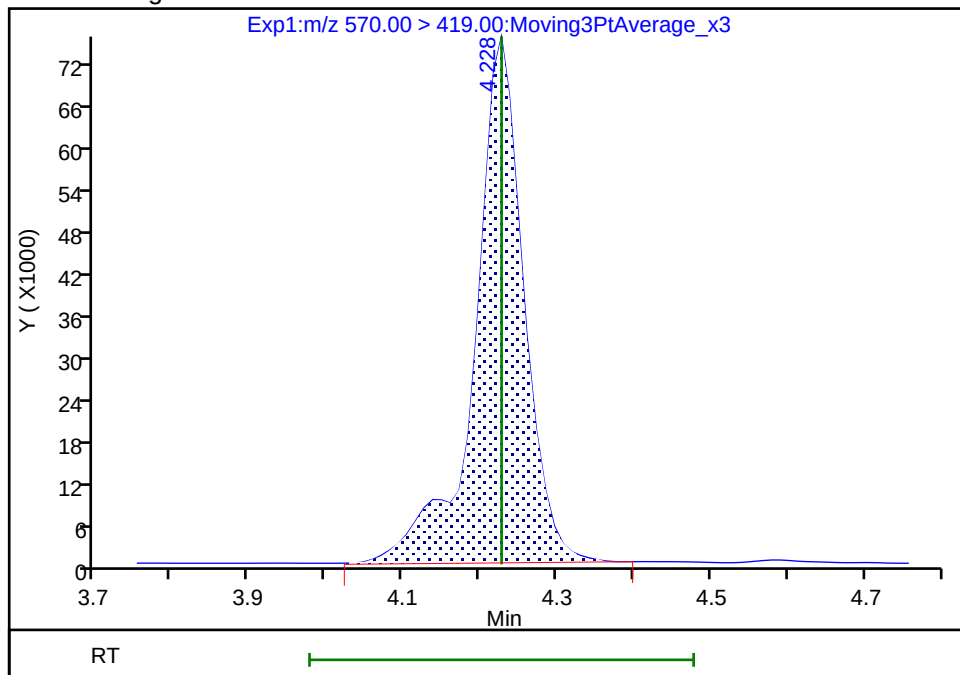
RT: 4.23
Area: 338043
Amount: 1.033502
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 334020
Amount: 1.021064
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A07.d

Injection Date: 30-Dec-2022 13:34:02

Instrument ID: LC812

Lims ID: LCS 200-187080/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

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)

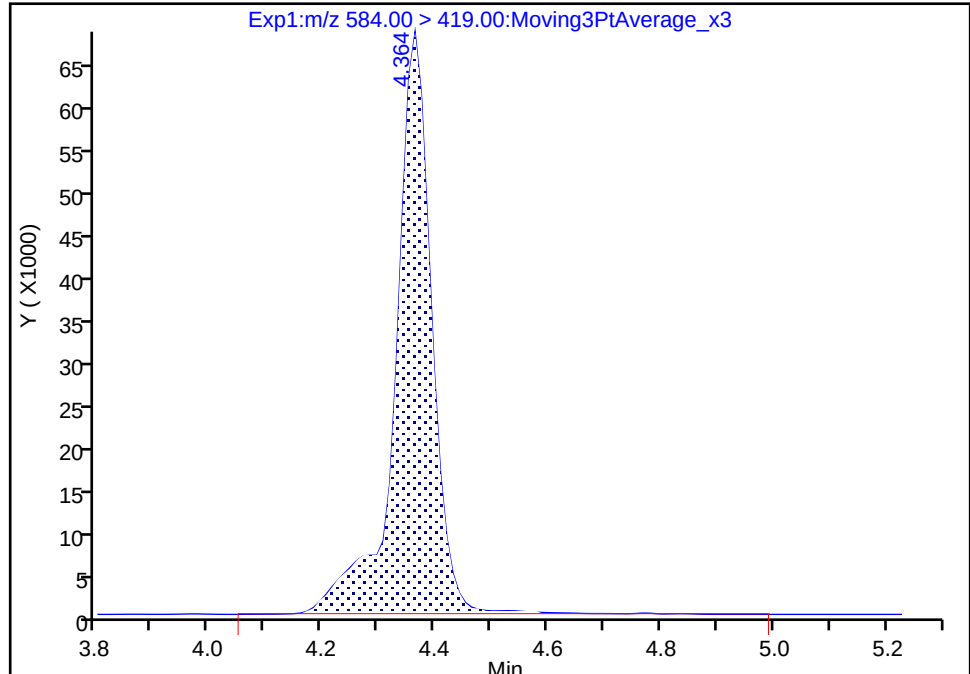
Detector: EXP1

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

Signal: 1

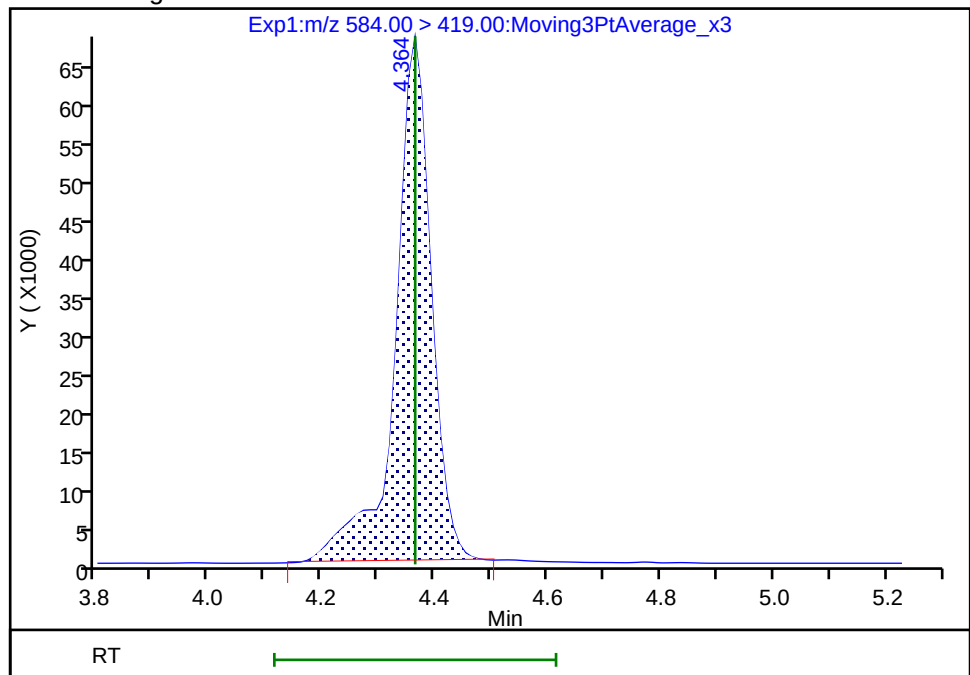
RT: 4.36
Area: 314055
Amount: 0.951074
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 305119
Amount: 0.924013
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 08:58:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187142/2-A
 Matrix: Water Lab File ID: PA221230C03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 12/29/2022 13:39
 Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:41
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187179 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	39.12		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.97		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	37.84		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	36.73		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	41.53		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	39.14		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	39.71		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	39.60		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	37.58		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	35.23		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	34.68		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	35.10		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	37.59		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	40.25		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	32.15		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.56		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	33.78		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	42.79		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.49		5.00	1.60
27619-97-2	6:2 FTS	40.94		5.00	1.30
39108-34-4	8:2 FTS	42.02		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-187142/2-A
 Matrix: Water Lab File ID: PA221230C03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 12/29/2022 13:39
 Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:41
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187179 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	105		50-150
STL00990	13C4 PFOA	98		50-150
STL00995	13C5 PFNA	102		50-150
STL00992	13C4 PFBA	89		50-150
STL00993	13C2 PFHxA	100		50-150
STL00996	13C2 PFDA	100		50-150
STL00997	13C2 PFUnA	96		50-150
STL00994	18O2 PFHxS	96		50-150
STL00998	13C2 PFDoA	90		50-150
STL00991	13C4 PFOS	89		50-150
STL01056	13C8 FOSA	76		50-150
STL01893	13C5 PFPeA	91		50-150
STL02116	13C2 PFTeDA	93		50-150
STL02118	d3-NMeFOSAA	88		50-150
STL02117	d5-NEtFOSAA	90		50-150
STL02279	M2-6:2 FTS	113		50-150
STL02337	13C3 PFBS	92		50-150
STL02280	M2-8:2 FTS	101		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d
 Lims ID: LCS 200-187142/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Dec-2022 22:41:59 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-187142/2-A
 Misc. Info.: 200-0053867-003 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:04 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 13:02:08

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.129	2.076	0.053	0.641	2870121	1.11		88.8	11582	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.129	2.076	0.053	1.000	2315381	0.9779		97.8	157	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.387	0.004	0.720	2227820	1.13		90.5	2782	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.404	2.387	0.017	1.006	1892503	0.9743		97.4	41.7	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.404	2.400	0.004	0.724	2299658	1.08		92.5	136621	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.418	2.400	0.018	1.006	1985783	0.8774	Target=2.09	99.3	1786	
298.90 > 99.00	2.418	2.400	0.018	1.006	916364		2.17(1.04-3.13)		422	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.660	2.689	-0.029	1.000	493282	0.8831		94.5	1673	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.660	2.689	-0.029	0.801	211683	1.12		95.9	227	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.696	2.725	-0.029	0.811	2590520	1.26		100	3065	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.696	2.725	-0.029	1.000	2136106	0.9460	Target=14.25	94.6	316	M
313.00 > 119.00	2.696	2.725	-0.029	1.000	150860		14.16(7.12-21.37)		223	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.696	2.737	-0.041	0.897	1798144	0.8992	Target=3.04	95.9	1295	M
349.00 > 99.00	2.696	2.737	-0.041	0.897	631177		2.85(1.52-4.56)		1014	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.782	2.835	-0.053	1.000	383182	1.00		100	1614	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.782	2.835	-0.053	0.837	453161	1.24		99.6	1737	
D 11 18O2 PFHxS										
403.00 > 84.00	3.006	3.088	-0.082	0.905	1770643	1.14		96.1	2030	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.006	3.088	-0.082	1.000	1588291	0.9398	Target=3.66	103	1321	M
399.00 > 99.00	3.006	3.088	-0.082	1.000	448348		3.54(1.83-5.49)	540		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.006	3.099	-0.093	0.905	2792845	1.32		105	4194	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.006	3.099	-0.093	1.000	2233756	0.9182	Target=3.97	91.8	385	M
363.00 > 169.00	3.006	3.099	-0.093	1.000	593859		3.76(1.98-5.95)	1102		M
77 DONA										
377.00 > 251.00	3.039	3.132	-0.093	0.841	5484576	1.06	Target=3.16	113	2798	M
377.00 > 85.00	3.039	3.132	-0.093	0.841	1722098		3.18(1.58-4.73)	1567		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.313	3.439	-0.126	0.997	349998	1.34		113	817	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.313	3.439	-0.126	1.000	644670	1.02		108	435	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.313	3.439	-0.126	0.917	1316414	1.01	Target=5.14	106	1836	M
449.00 > 99.00	3.313	3.439	-0.126	0.917	266870		4.93(2.57-7.72)	941		
D 14 13C4 PFOA										
417.00 > 372.00	3.323	3.448	-0.125	1.000	2921823	1.22		98.0	3710	
* 62 13C2 PFOA										
415.00 > 370.00	3.323	3.448	-0.125		2881005	1.25			2812	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.323	3.448	-0.125	1.000	2594373	1.04	Target=2.79	104	171	M
413.00 > 169.00	3.323	3.448	-0.125	1.000	871943		2.98(1.40-4.19)	1076		M
D 18 13C4 PFOS										
503.00 > 80.00	3.615	3.764	-0.149	1.088	1119313	1.06		88.6	1673	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.615	3.764	-0.149	1.000	1041205	0.9140	Target=5.11	98.5	774	M
499.00 > 99.00	3.615	3.764	-0.149	1.000	233376		4.46(2.55-7.66)	607		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.633	3.783	-0.150	1.000	2403633	0.9785	Target=8.55	97.9	466	
463.00 > 169.00	3.633	3.783	-0.150	1.000	277370		8.67(4.28-12.83)	1871		
D 19 13C5 PFNA										
468.00 > 423.00	3.633	3.783	-0.150	1.093	2959903	1.28		102	4984	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.770	3.928	-0.158	1.043	2651026	1.01		109	3442	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.900	4.050	-0.150	1.079	819565	0.9532	Target=2.53	99.3	2119	
549.00 > 99.00	3.900	4.050	-0.150	1.079	315753		2.60(1.27-3.80)	1025		
D 23 13C2 PFDA										
515.00 > 470.00	3.924	4.081	-0.157	1.181	2944317	1.25		99.7	3840	

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	3.924	4.081	-0.157	1.000	2535578	0.99	Target=10.26	99.3	803	
513.00 > 169.00	3.924	4.081	-0.157	1.000	236107		10.74(5.13-15.38)		585	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.937	4.093	-0.156	1.185	387405	1.21		101	1317	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	3.937	4.093	-0.156	1.000	549579	1.05		110	2749	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	3.986	4.150	-0.164	1.000	1306633	0.8445		84.4	1524	
D 21 13C8 FOSA										
506.00 > 78.00	3.986	4.150	-0.164	1.200	1851263	0.9559		76.5	2167	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.060	4.228	-0.168	1.222	530496	1.10		88.2	1276	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.070	4.228	-0.158	1.003	394819	1.07		107	486	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.160	4.331	-0.171	1.151	545689	0.8038	Target=2.51	83.4	2312	
599.00 > 99.00	4.160	4.331	-0.171	1.151	209537		2.60(1.25-3.76)		1412	
D 30 13C2 PFUnA										
565.00 > 520.00	4.183	4.353	-0.170	1.259	2583796	1.19		95.6	3849	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.183	4.353	-0.170	1.000	2062463	0.99	Target=9.88	99.0	670	M
563.00 > 169.00	4.183	4.353	-0.170	1.000	186415		11.06(4.94-14.82)		895	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.195	4.365	-0.170	1.000	368913	0.9624		96.2	605	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.195	4.365	-0.170	1.262	535247	1.13		90.4	1113	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.285	4.454	-0.169	1.185	3269467	0.8113		86.1	3833	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.420	4.591	-0.171	1.000	1974912	0.9395	Target=7.77	93.9	579	
613.00 > 169.00	4.420	4.591	-0.171	1.000	258277		7.65(3.89-11.66)		885	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.420	4.591	-0.171	1.330	2480191	1.13		90.0	3633	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.442	4.612	-0.170	1.128	262599	0.8354		86.7	1484	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.601	4.776	-0.175	1.273	225670	0.7857	Target=0.50	81.2	3124	
699.00 > 99.00	4.601	4.776	-0.175	1.273	426863		0.53(0.25-0.76)		1887	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.632	4.804	-0.172	1.048	1770504	0.8807	Target=5.21	88.1	578	M
663.00 > 169.00	4.632	4.804	-0.172	1.048	301992		5.86(2.60-7.81)		1613	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.824	5.012	-0.188	1.000	210601	0.8670	Target=0.89	86.7	1685	
713.00 > 219.00	4.824	5.012	-0.188	1.000	223165		0.94(0.44-1.33)		1373	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.824	5.012	-0.188	1.452	2217799	1.16		93.1	4190	

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	5.202	5.367	-0.165	1.003	2157294	1.00	Target=5.65	100	242	
813.00 > 169.00	5.189	5.367	-0.178	1.000	342569		6.30(2.82-8.47)		2047	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.189	5.367	-0.178	1.562	2882909	1.22		97.9	3604	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.540	5.722	-0.182	1.068	1909601	1.01	Target=6.24	101	216	M
913.00 > 169.00	5.540	5.722	-0.182	1.068	273005		6.99(3.12-9.36)		900	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

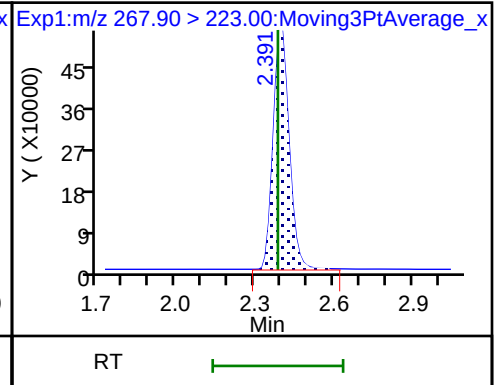
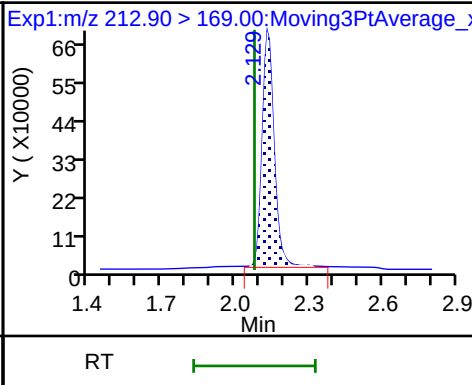
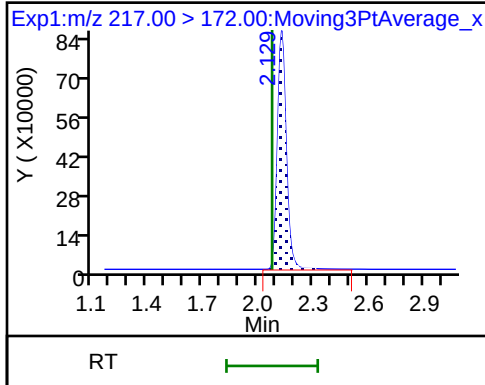
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

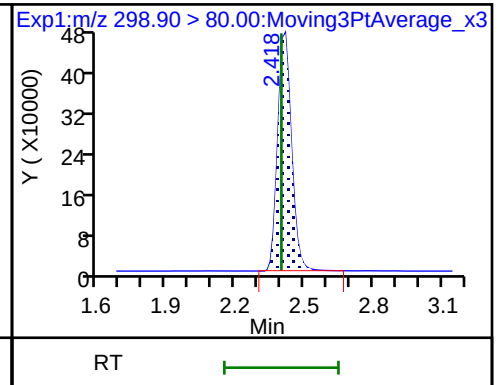
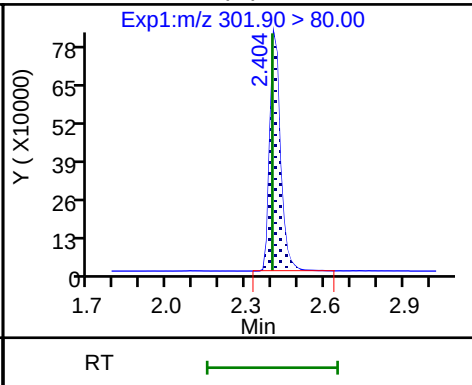
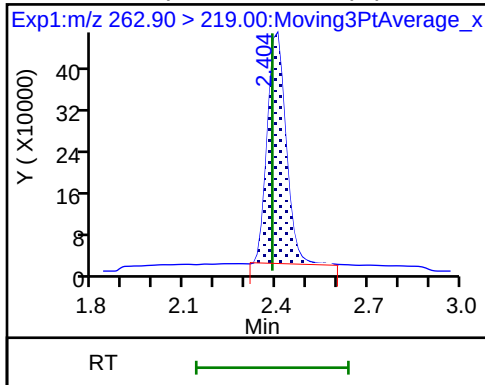
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

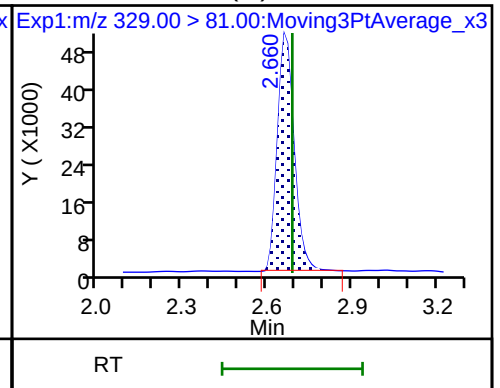
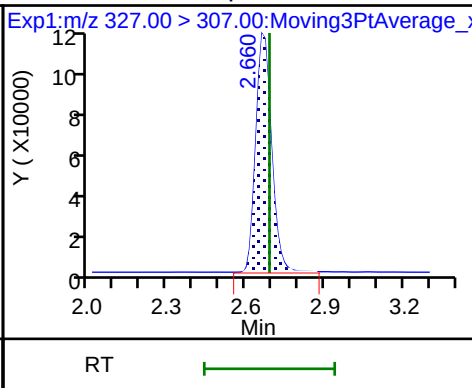
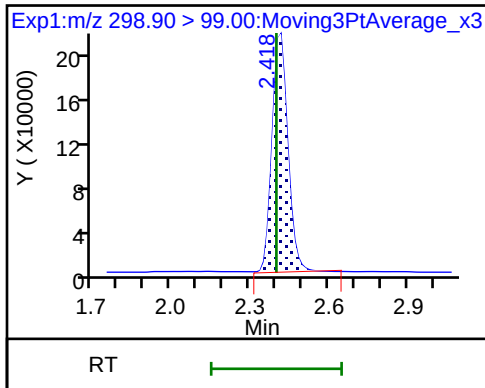
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

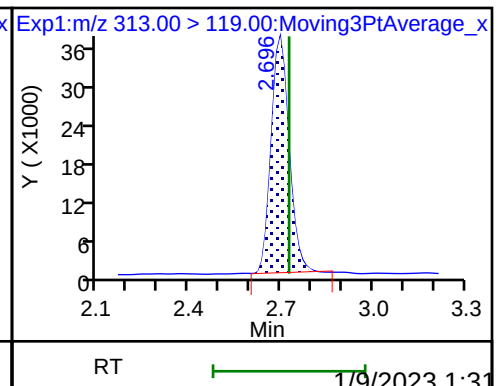
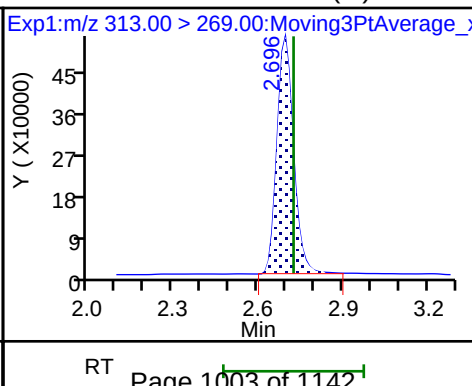
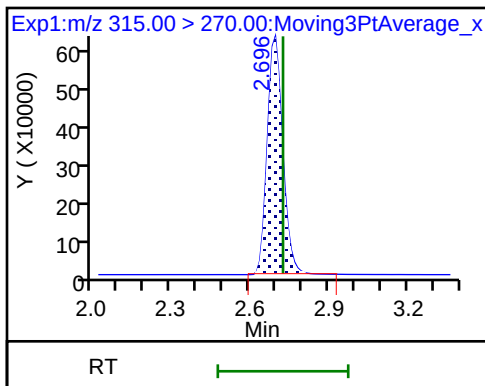
D 60 M2-4:2 FTS (M)

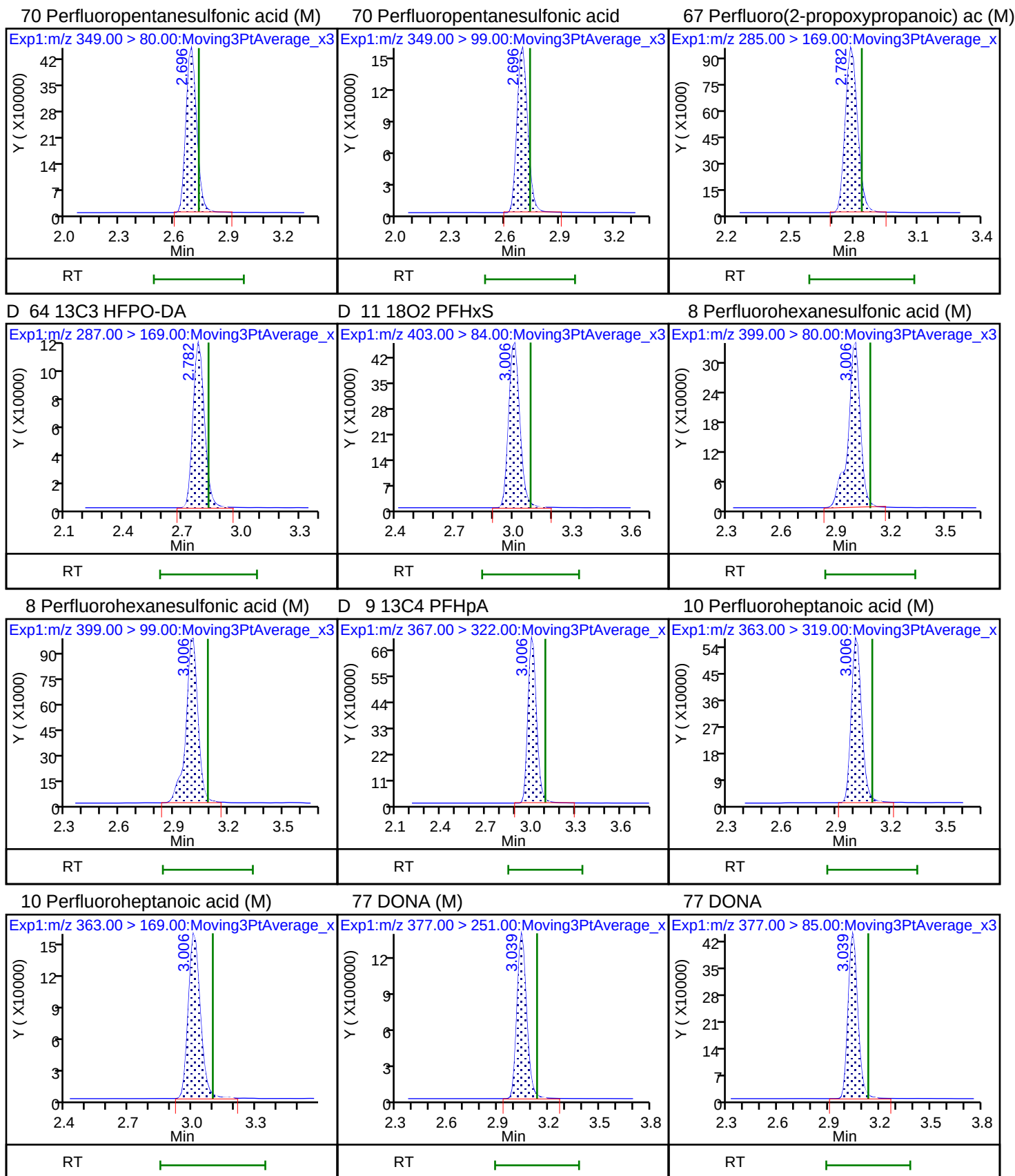


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

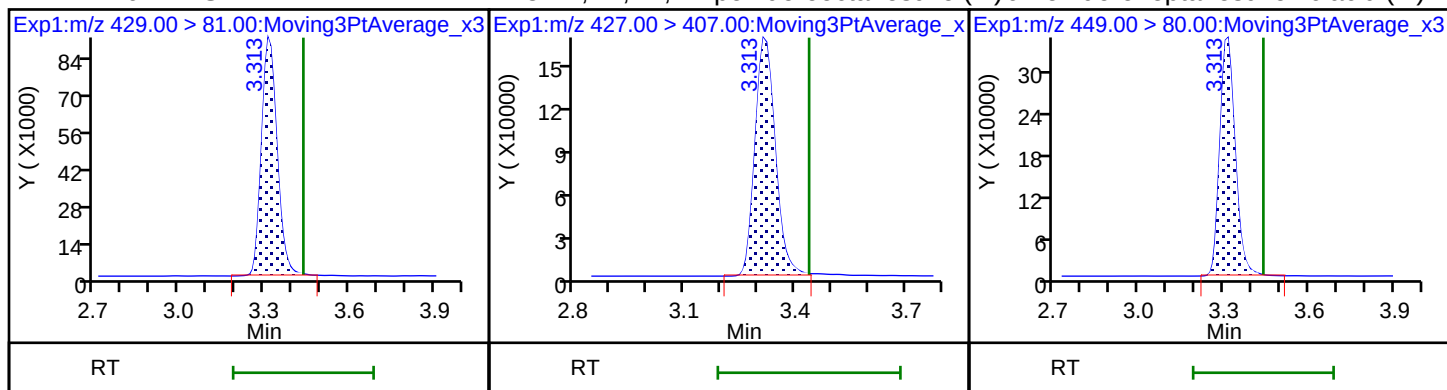
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

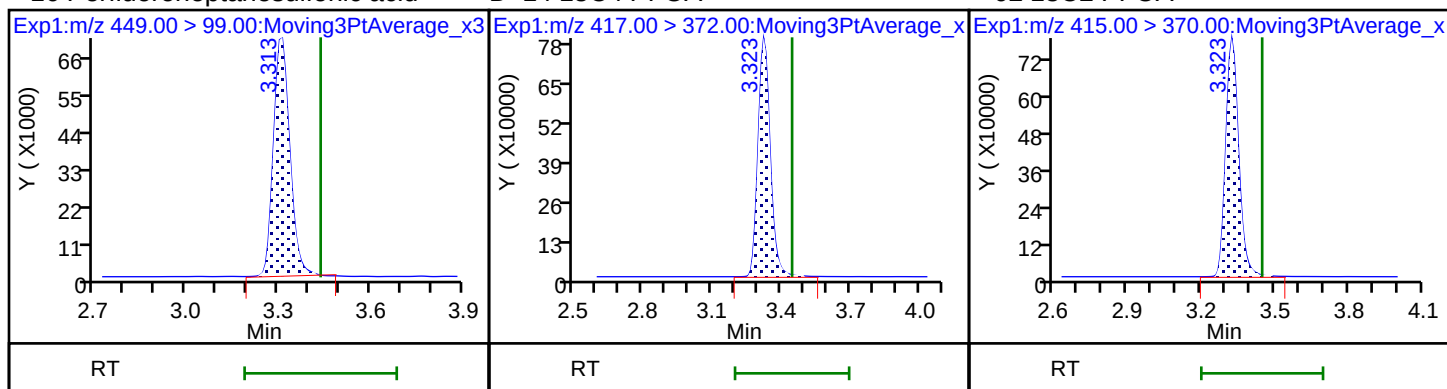
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

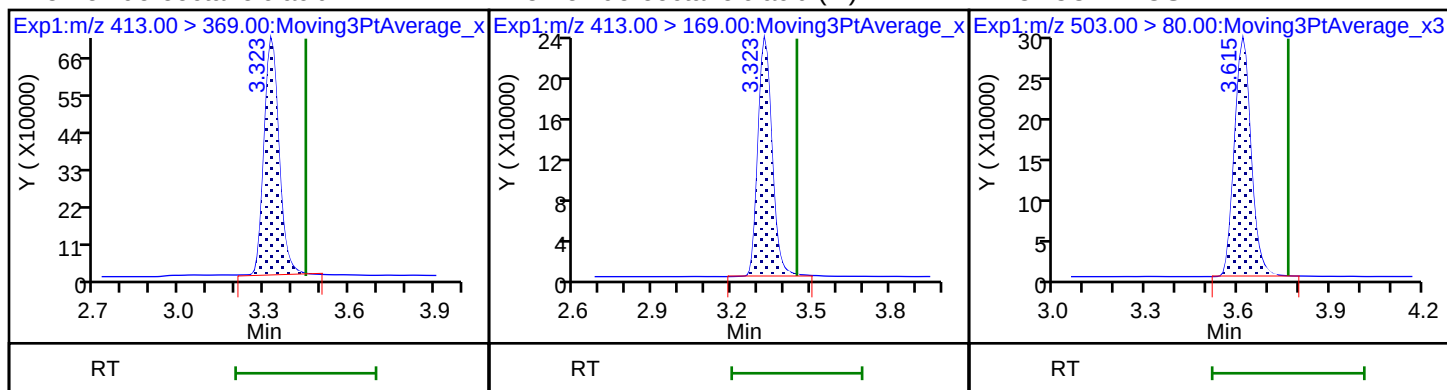
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

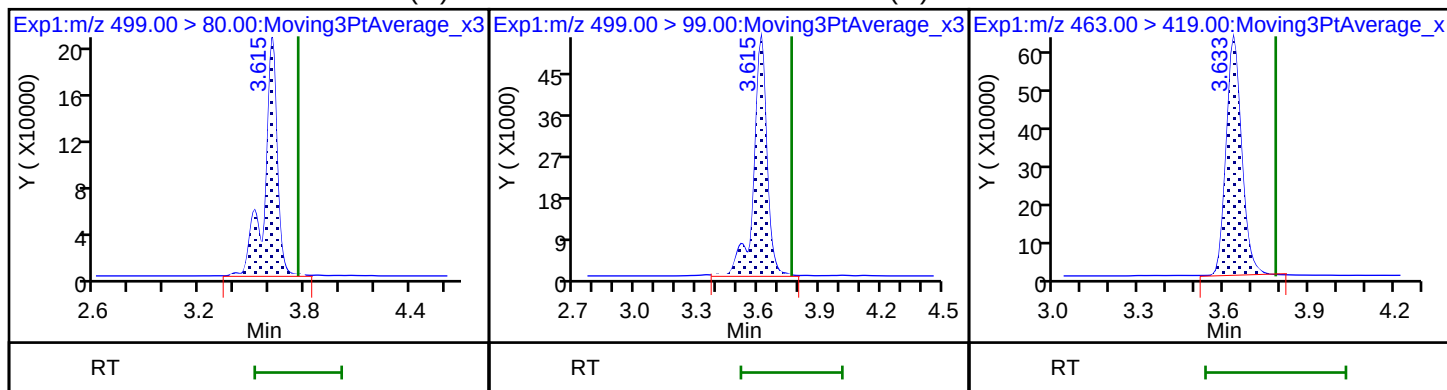
D 18 13C4 PFOS

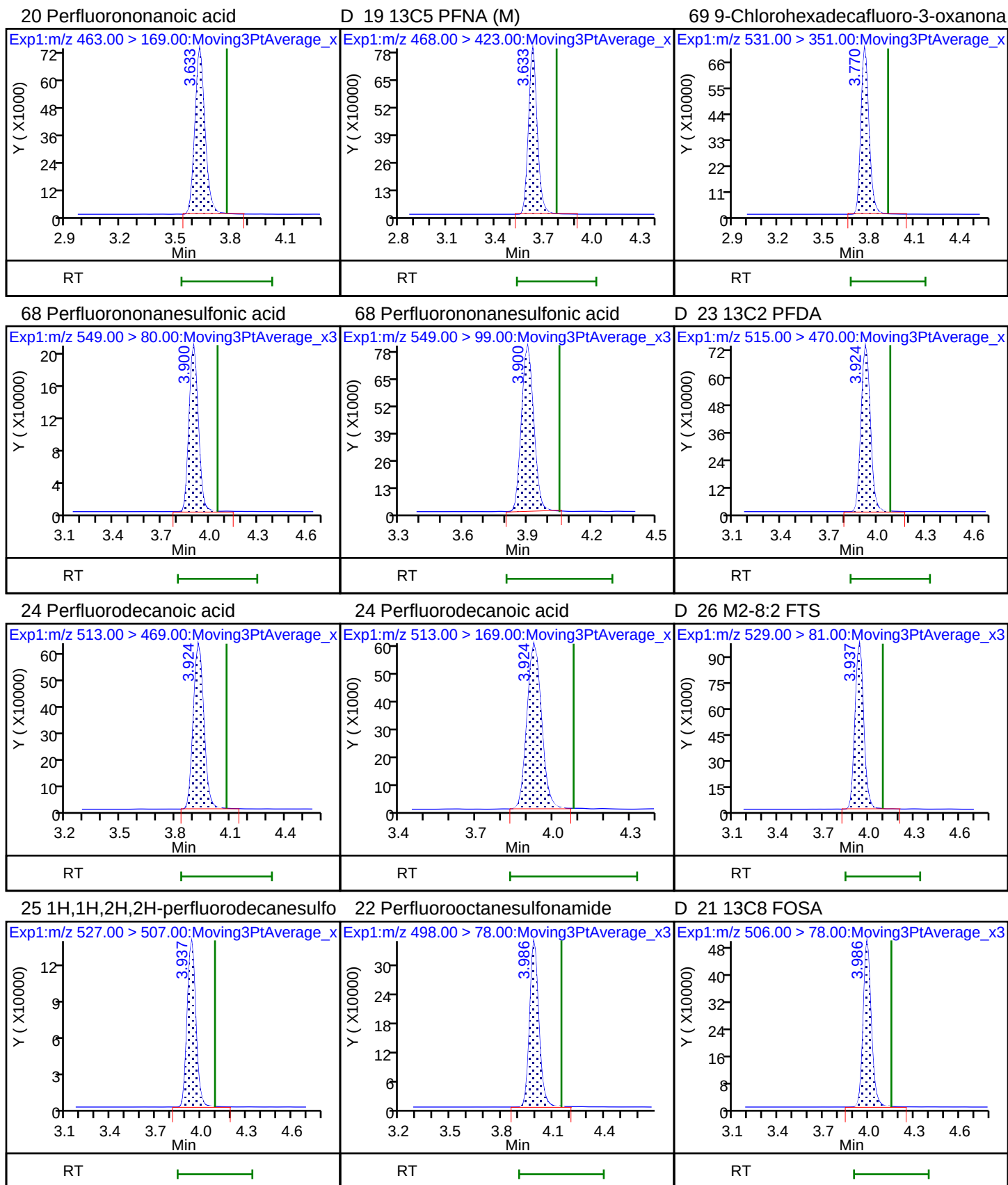


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

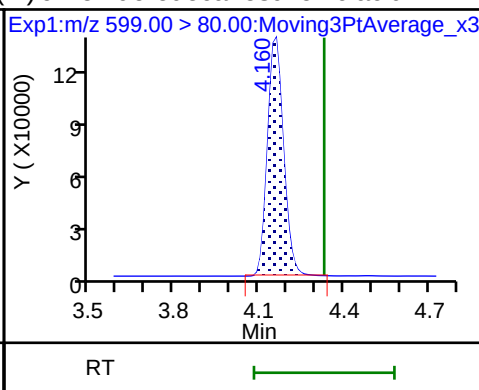
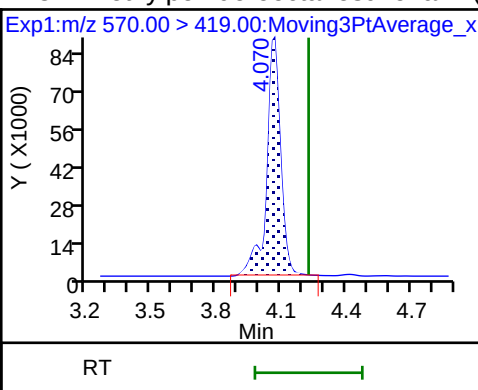
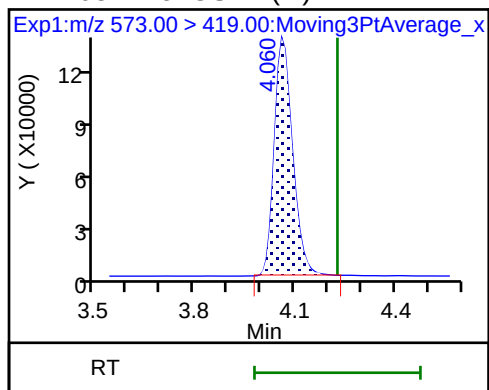




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

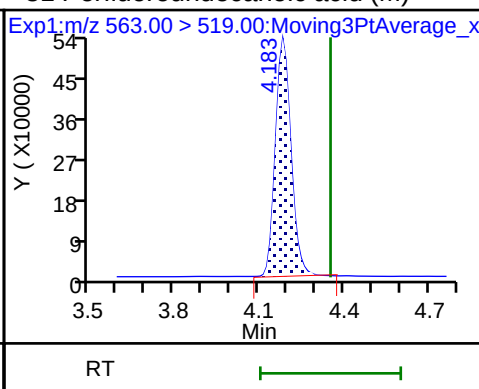
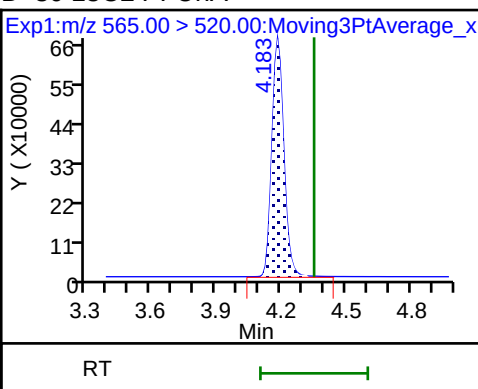
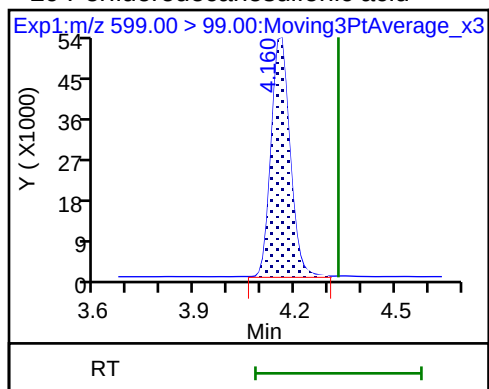
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

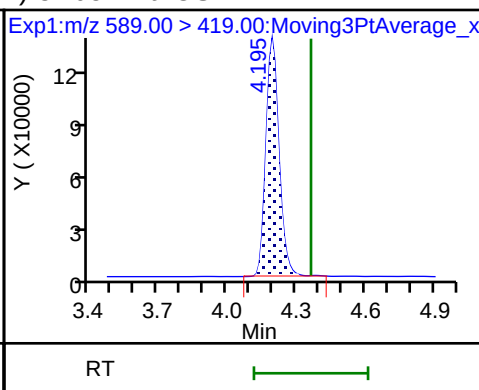
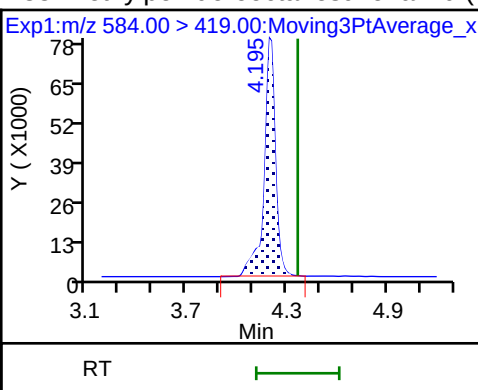
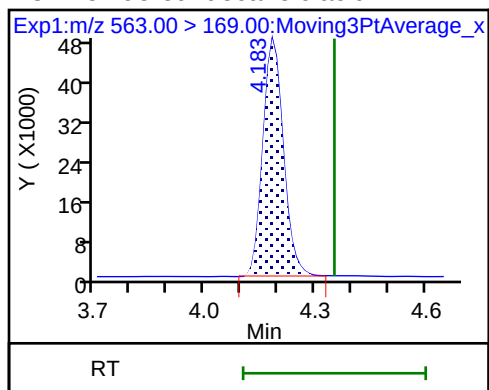
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

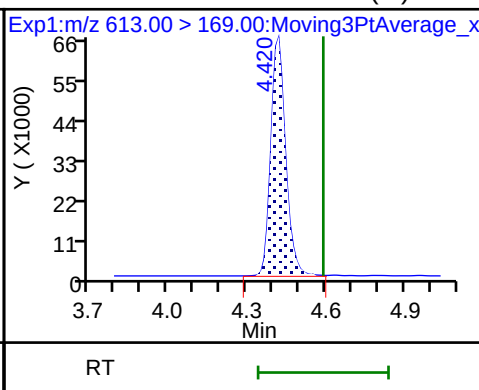
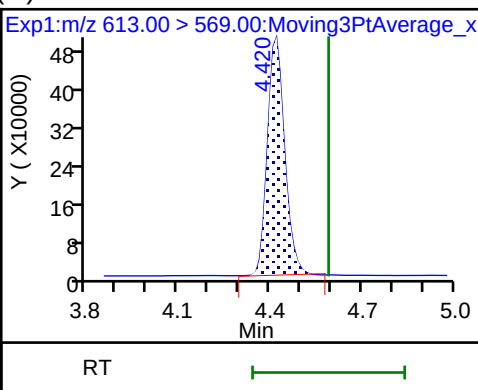
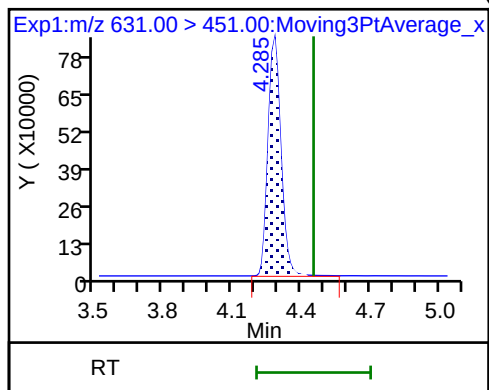
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec (M)

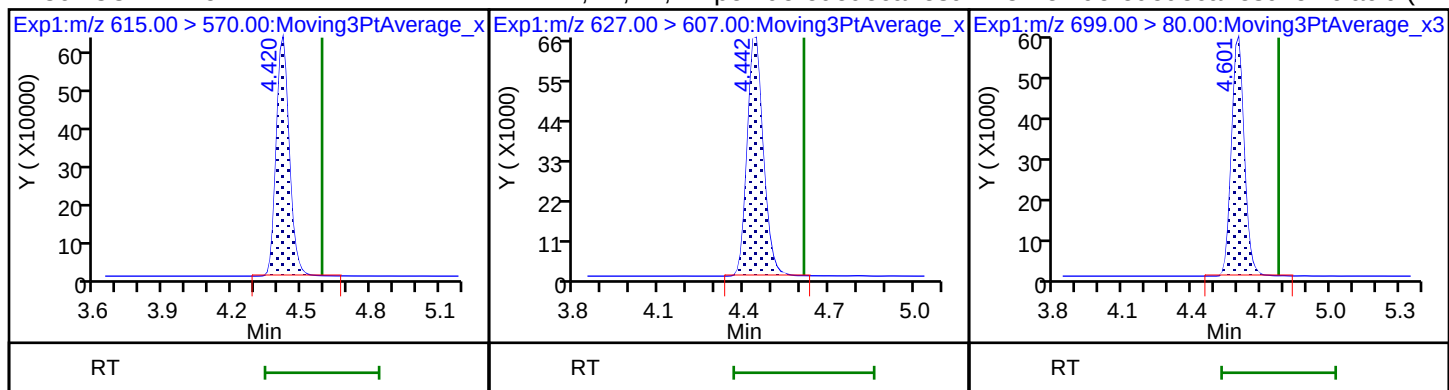
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

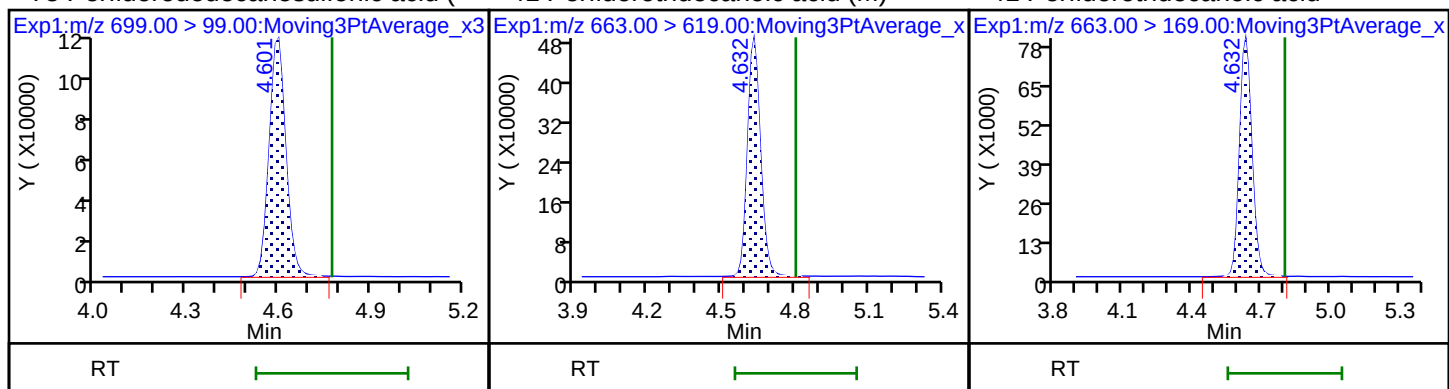
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

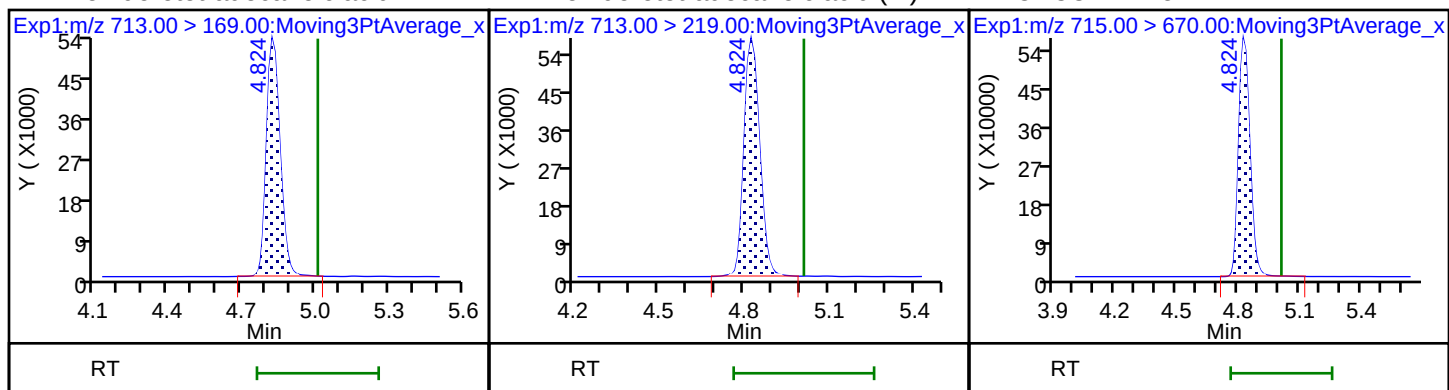
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

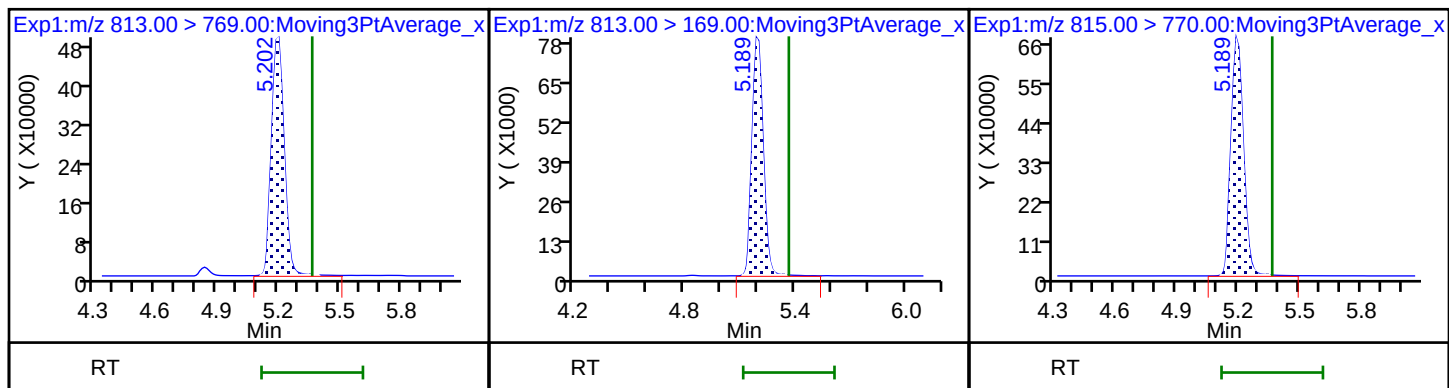
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

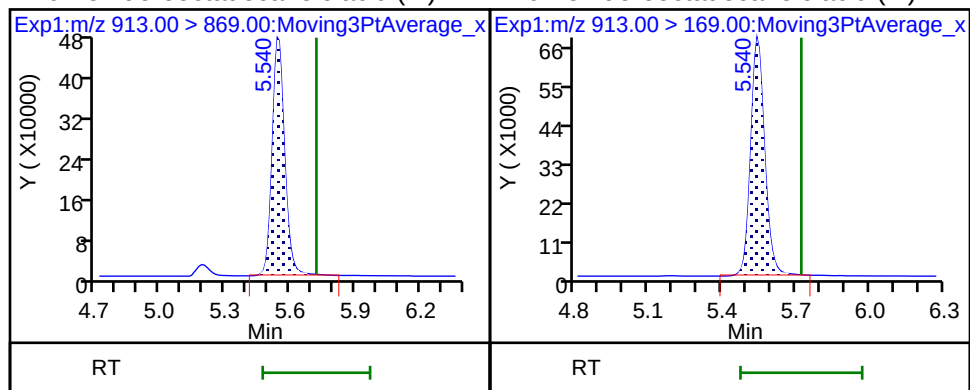
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

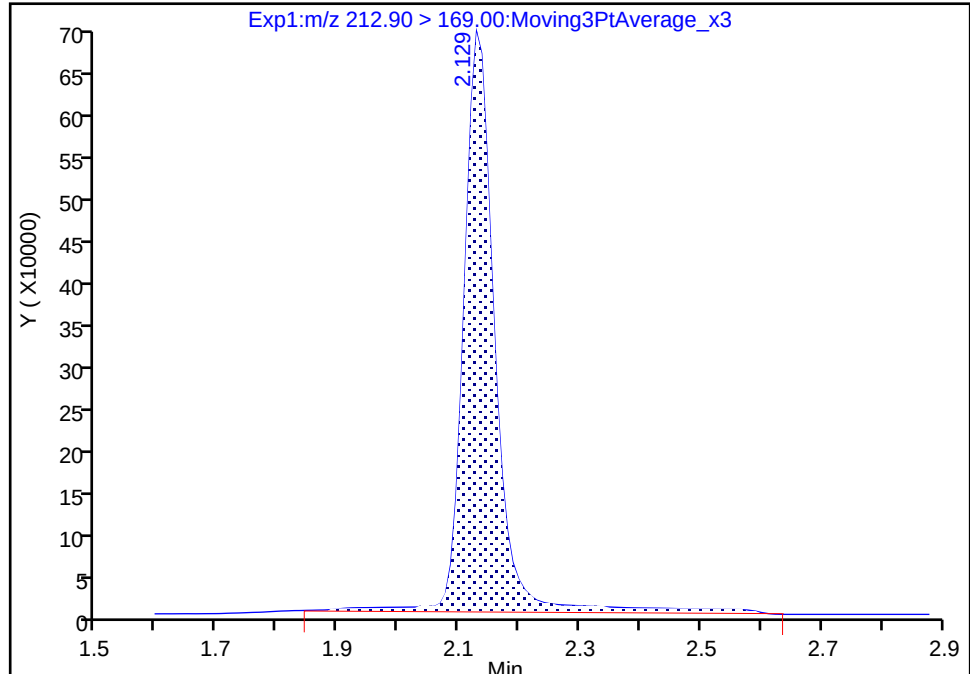
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

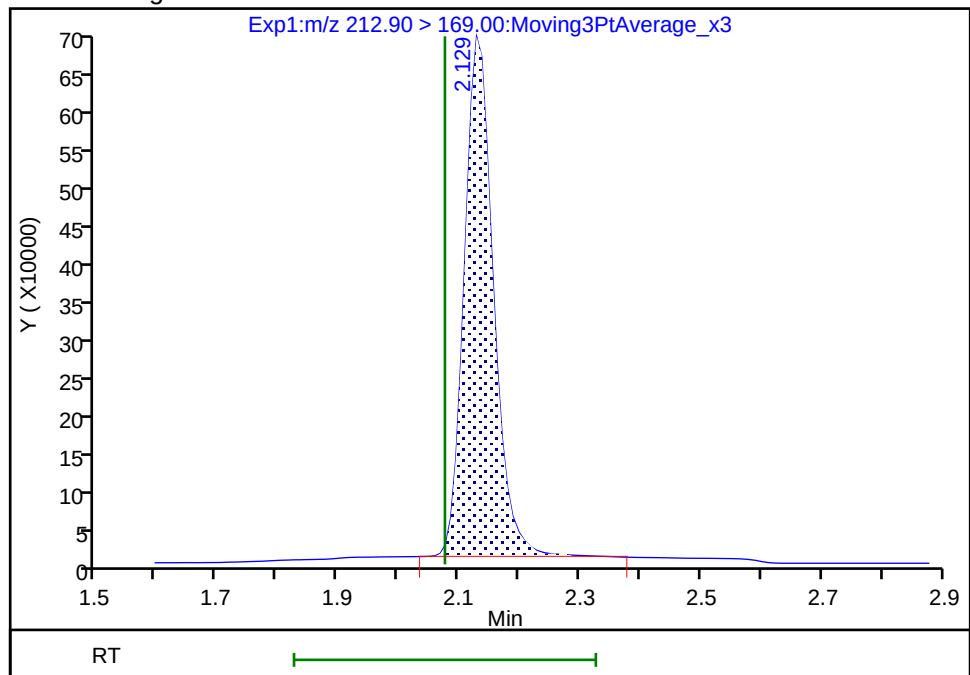
RT: 2.13
Area: 2549504
Amount: 1.076773
Amount Units: ng/ml

Processing Integration Results



RT: 2.13
Area: 2315381
Amount: 0.977892
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

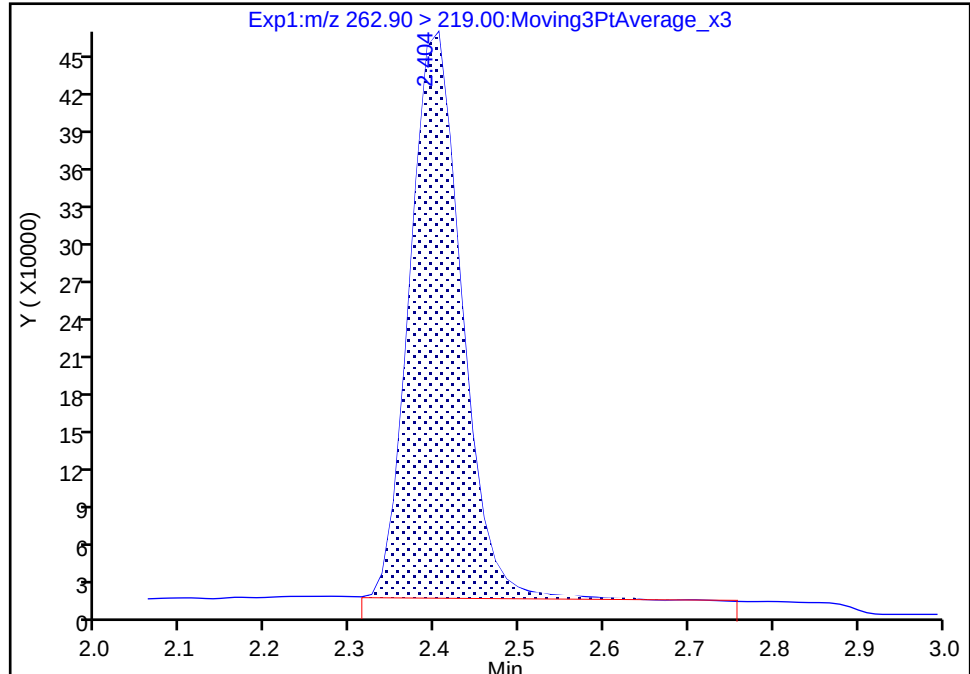
Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

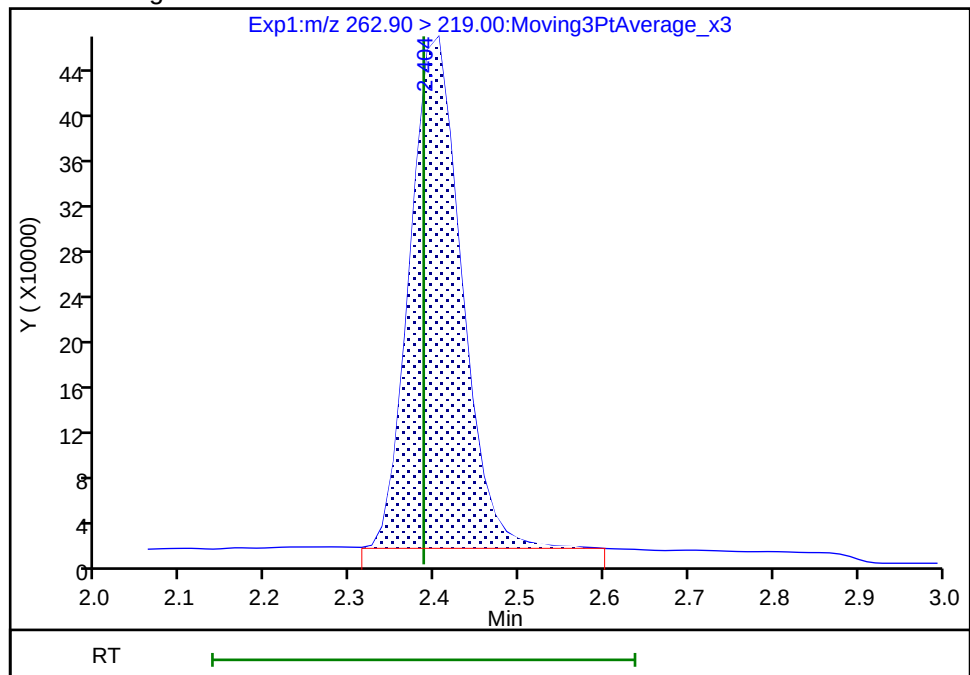
RT: 2.40
Area: 1910017
Amount: 0.983354
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1892503
Amount: 0.974337
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

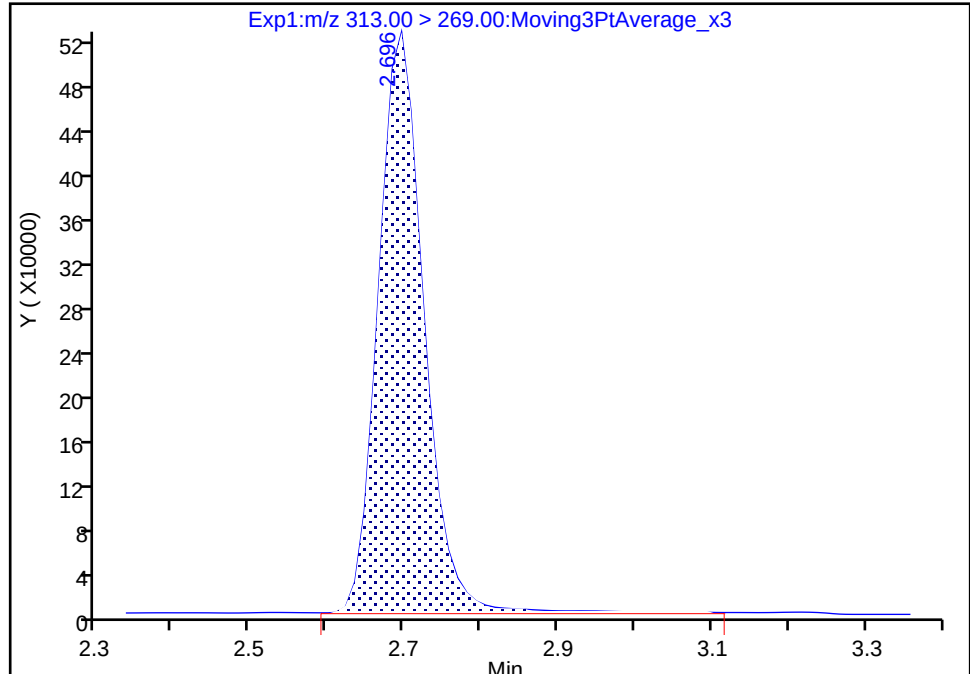
Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

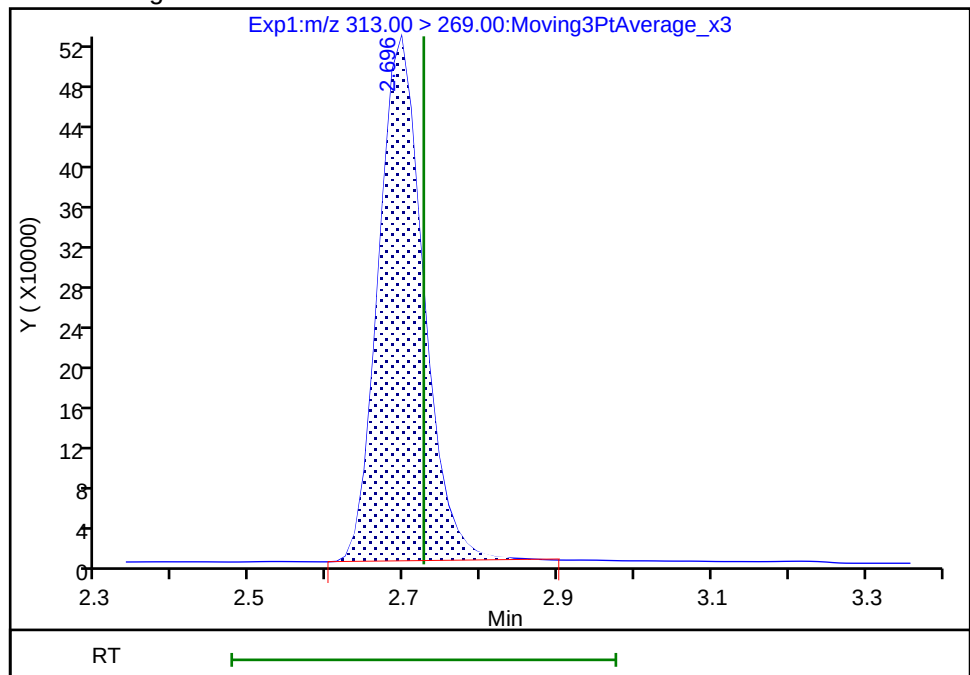
RT: 2.70
Area: 2161975
Amount: 0.957420
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 2136106
Amount: 0.945964
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

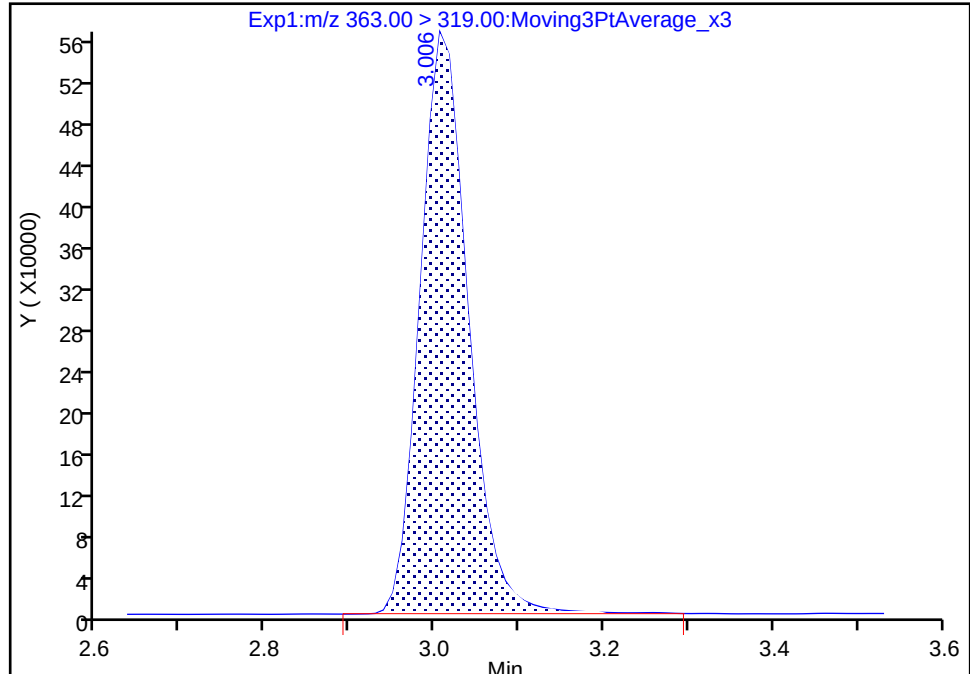
Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

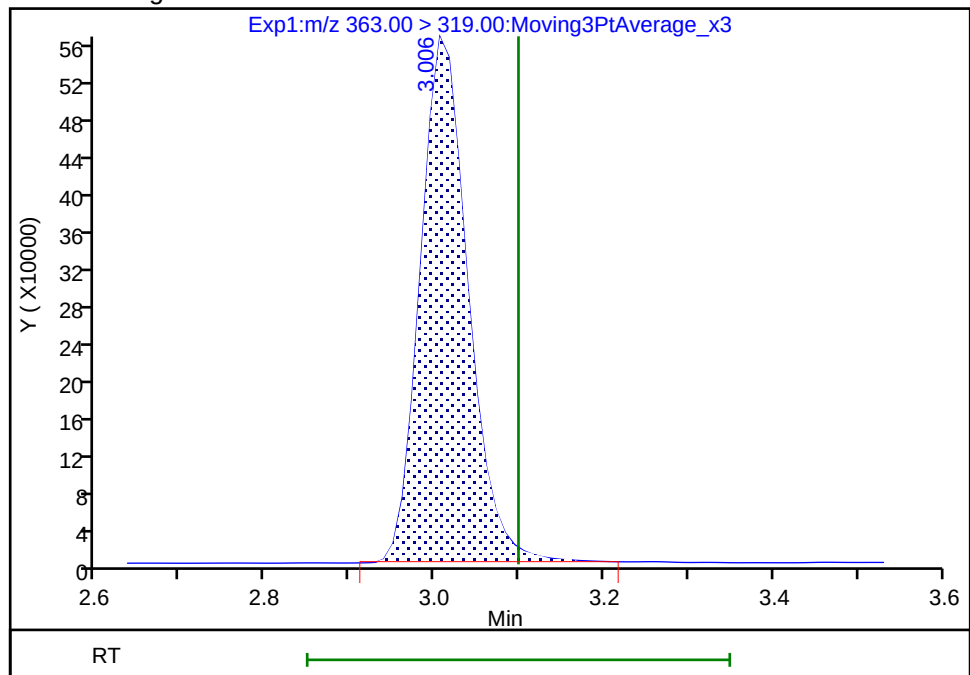
RT: 3.01
Area: 2246348
Amount: 0.923420
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 2233756
Amount: 0.918243
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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

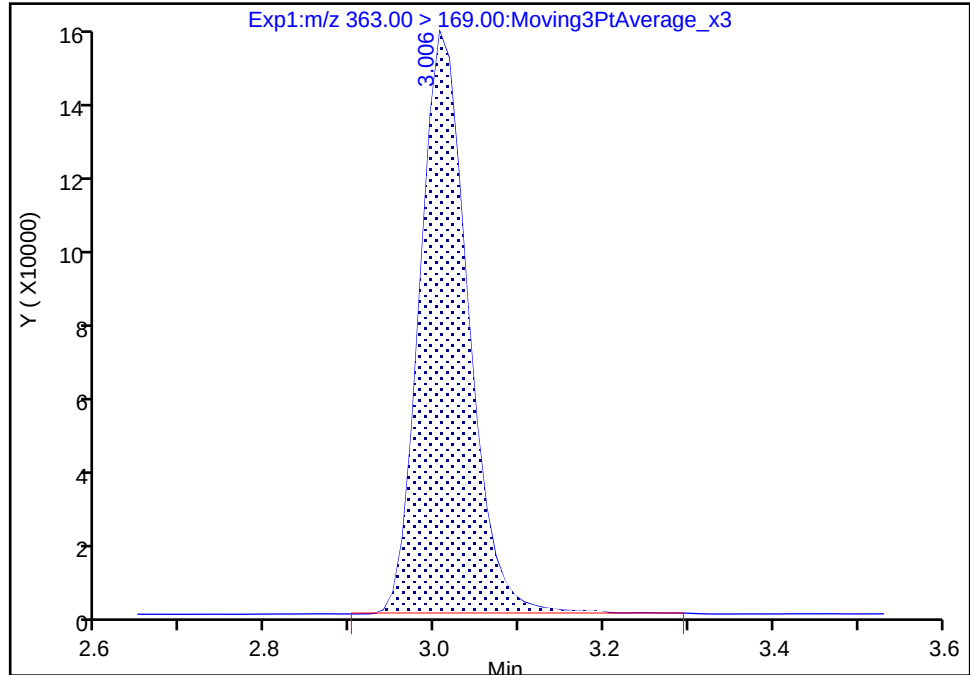
EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

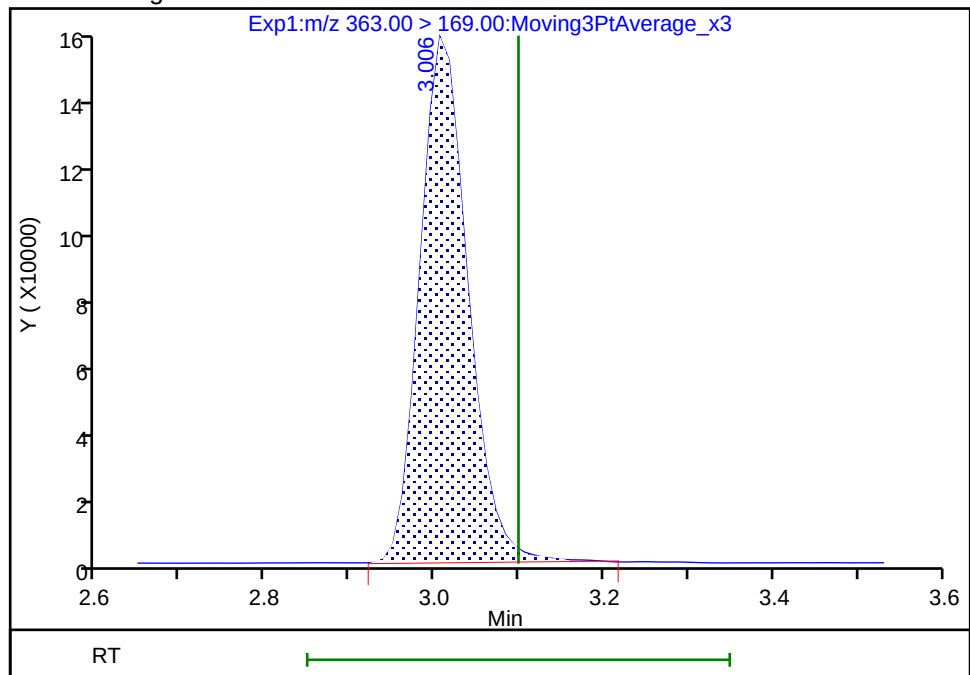
RT: 3.01
Area: 595128
Amount: 0.923420
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 593859
Amount: 0.918243
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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

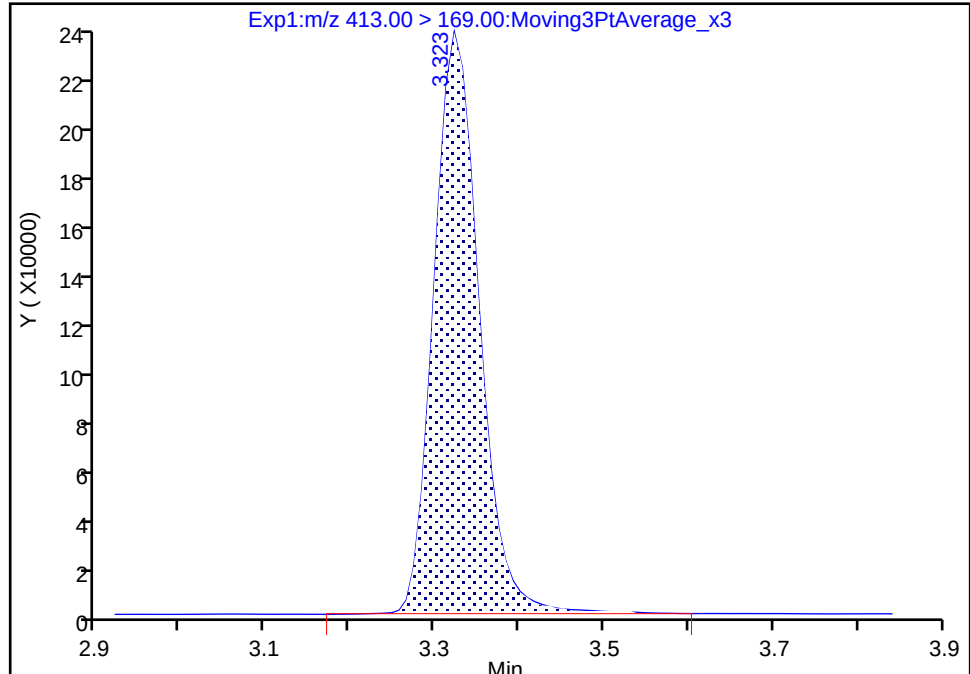
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

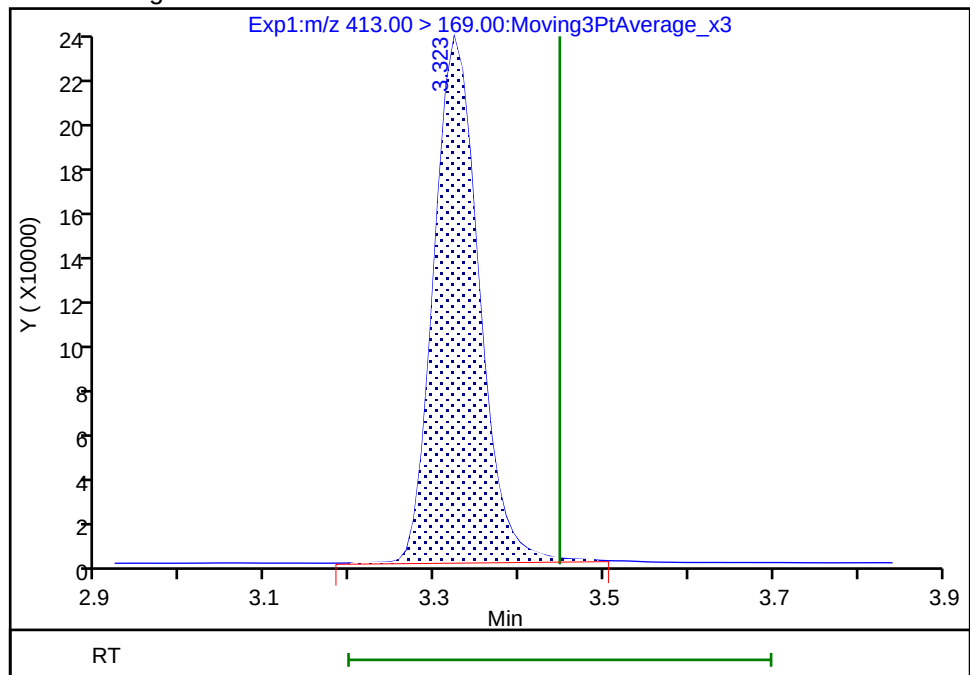
RT: 3.32
Area: 882810
Amount: 1.038235
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 871943
Amount: 1.038235
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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

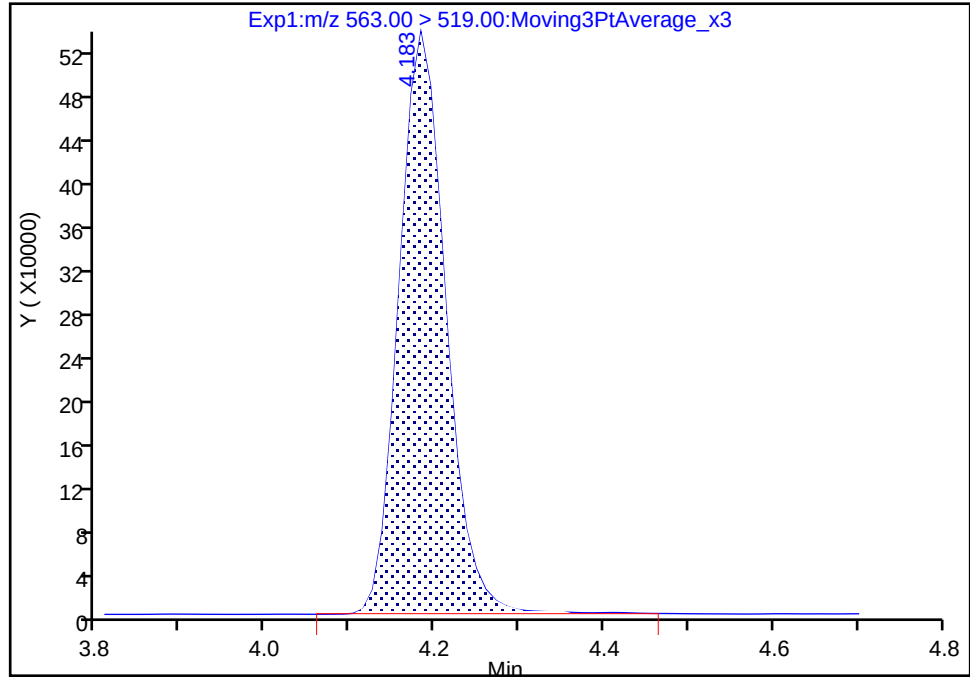
EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

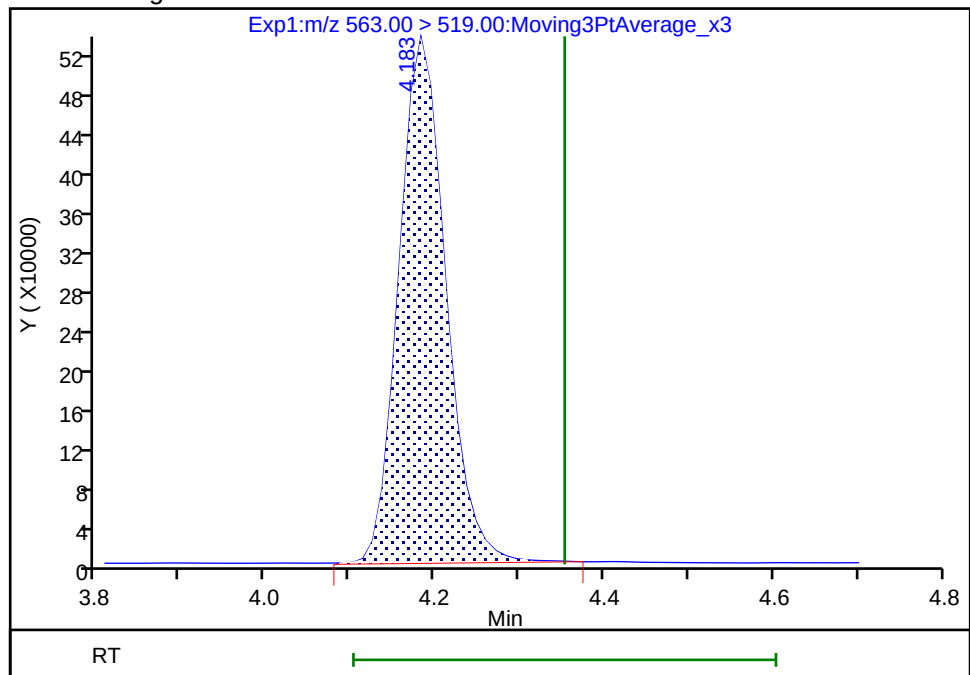
RT: 4.18
Area: 2073391
Amount: 0.995308
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 2062463
Amount: 0.990062
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

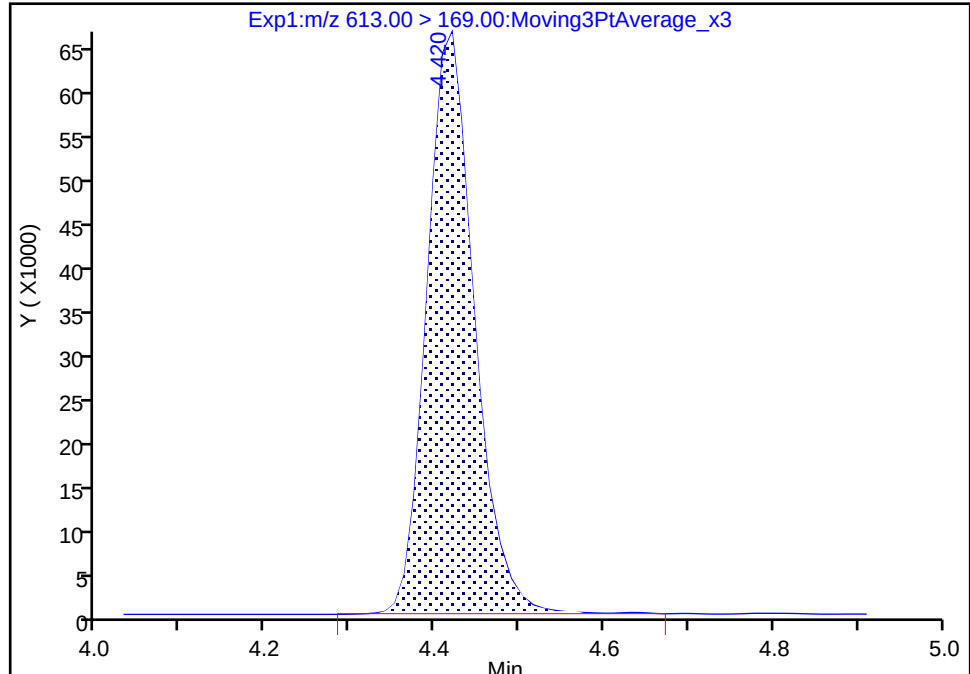
Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

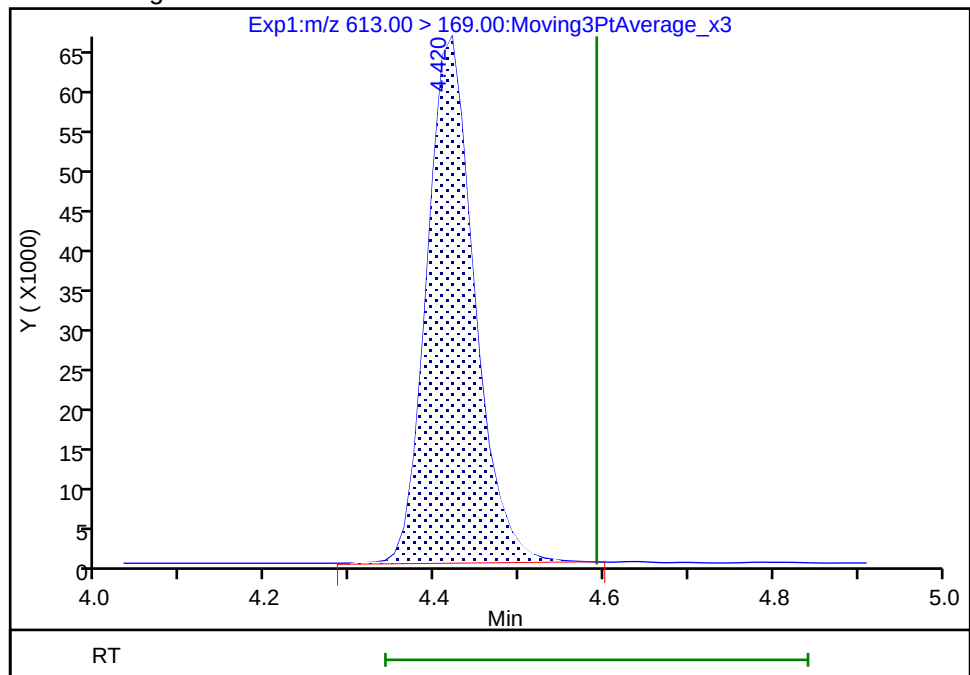
RT: 4.42
Area: 259360
Amount: 0.939480
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 258277
Amount: 0.939480
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

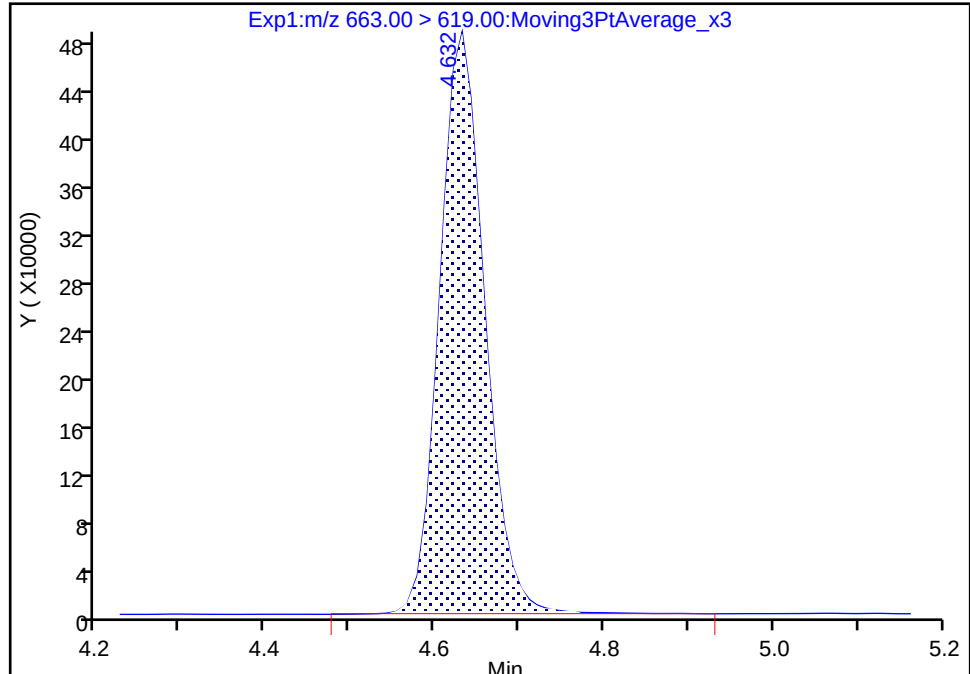
Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

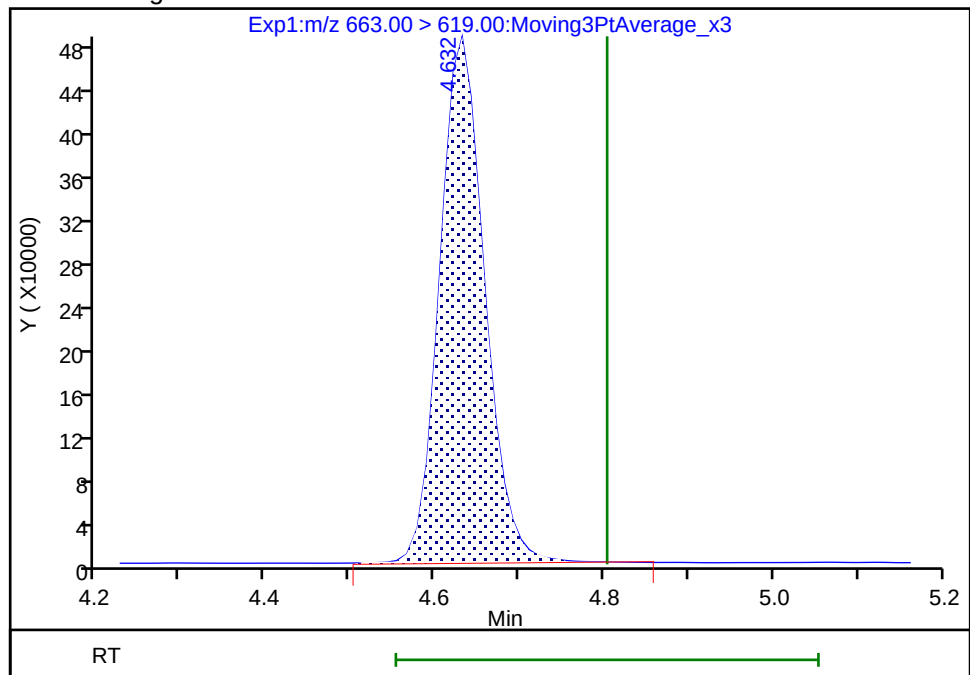
RT: 4.63
Area: 1776403
Amount: 0.883607
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 1770504
Amount: 0.880673
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

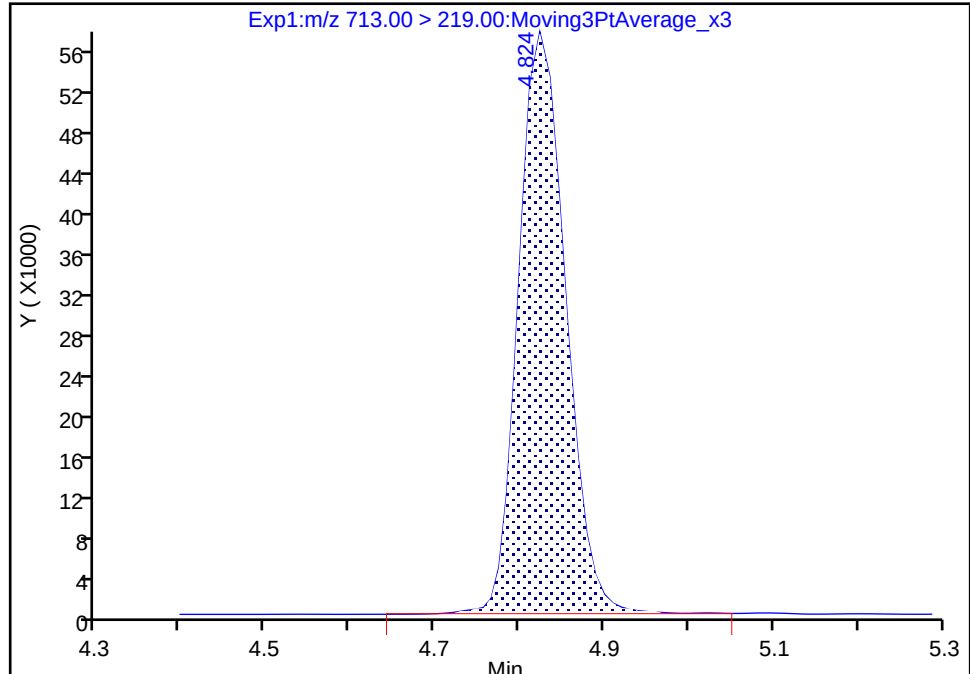
Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

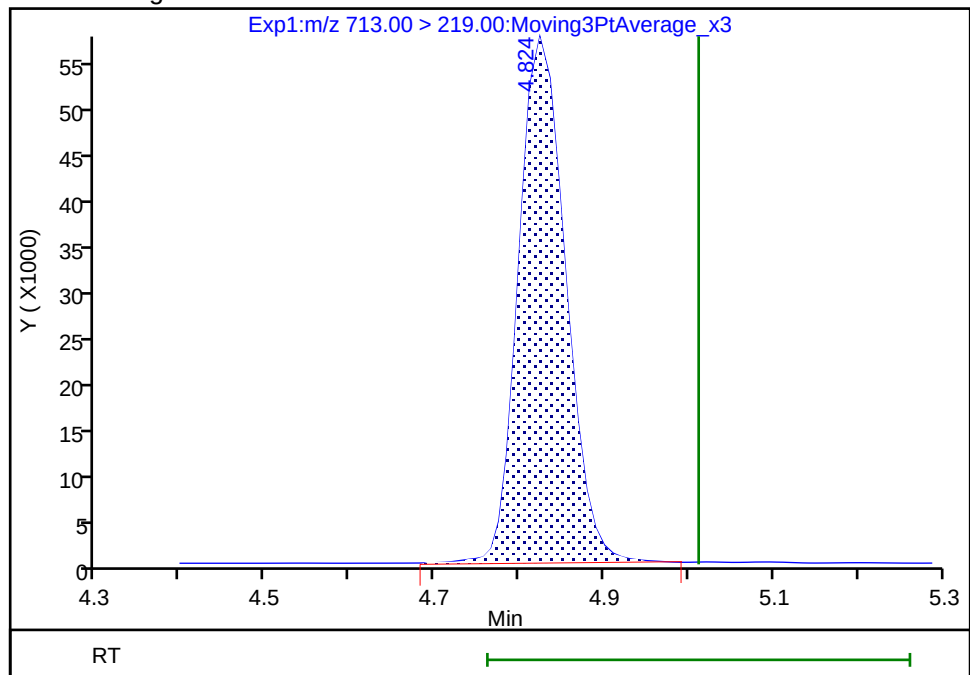
RT: 4.82
Area: 224590
Amount: 0.867038
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 223165
Amount: 0.867038
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

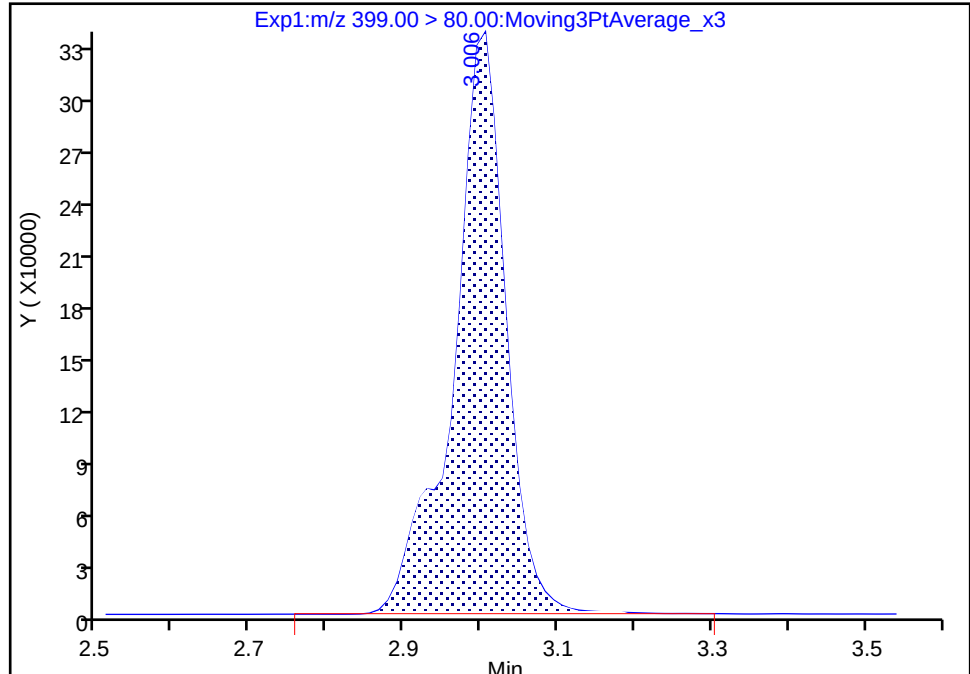
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

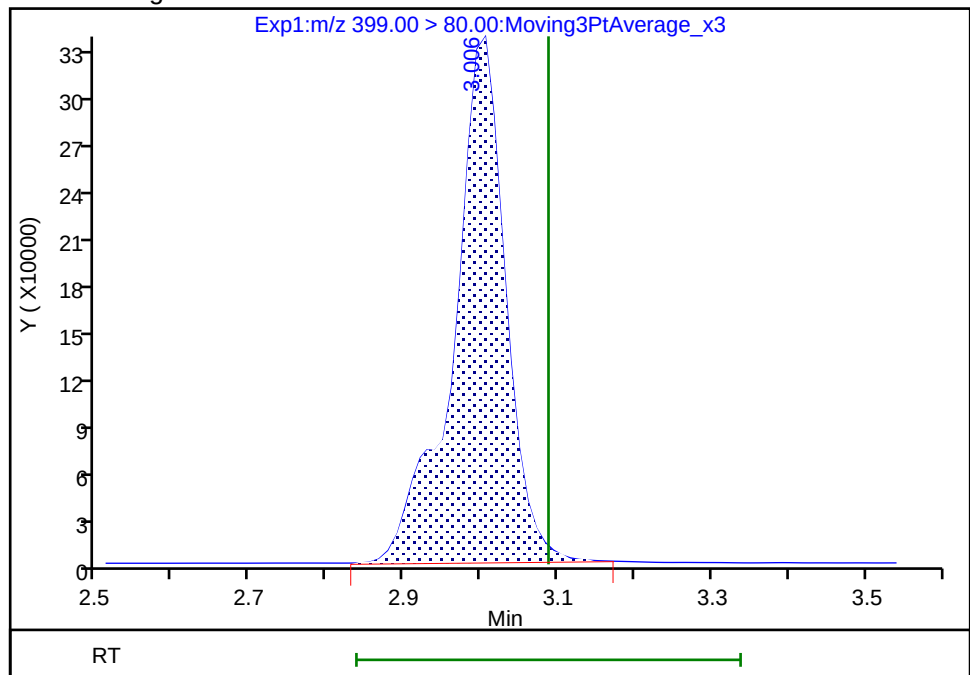
RT: 3.01
Area: 1601138
Amount: 0.947408
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 1588291
Amount: 0.939806
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

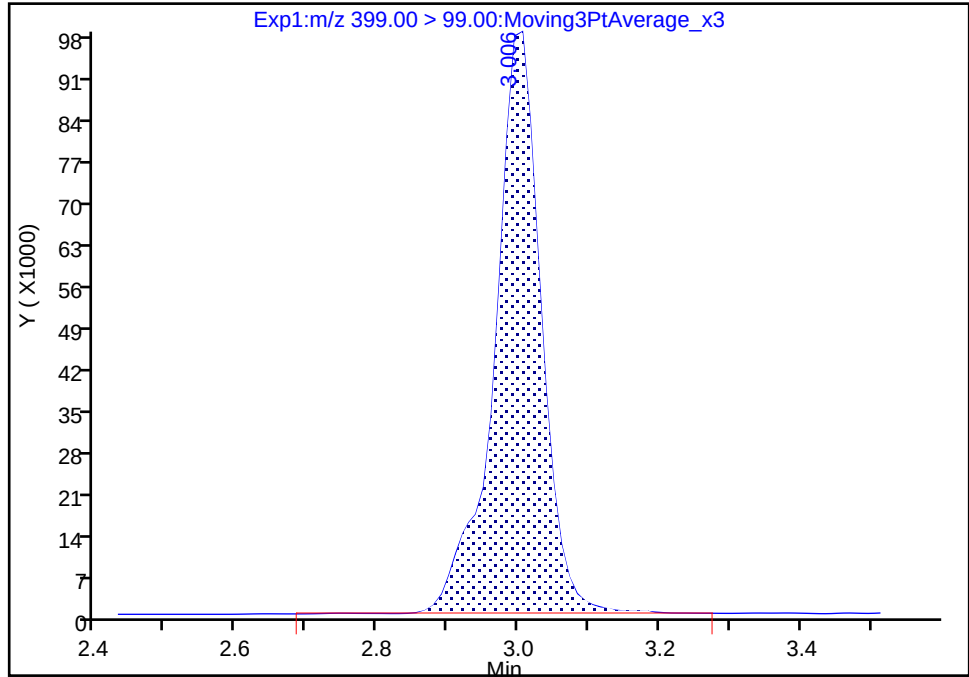
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d
Injection Date: 30-Dec-2022 22:41:59 Instrument ID: LC812
Lims ID: LCS 200-187142/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

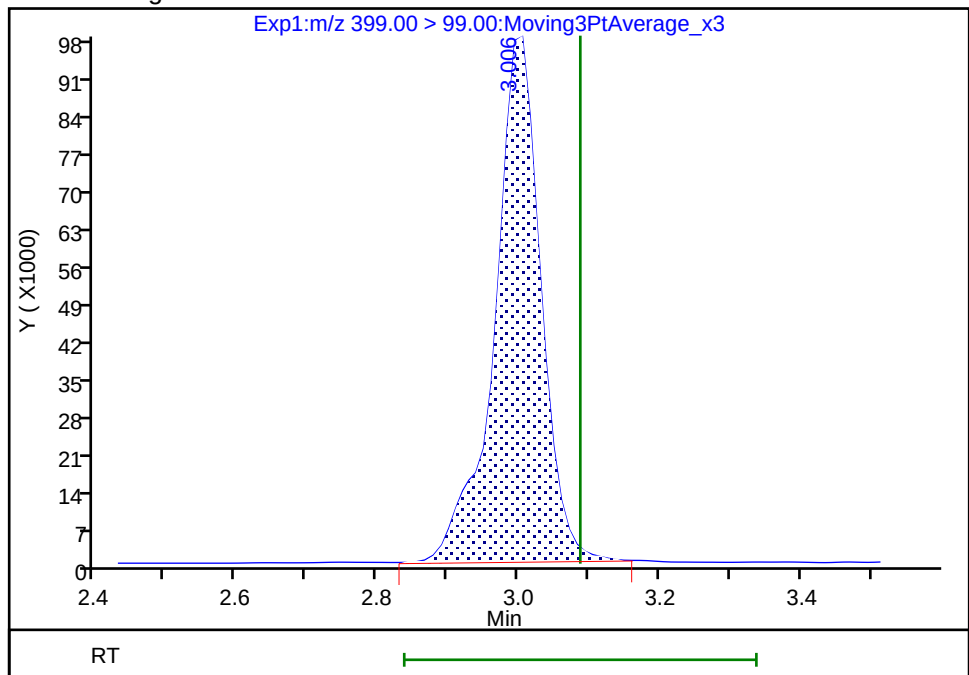
RT: 3.01
Area: 453762
Amount: 0.947408
Amount Units: ng/ml

Processing Integration Results



RT: 3.01
Area: 448348
Amount: 0.939806
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1021 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

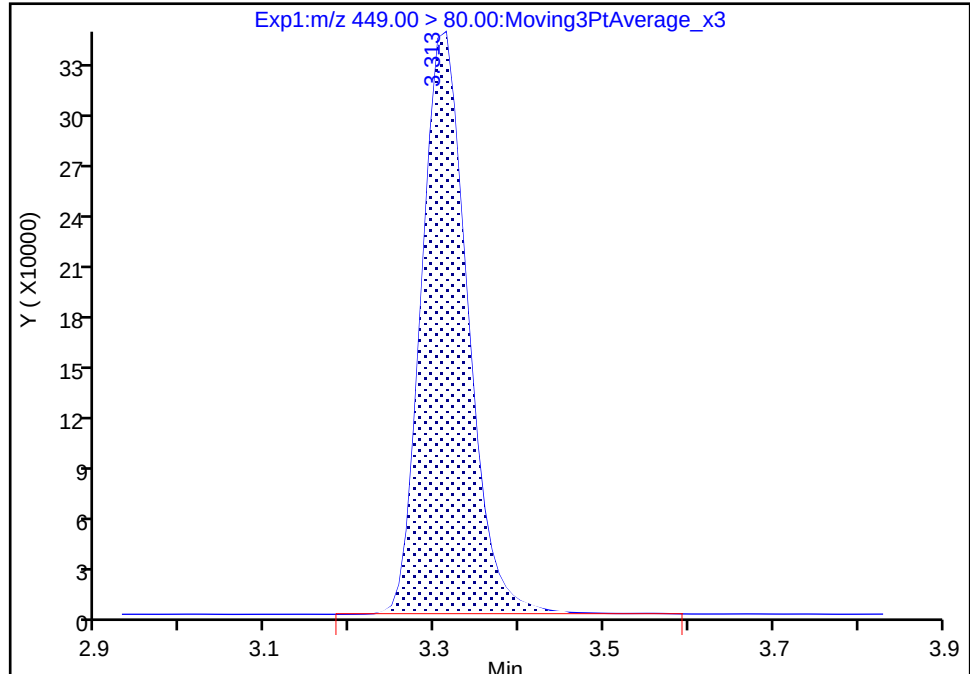
Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

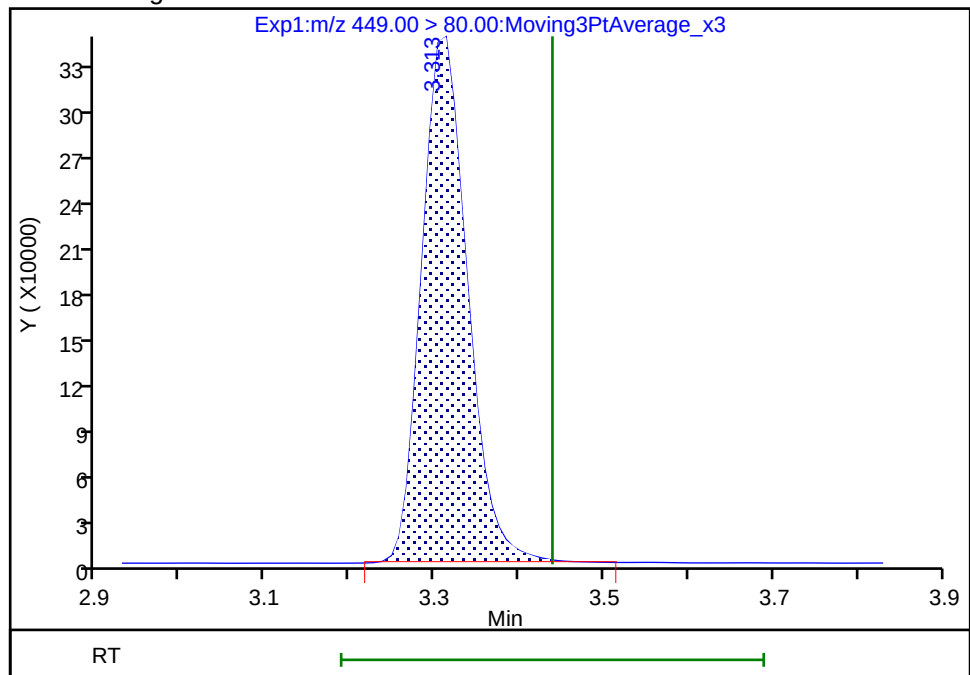
RT: 3.31
Area: 1321148
Amount: 1.009854
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 1316414
Amount: 1.006236
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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

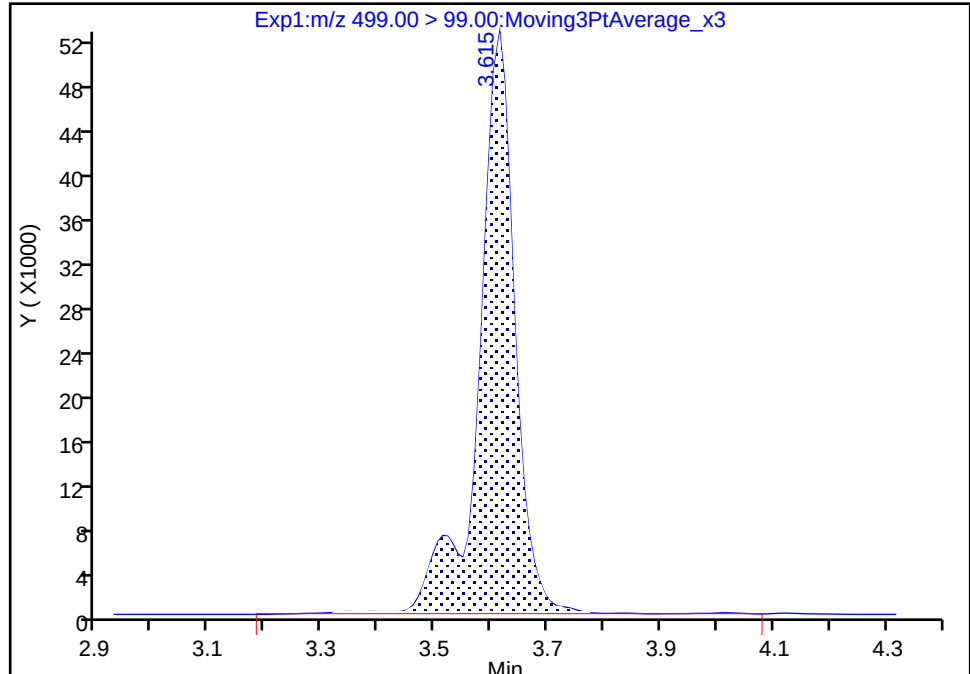
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

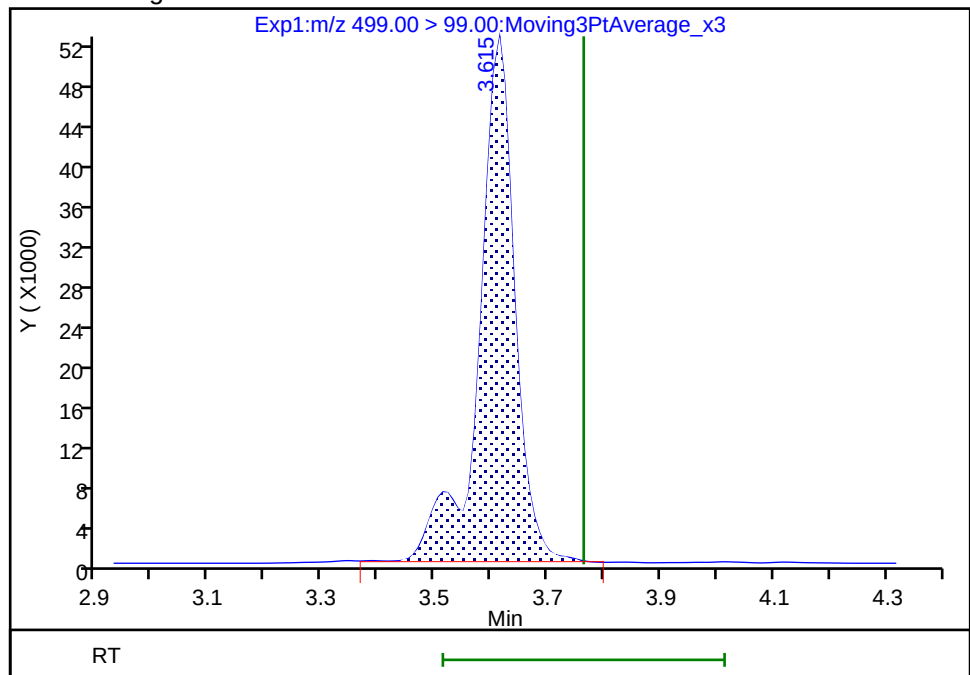
RT: 3.61
Area: 236693
Amount: 0.926751
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 233376
Amount: 0.914048
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

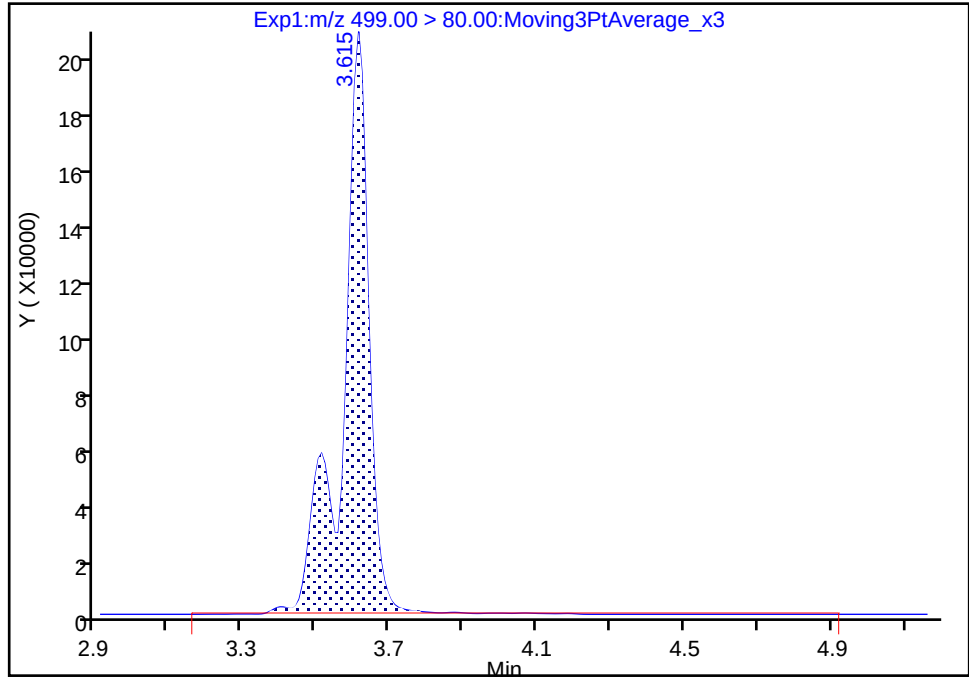
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d
Injection Date: 30-Dec-2022 22:41:59 Instrument ID: LC812
Lims ID: LCS 200-187142/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

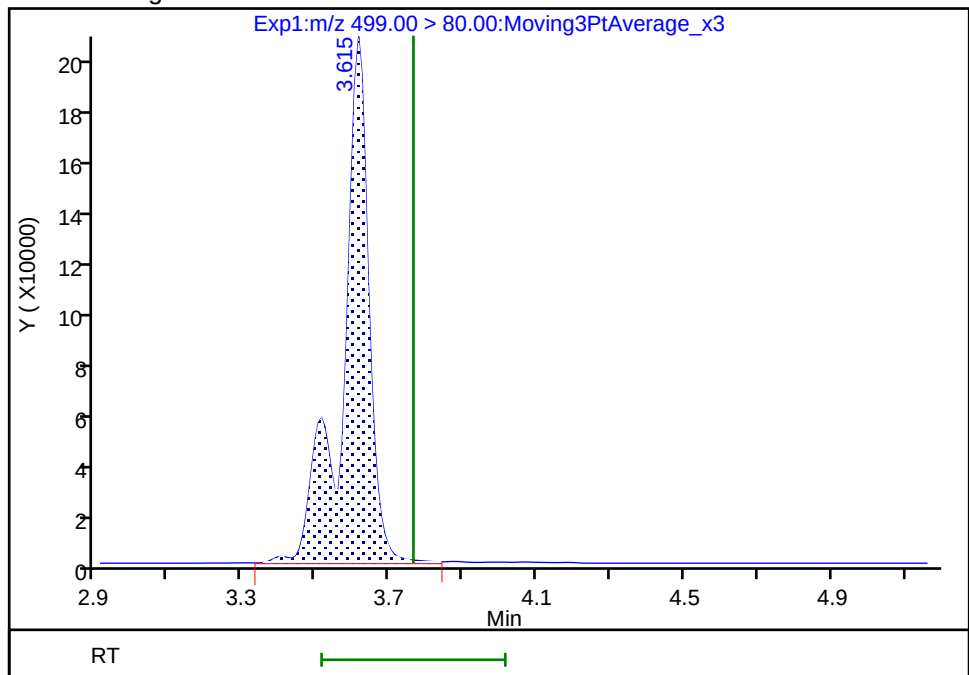
RT: 3.61
Area: 1055675
Amount: 0.926751
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 1041205
Amount: 0.914048
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

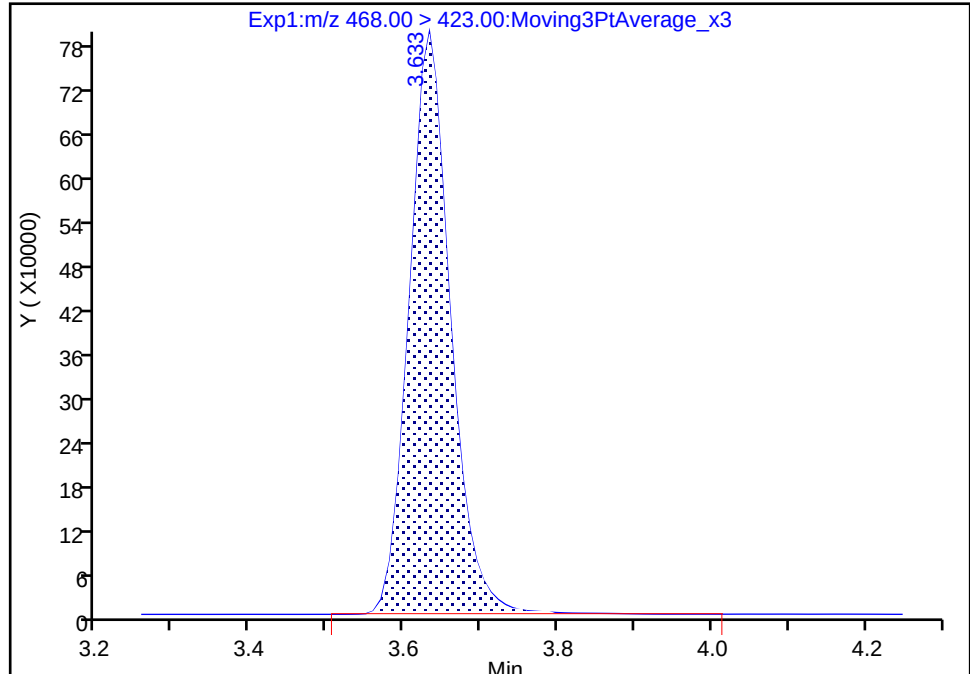
Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

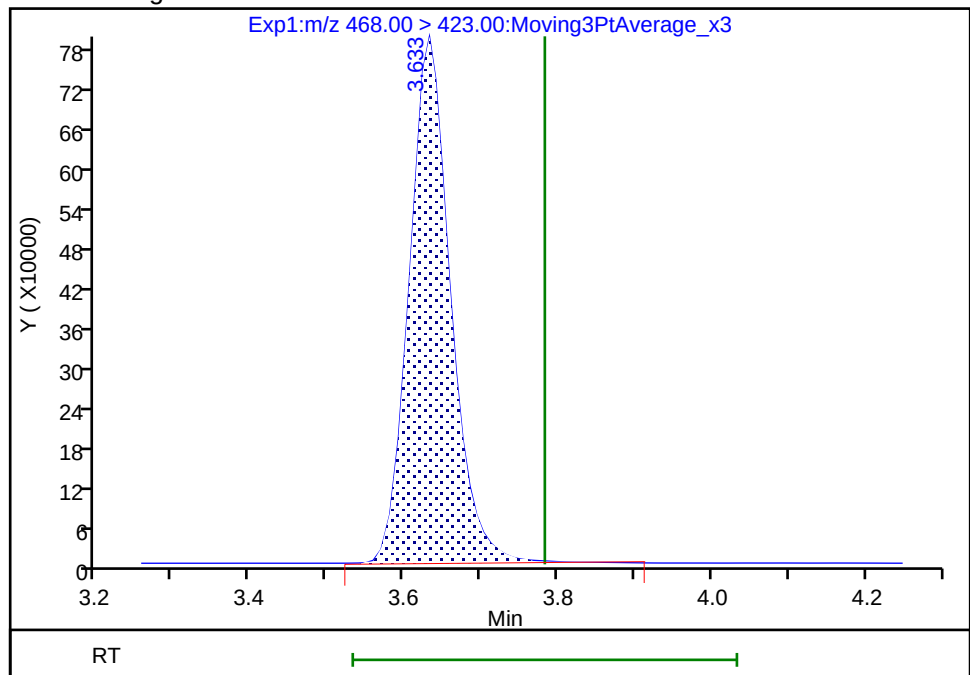
RT: 3.63
Area: 2964702
Amount: 1.278885
Amount Units: ng/ml

Processing Integration Results



RT: 3.63
Area: 2959903
Amount: 1.276815
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

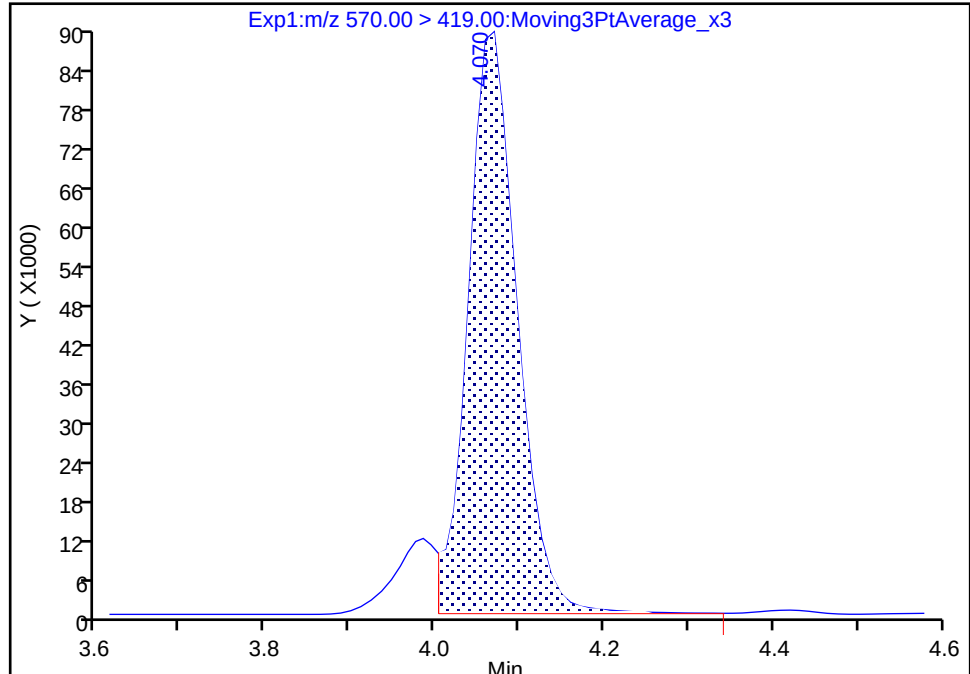
Detector: EXP1

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

Signal: 1

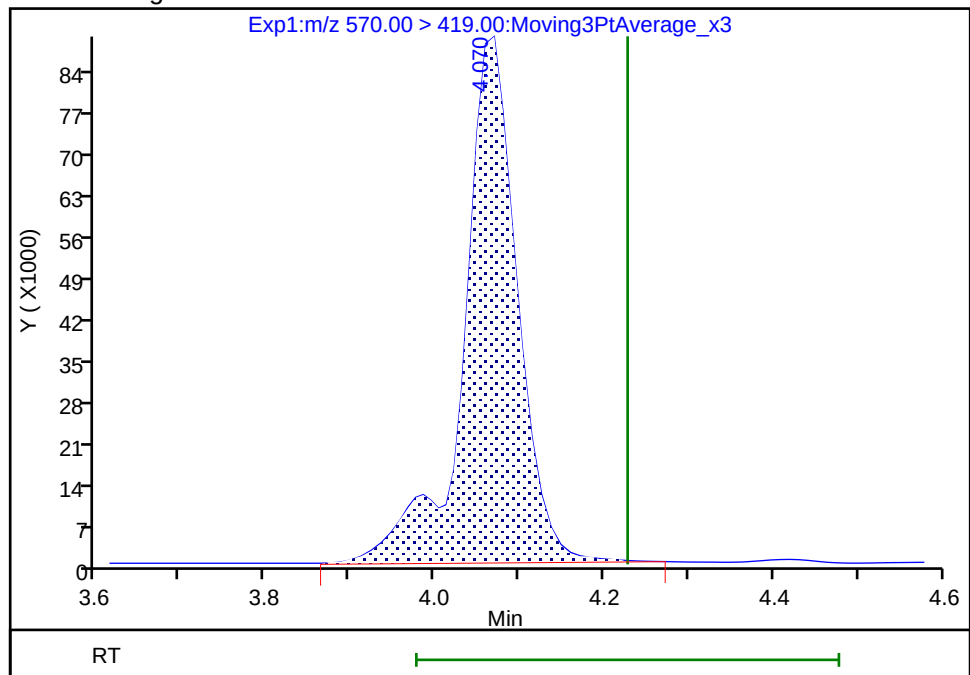
RT: 4.07
Area: 359919
Amount: 0.974223
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 394819
Amount: 1.069818
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

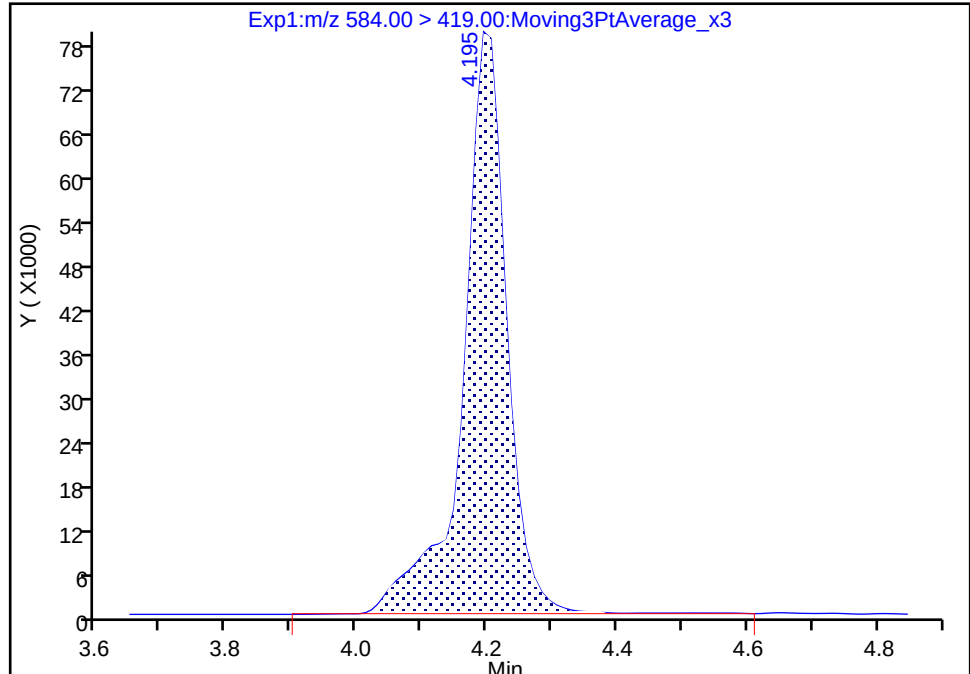
Detector: EXP1

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

Signal: 1

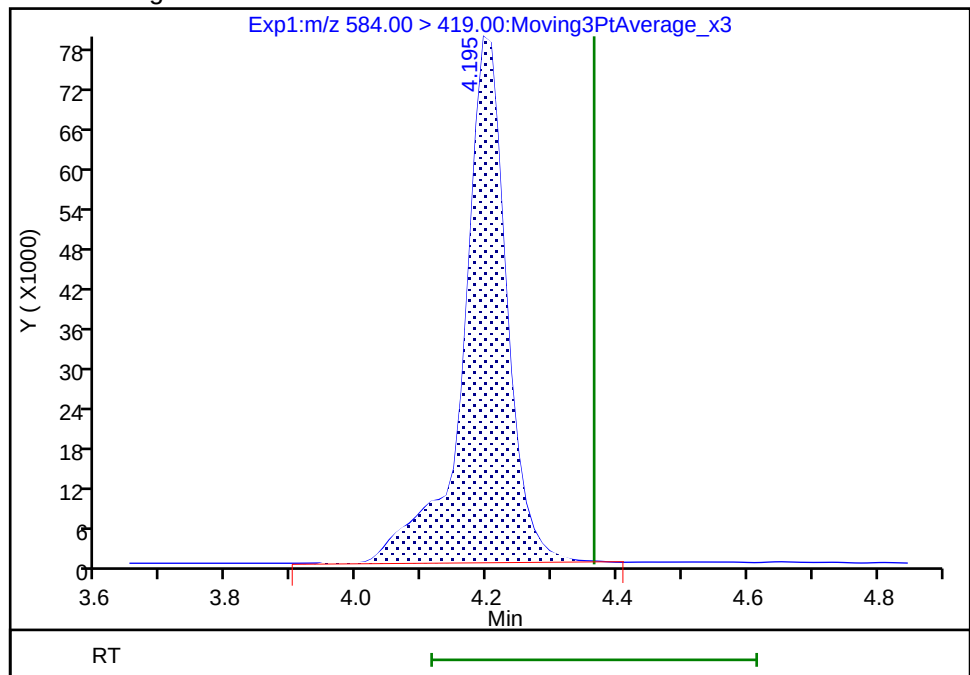
RT: 4.19
Area: 373197
Amount: 0.973529
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 368913
Amount: 0.962354
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:01:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

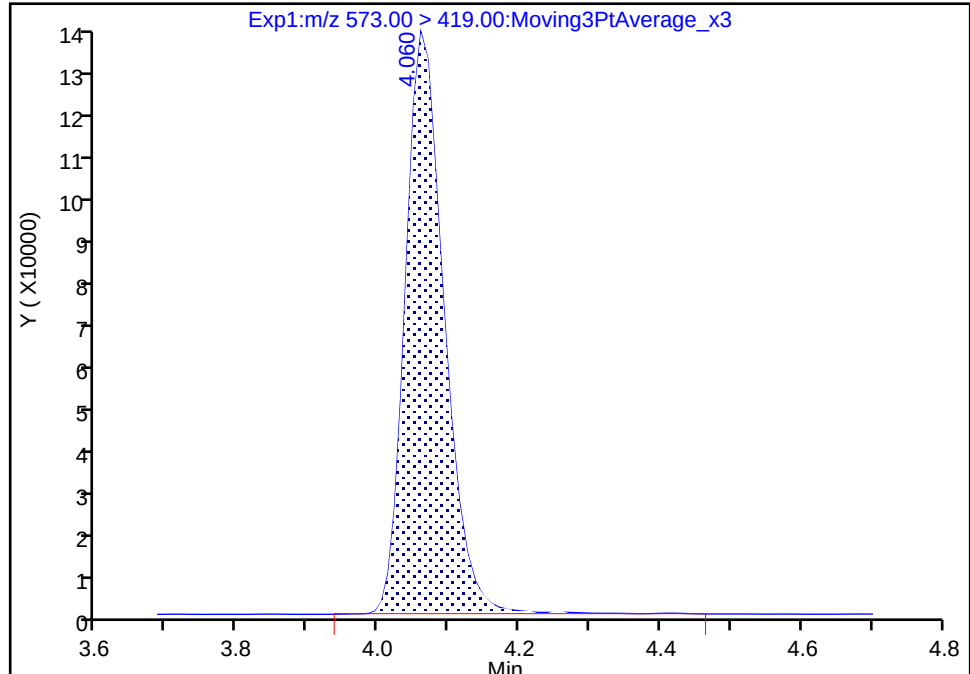
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

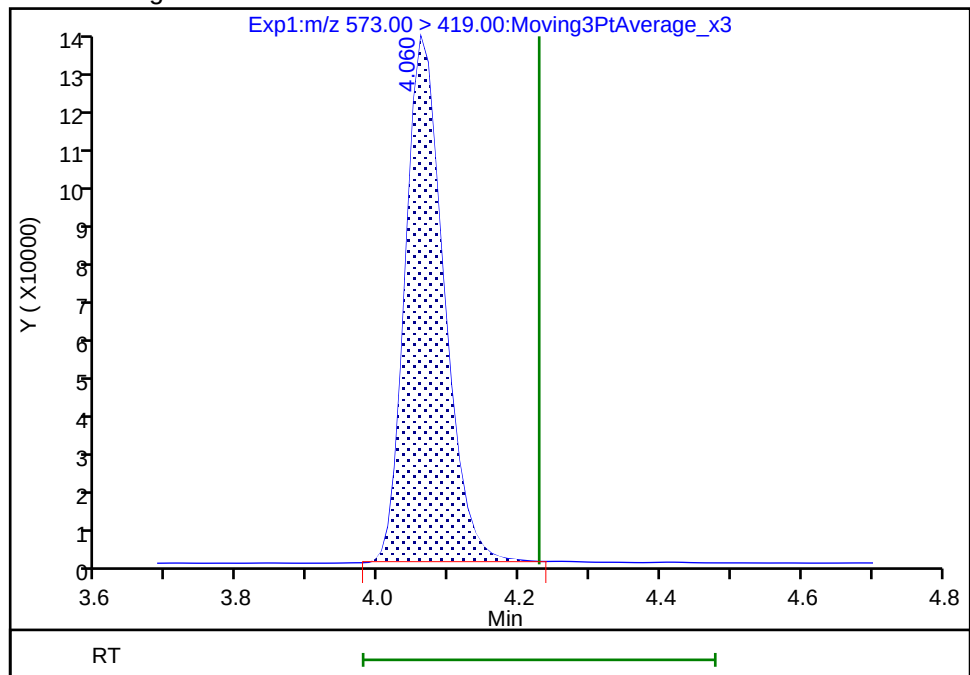
RT: 4.06
Area: 535351
Amount: 1.113027
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 530496
Amount: 1.102933
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:59:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

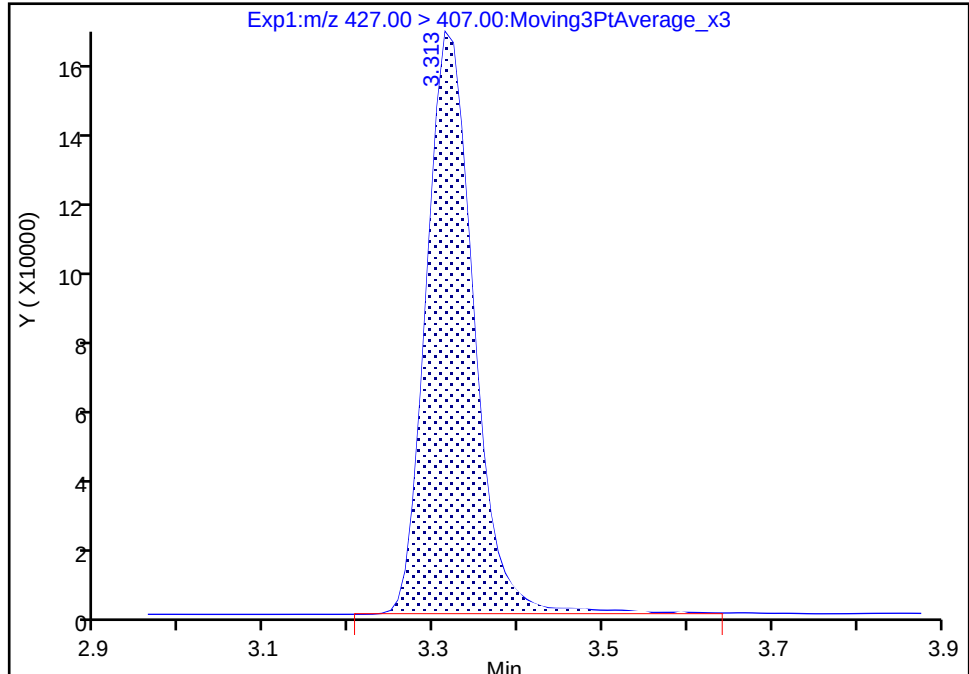
Detector: EXP1

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

Signal: 1

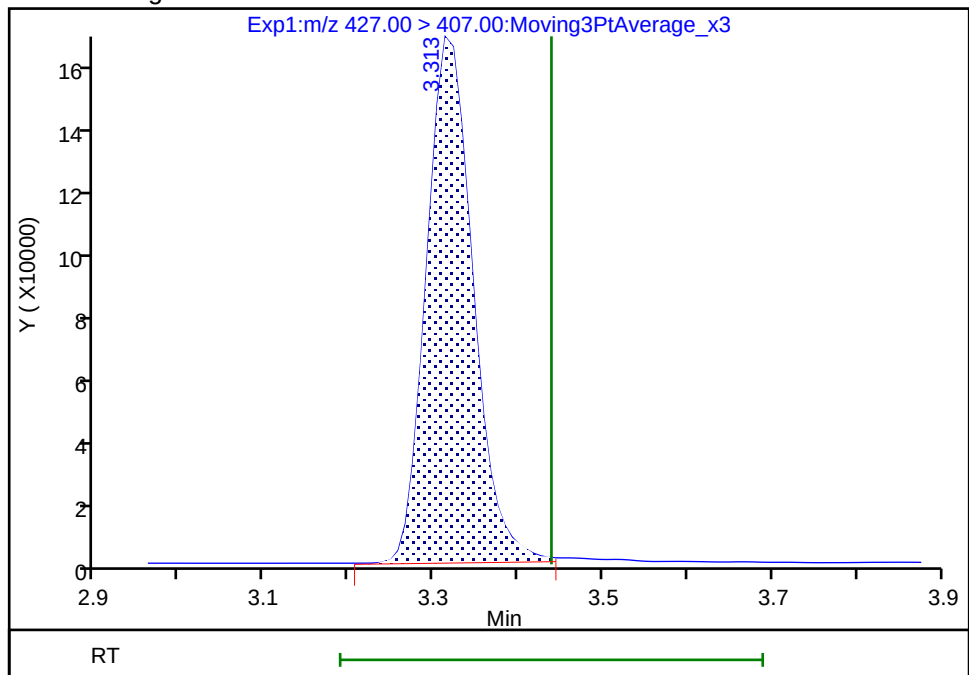
RT: 3.31
Area: 652261
Amount: 1.035737
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 644670
Amount: 1.023545
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:00:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C03.d

Injection Date: 30-Dec-2022 22:41:59

Instrument ID: LC812

Lims ID: LCS 200-187142/2-A

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)

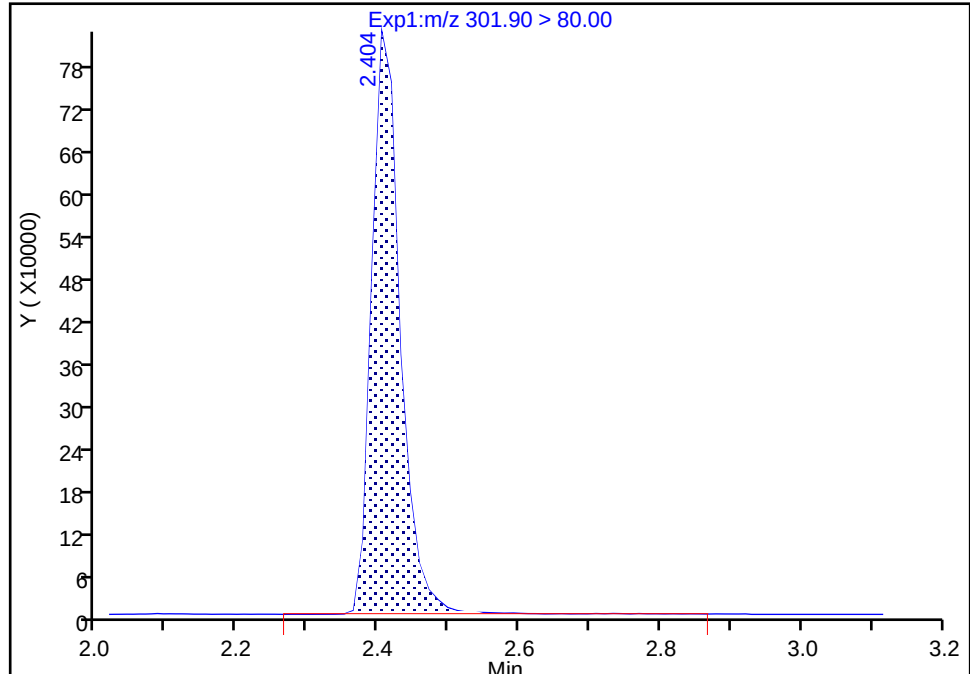
Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

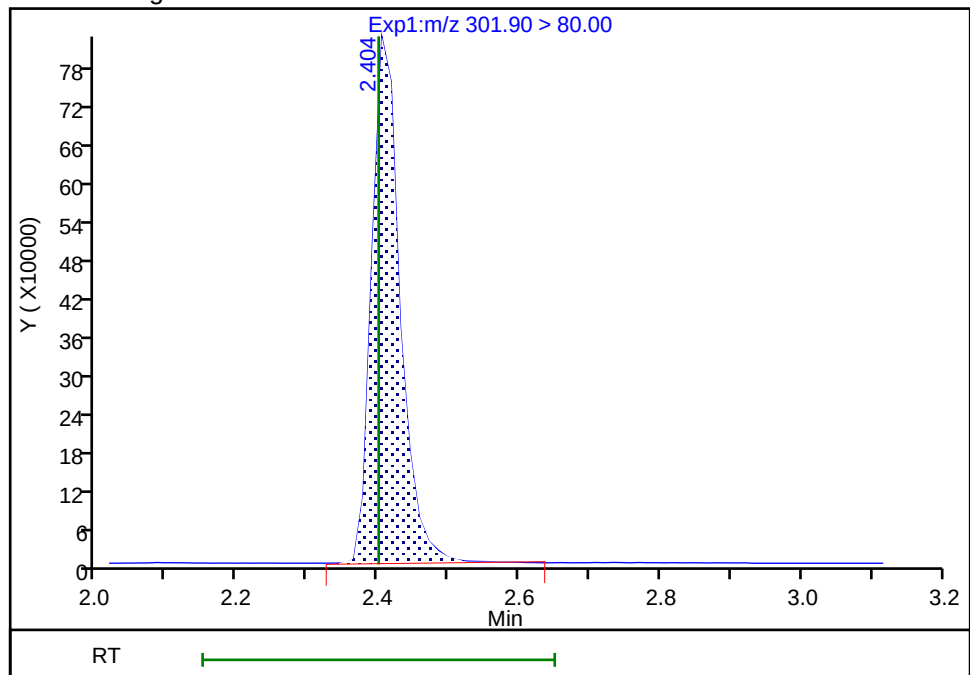
RT: 2.40
Area: 2310875
Amount: 1.080264
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2299658
Amount: 1.075020
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 12:58:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 200-187142/3-A

Matrix: Water Lab File ID: PA221230C04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 12/29/2022 13:39

Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:50

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187179 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	39.67		5.00	1.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.15		2.00	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	40.07		2.00	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	40.79		2.00	0.54
335-67-1	Perfluorooctanoic acid (PFOA)	40.37		2.00	0.76
375-95-1	Perfluorononanoic acid (PFNA)	42.62		2.00	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	43.42		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	43.63		2.00	0.55
307-55-1	Perfluorododecanoic acid (PFDoA)	40.28		2.00	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	37.14		2.00	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.25		2.00	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	37.24		2.00	0.62
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	37.35		2.00	0.55
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	41.22		2.00	0.41
335-77-3	Perfluorodecanesulfonic acid (PFDS)	28.73		2.00	0.40
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.08		2.00	0.85
754-91-6	Perfluorooctanesulfonamide (FOSA)	37.07		2.00	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	42.29		5.00	1.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.16		5.00	1.60
27619-97-2	6:2 FTS	42.69		5.00	1.30
39108-34-4	8:2 FTS	43.44		2.00	0.77

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 200-187142/3-A

Matrix: Water Lab File ID: PA221230C04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 12/29/2022 13:39

Sample wt/vol: 250 (mL) Date Analyzed: 12/30/2022 22:50

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187179 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	99		50-150
STL00995	13C5 PFNA	100		50-150
STL00992	13C4 PFBA	93		50-150
STL00993	13C2 PFHxA	105		50-150
STL00996	13C2 PFDA	103		50-150
STL00997	13C2 PFUnA	96		50-150
STL00994	18O2 PFHxS	103		50-150
STL00998	13C2 PFDoA	81		50-150
STL00991	13C4 PFOS	95		50-150
STL01056	13C8 FOSA	73		50-150
STL01893	13C5 PFPeA	96		50-150
STL02116	13C2 PFTeDA	84		50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	85		50-150
STL02279	M2-6:2 FTS	114		50-150
STL02337	13C3 PFBS	94		50-150
STL02280	M2-8:2 FTS	104		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d
 Lims ID: LCSD 200-187142/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 30-Dec-2022 22:50:11 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 200-187142/3-A
 Misc. Info.: 200-0053867-004 Plate: 1 Rack: 3
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 04-Jan-2023 11:48:04 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1677

First Level Reviewer: nampitakw

Date: 04-Jan-2023 13:06:03

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	2.123	2.076	0.047	0.639	2852260	1.17		93.3	11222	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.123	2.076	0.047	1.000	2333771	0.99		99.2	159	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.382	2.387	-0.005	0.717	2238326	1.20		96.1	2613	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.395	2.387	0.008	1.006	1909813	0.9786		97.9	42.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.395	2.400	-0.005	0.721	2221731	1.10		94.4	160482	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.408	2.400	0.008	1.006	2035557	0.9310	Target=2.09	105	2094	
298.90 > 99.00	2.408	2.400	0.008	1.006	928211		2.19(1.04-3.13)		445	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.648	2.689	-0.041	1.000	541764	0.9697		104	1584	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.648	2.689	-0.041	0.797	211733	1.18		101	206	
D 7 13C2 PFHxA										
315.00 > 270.00	2.684	2.725	-0.041	0.808	2557954	1.31		105	4799	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.684	2.725	-0.041	1.000	2233423	1.00	Target=14.25	100	347	M
313.00 > 119.00	2.684	2.725	-0.041	1.000	157666		14.17(7.12-21.37)		229	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.684	2.737	-0.053	0.896	1800789	0.8910	Target=3.04	95.0	1260	M
349.00 > 99.00	2.684	2.737	-0.053	0.896	643303		2.80(1.52-4.56)		930	M
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.769	2.835	-0.066	1.000	382011	1.03		103	3573	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.769	2.835	-0.066	0.833	439658	1.28		102	2092	
D 11 18O2 PFHxS										
403.00 > 84.00	2.994	3.088	-0.094	0.901	1789712	1.21		103	4354	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.994	3.088	-0.094	1.000	1595096	0.9338	Target=3.66	103	1441	M
399.00 > 99.00	2.994	3.088	-0.094	1.000	475491		3.35(1.83-5.49)		567	M
D 9 13C4 PFHpA										
367.00 > 322.00	2.994	3.099	-0.105	0.901	2656663	1.32		106	4299	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.994	3.099	-0.105	1.000	2359656	1.02	Target=3.97	102	417	M
363.00 > 169.00	2.994	3.099	-0.105	1.000	575642		4.10(1.98-5.95)		878	M
77 DONA										
377.00 > 251.00	3.027	3.132	-0.105	0.833	5425473	1.04	Target=3.16	110	3993	
377.00 > 85.00	3.027	3.132	-0.105	0.833	1747310		3.11(1.58-4.73)		1561	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.313	3.439	-0.126	0.997	333991	1.35		114	628	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.313	3.439	-0.126	1.000	641193	1.07		113	662	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.303	3.439	-0.136	0.909	1362698	1.03	Target=5.14	108	2727	M
449.00 > 99.00	3.303	3.439	-0.136	0.909	272826		4.99(2.57-7.72)		954	M
D 14 13C4 PFOA										
417.00 > 372.00	3.322	3.448	-0.126	1.000	2790709	1.24		98.9	3233	
* 62 13C2 PFOA										
415.00 > 370.00	3.322	3.448	-0.126		2726363	1.25			4872	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.322	3.448	-0.126	1.000	2408972	1.01	Target=2.79	101	155	M
413.00 > 169.00	3.322	3.448	-0.126	1.000	846614		2.85(1.40-4.19)		826	M
D 18 13C4 PFOS										
503.00 > 80.00	3.632	3.764	-0.132	1.093	1131429	1.13		94.6	2393	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.632	3.764	-0.132	1.000	1038732	0.9021	Target=5.11	97.2	806	M
499.00 > 99.00	3.632	3.764	-0.132	1.000	234033		4.44(2.55-7.66)		424	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.650	3.783	-0.133	1.000	2431564	1.07	Target=8.55	107	473	
463.00 > 169.00	3.650	3.783	-0.133	1.000	266841		9.11(4.28-12.83)		1188	
D 19 13C5 PFNA										
468.00 > 423.00	3.650	3.783	-0.133	1.098	2749716	1.25		100	3823	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.798	3.928	-0.130	1.046	2668897	1.01		108	3766	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.924	4.050	-0.126	1.080	771116	0.8873	Target=2.53	92.4	2884	M
549.00 > 99.00	3.924	4.050	-0.126	1.080	316359		2.44(1.27-3.80)		1079	M
D 23 13C2 PFDA										
515.00 > 470.00	3.959	4.081	-0.122	1.191	2875517	1.29		103	5213	

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	3.959	4.081	-0.122	1.000	2708290	1.09	Target=10.26	109	909	
513.00 > 169.00	3.959	4.081	-0.122	1.000	251482		10.77(5.13-15.38)		869	
D 26 M2-8:2 FTS										
529.00 > 81.00	3.968	4.093	-0.125	1.194	377803	1.25		104	1405	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	3.968	4.093	-0.125	1.000	554073	1.09		113	2062	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.022	4.150	-0.128	1.000	1299655	0.9268		92.7	1623	
D 21 13C8 FOSA										
506.00 > 78.00	4.022	4.150	-0.128	1.211	1677894	0.9155		73.2	2625	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.103	4.228	-0.125	1.235	510580	1.12		89.7	2604	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.103	4.228	-0.125	1.000	375616	1.06		106	582	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.194	4.331	-0.137	1.155	492835	0.7182	Target=2.51	74.5	1420	
599.00 > 99.00	4.194	4.331	-0.137	1.155	188165		2.62(1.25-3.76)		1067	
D 30 13C2 PFUnA										
565.00 > 520.00	4.227	4.353	-0.126	1.272	2450793	1.20		95.8	4424	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.227	4.353	-0.126	1.000	2155307	1.09	Target=9.88	109	839	
563.00 > 169.00	4.227	4.353	-0.126	1.000	195112		11.05(4.94-14.82)		1671	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.237	4.365	-0.128	1.000	324508	0.9540		95.4	725	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.237	4.365	-0.128	1.275	474949	1.06		84.8	755	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.330	4.454	-0.124	1.192	2764741	0.6787		72.0	2846	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.464	4.591	-0.127	1.000	1806911	1.01	Target=7.77	101	577	M
613.00 > 169.00	4.464	4.591	-0.127	1.000	224356		8.05(3.89-11.66)		1378	
D 36 13C2 PFDaA										
615.00 > 570.00	4.464	4.591	-0.127	1.344	2117081	1.02		81.2	2779	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.477	4.612	-0.135	1.128	221783	0.7235		75.0	1242	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.642	4.776	-0.134	1.278	193404	0.6661	Target=0.50	68.8	1245	
699.00 > 99.00	4.642	4.776	-0.134	1.278	392418		0.49(0.25-0.76)		2861	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.682	4.804	-0.122	1.049	1593274	0.9284	Target=5.21	92.8	477	
663.00 > 169.00	4.682	4.804	-0.122	1.049	277535		5.74(2.60-7.81)		1623	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.879	5.012	-0.133	1.000	197752	0.9563	Target=0.89	95.6	1294	
713.00 > 219.00	4.869	5.012	-0.143	0.998	213870		0.92(0.44-1.33)		2082	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.879	5.012	-0.133	1.469	1888015	1.05		83.7	3501	

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	5.241	5.367	-0.126	1.000	2109552	1.05	Target=5.65	105	207	
813.00 > 169.00	5.241	5.367	-0.126	1.000	332617		6.34(2.82-8.47)		1811	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.241	5.367	-0.126	1.577	2693966	1.21		96.6	3588	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.585	5.722	-0.137	1.066	1906274	1.07	Target=6.24	107	214	
913.00 > 169.00	5.585	5.722	-0.137	1.066	283527		6.72(3.12-9.36)		976	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

Worklist Smp#:

4

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

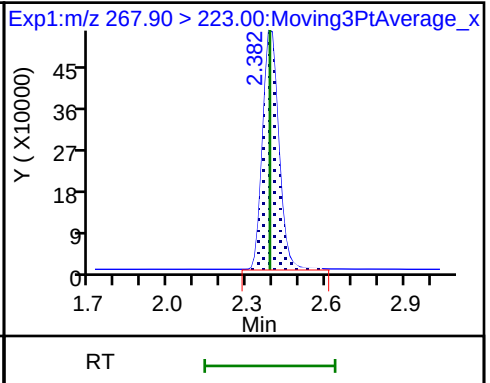
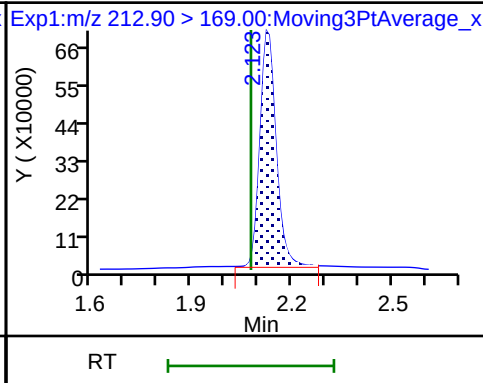
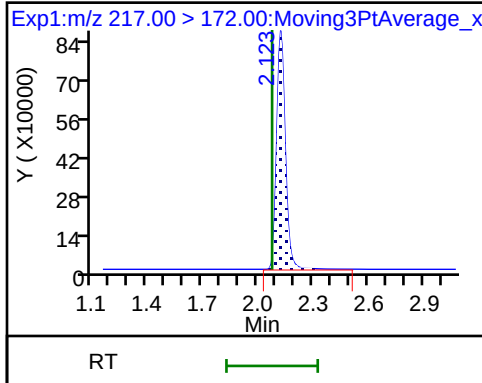
Limit Group:

LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

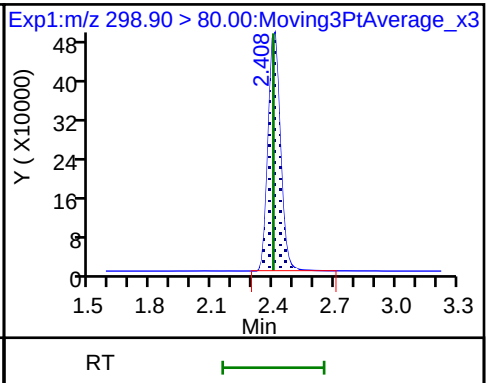
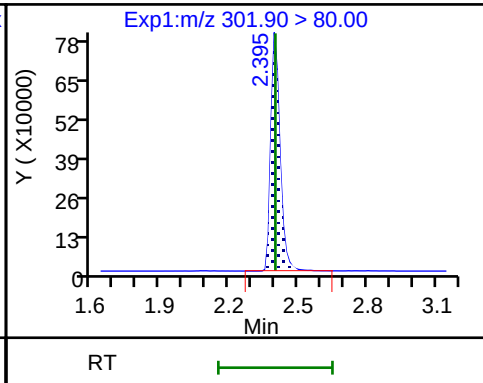
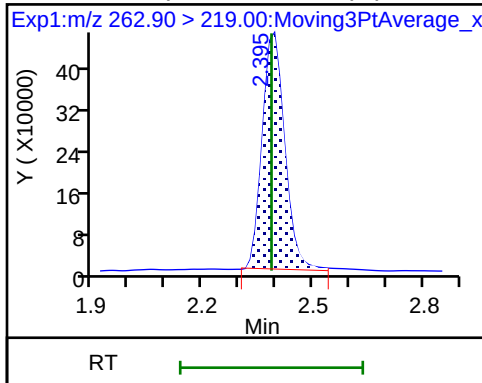
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

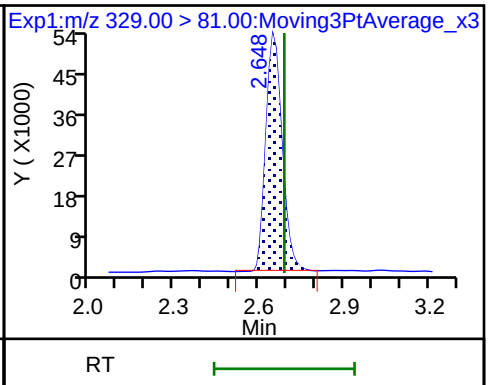
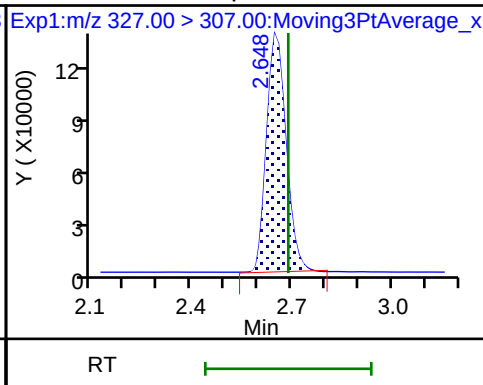
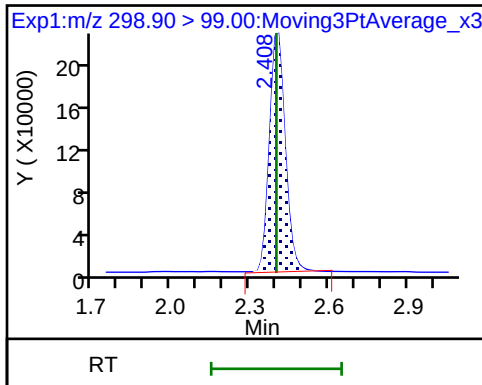
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

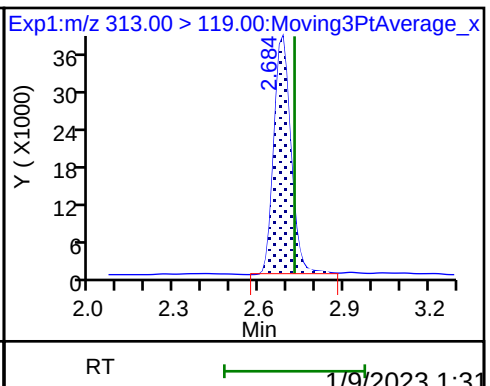
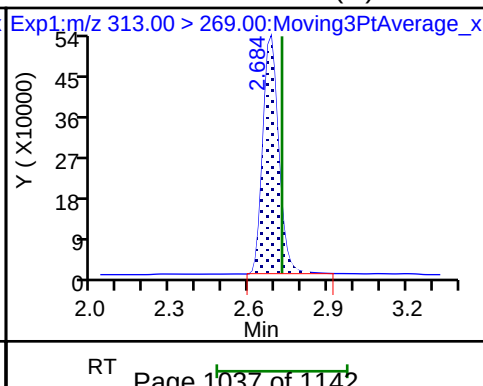
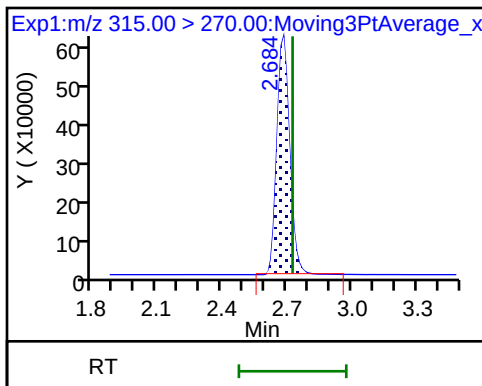
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

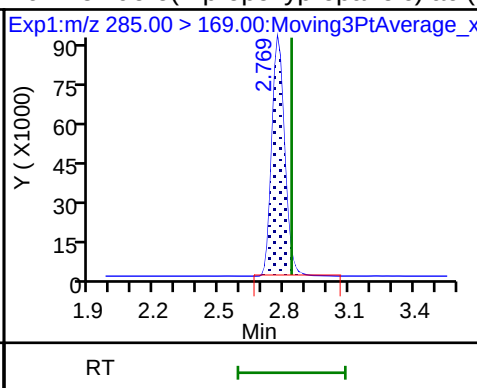
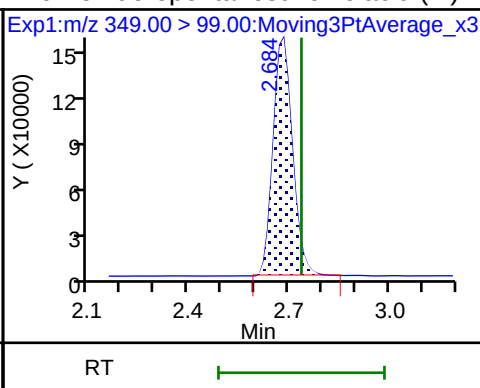
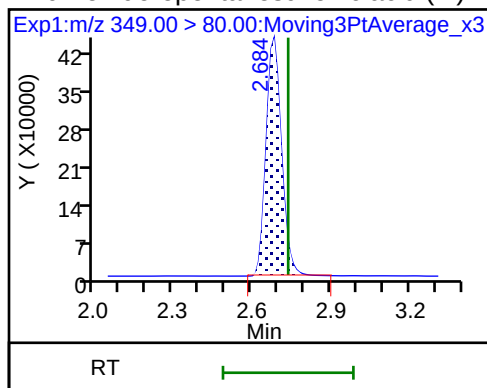
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

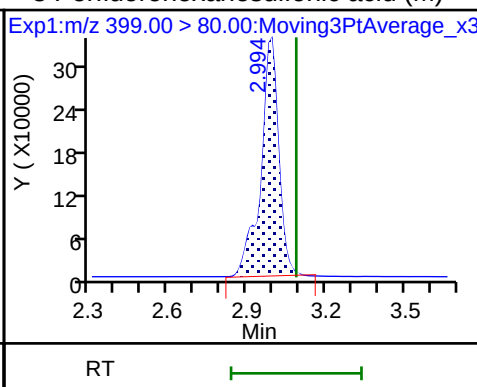
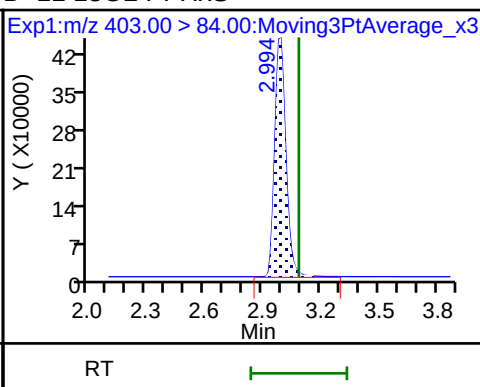
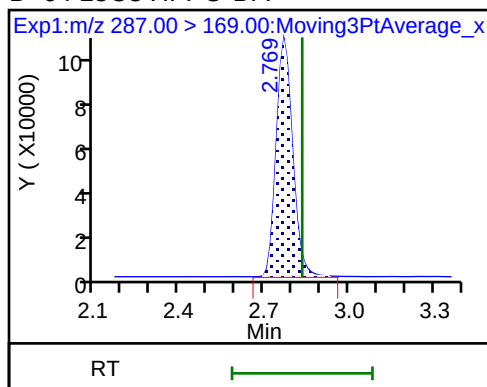
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS

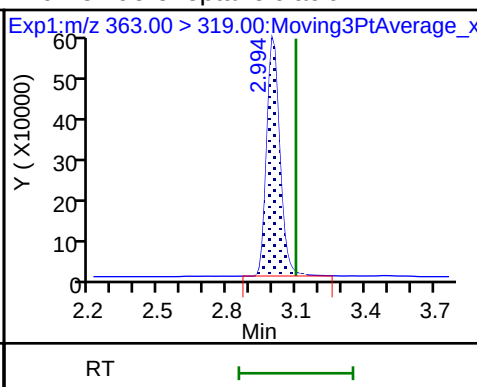
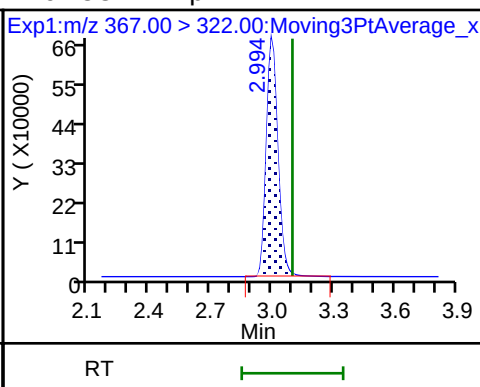
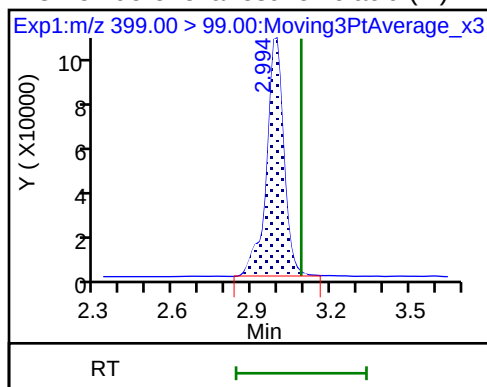
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

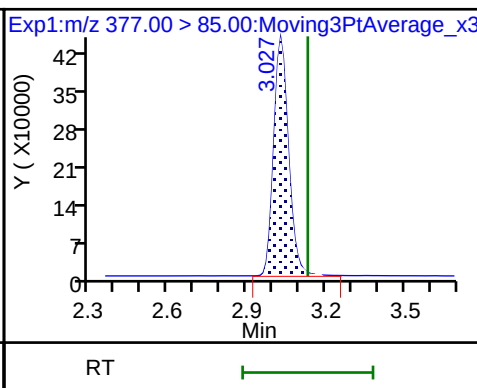
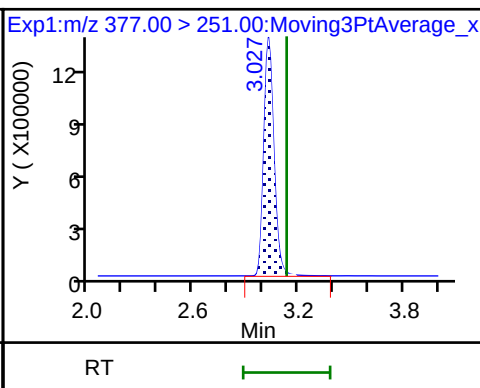
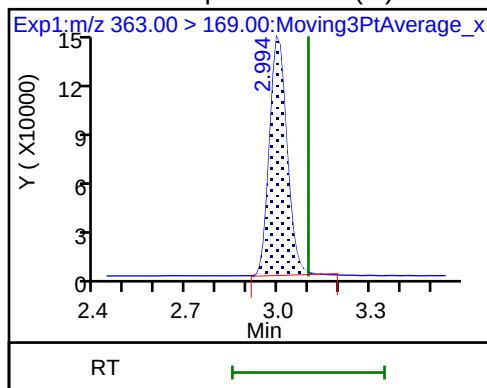
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid (M)

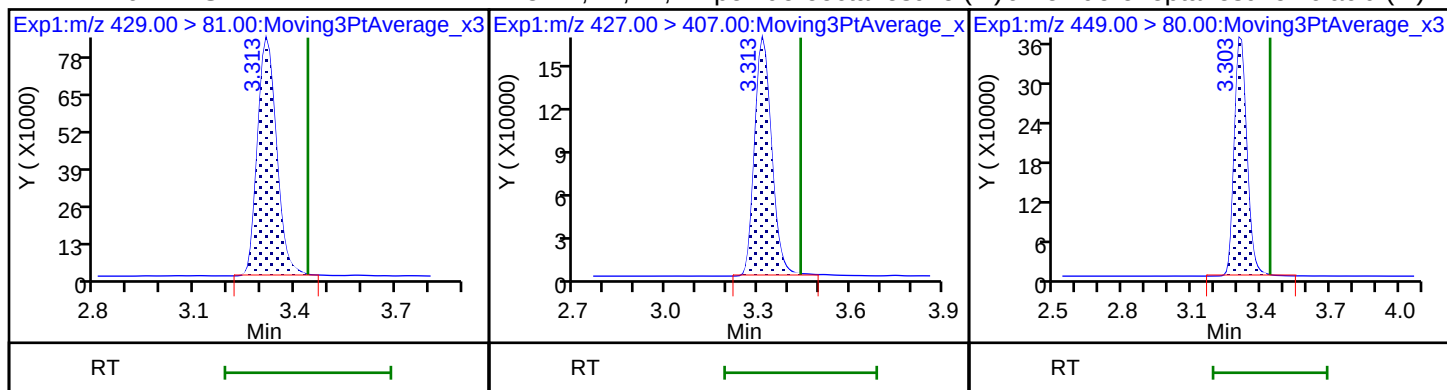
77 DONA

77 DONA



D 12 M2-6:2 FTS

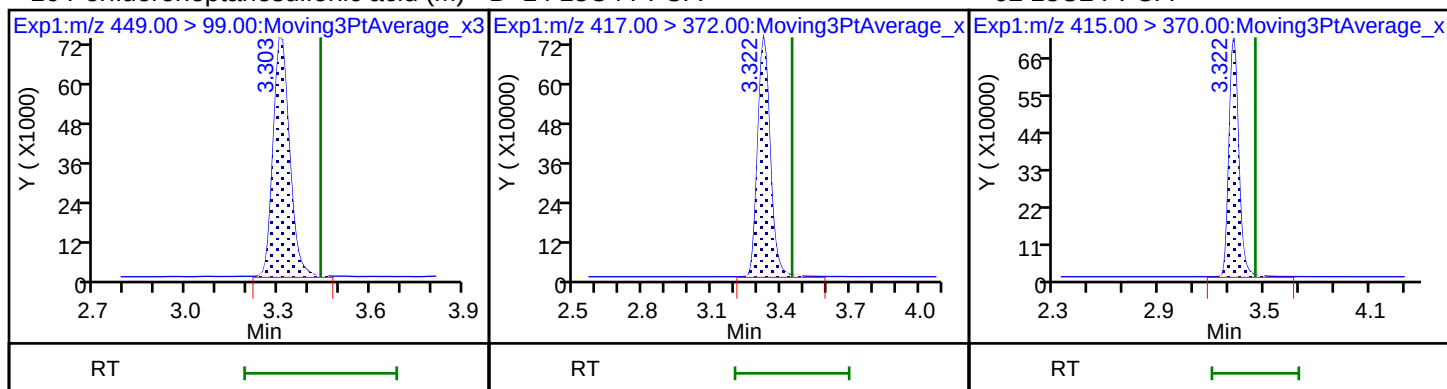
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

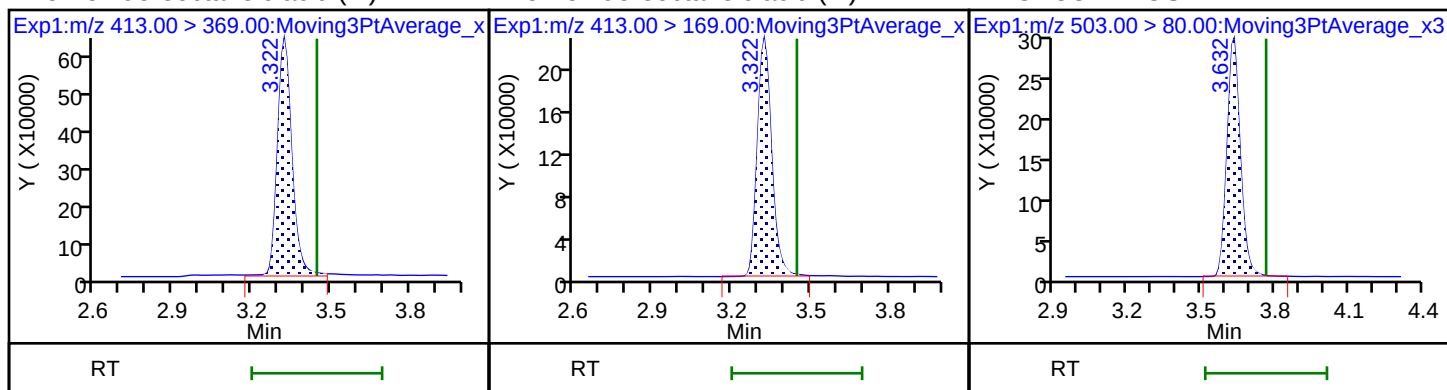
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

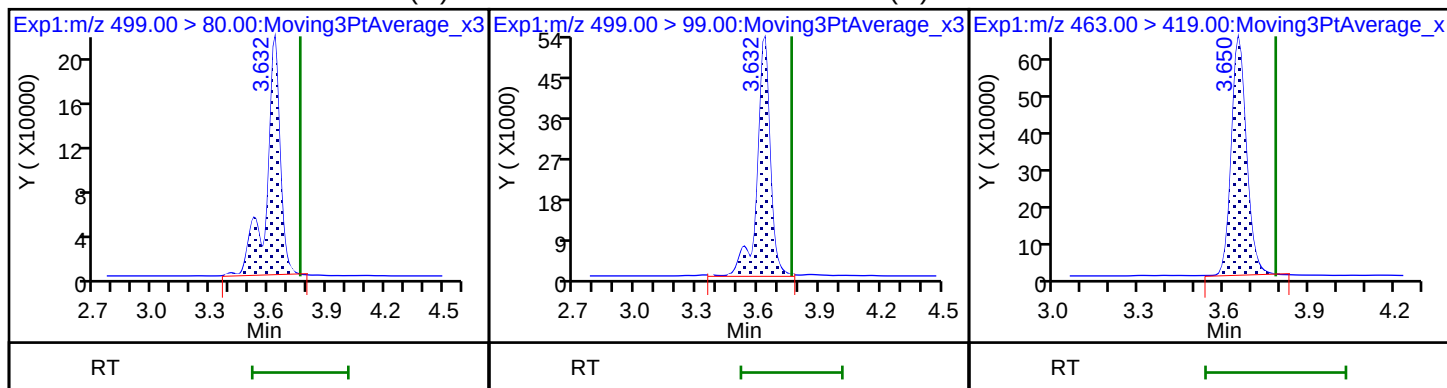
D 18 13C4 PFOS

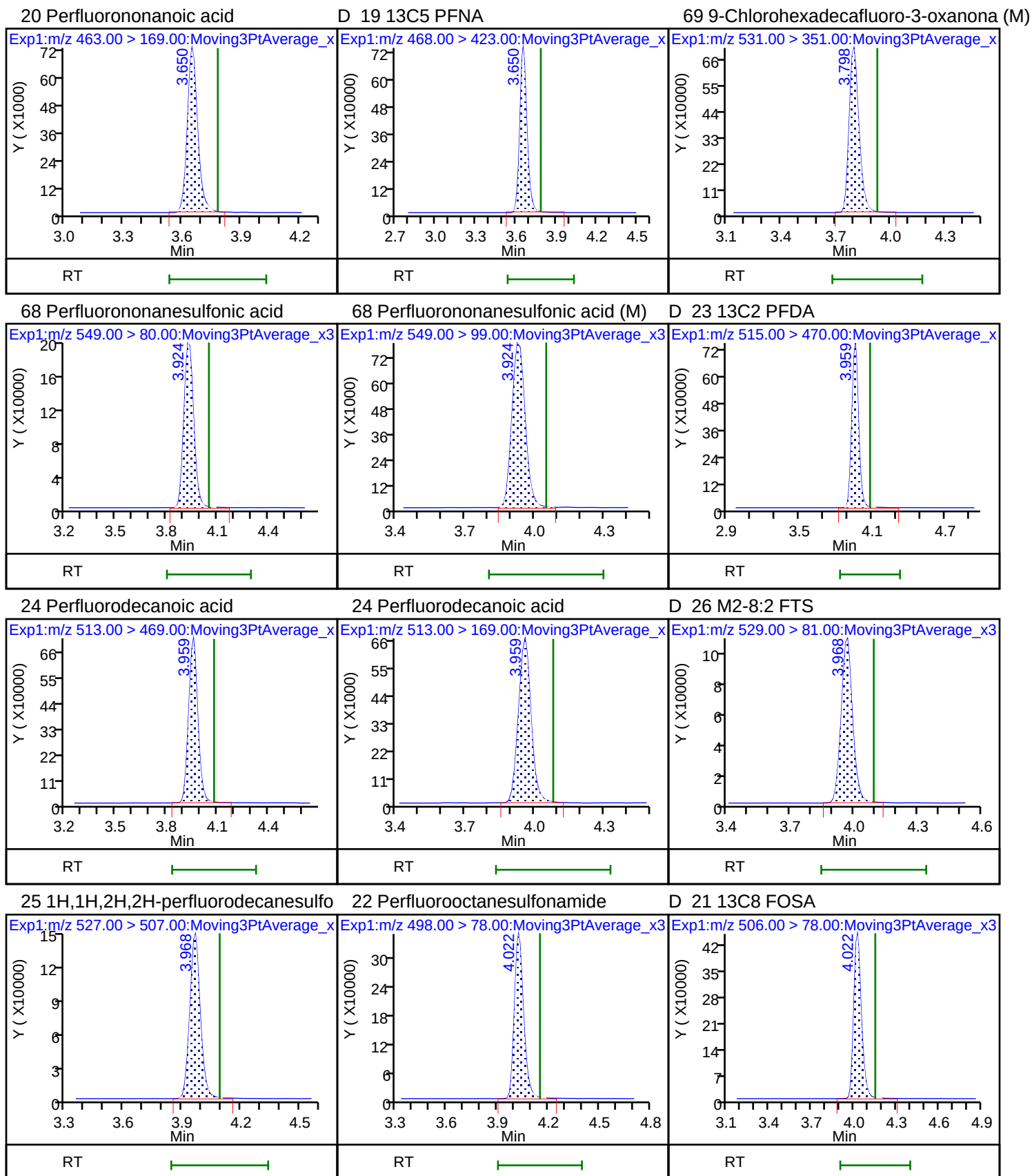


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

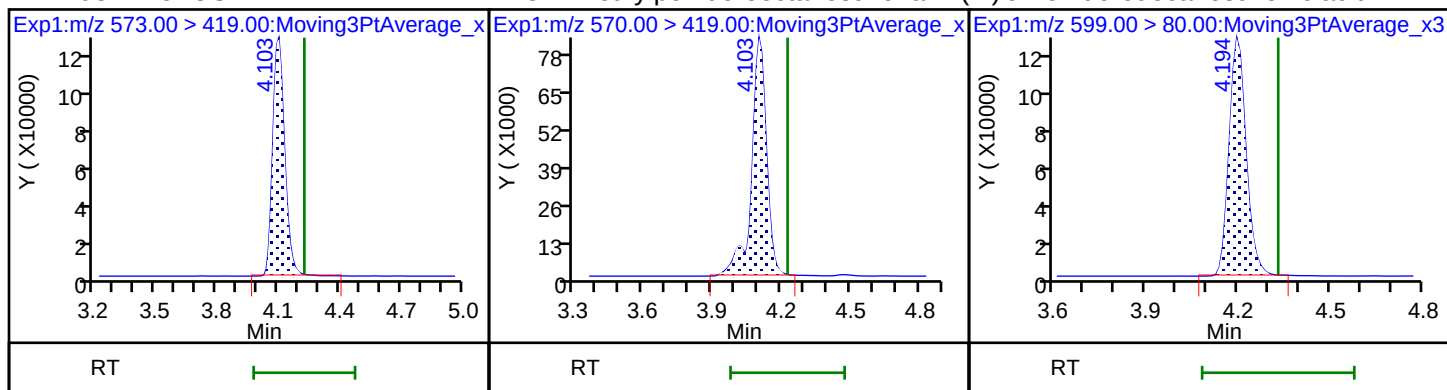
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

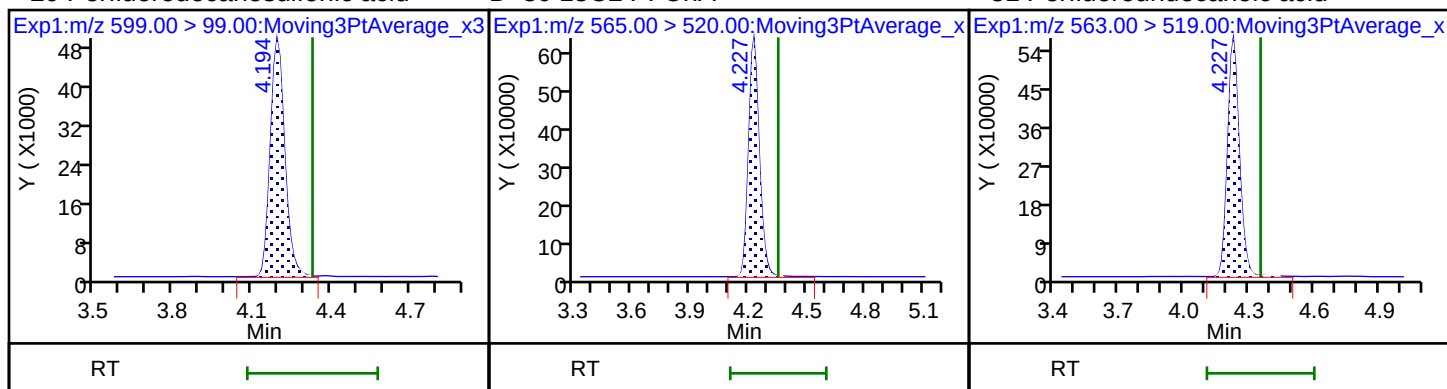
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

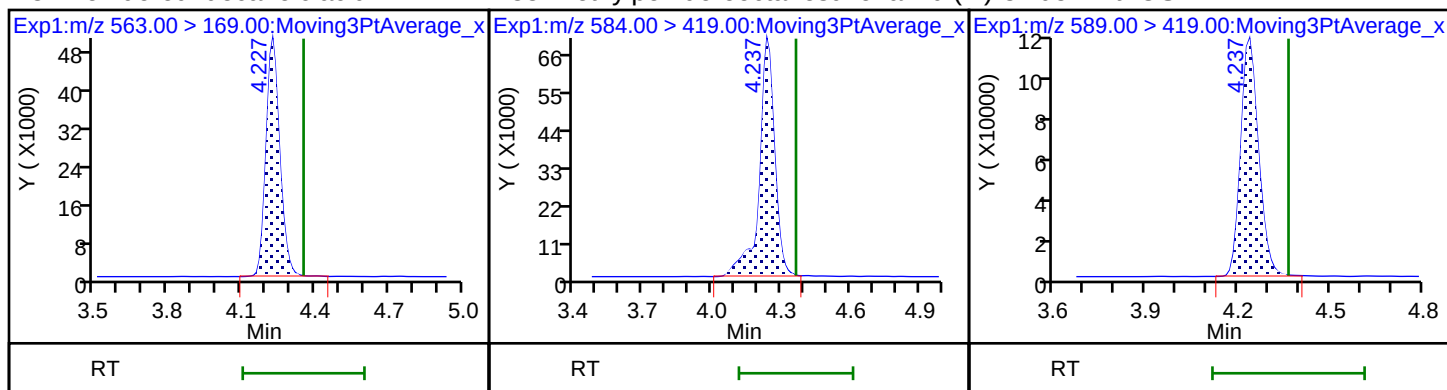
D 30 13C2 PFUa

31 Perfluoroundecanoic acid



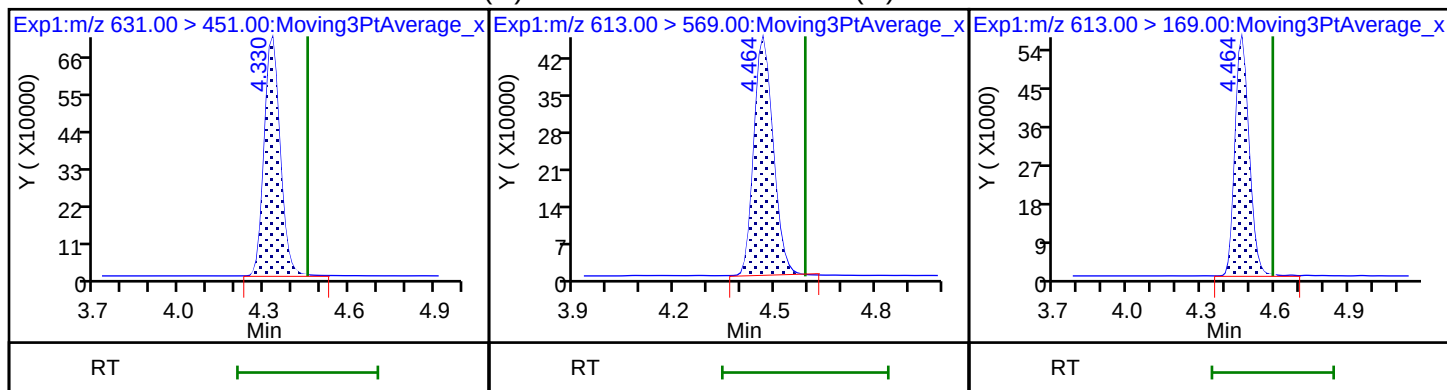
31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (N) 32 d5-NEtFOSAA



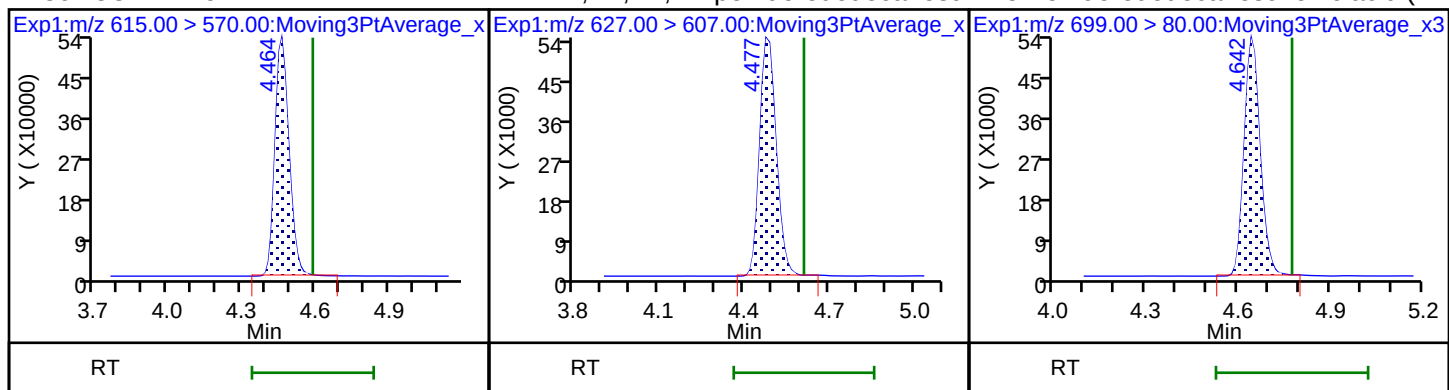
66 11-Chloroeicosafluoro-3-oxaundec (M) 37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

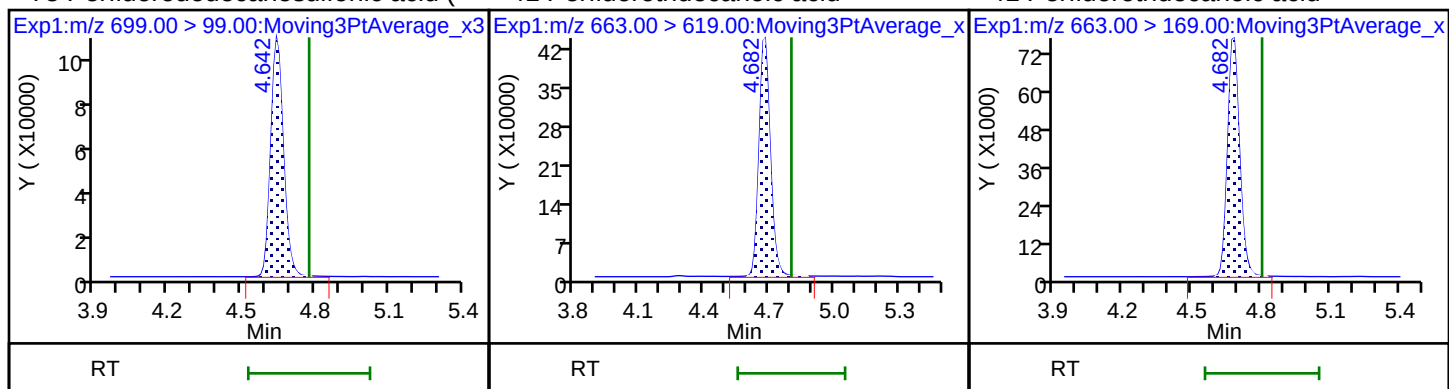
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

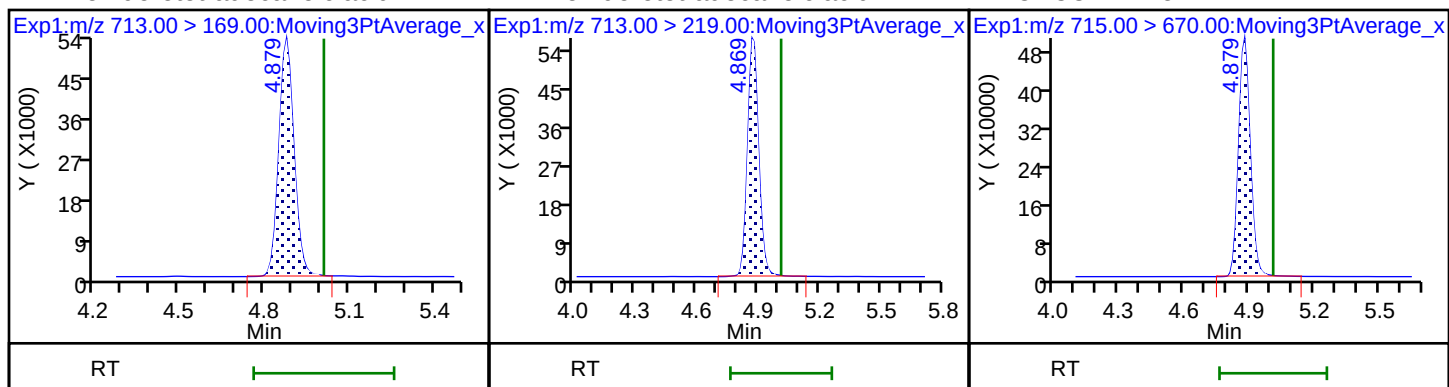
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

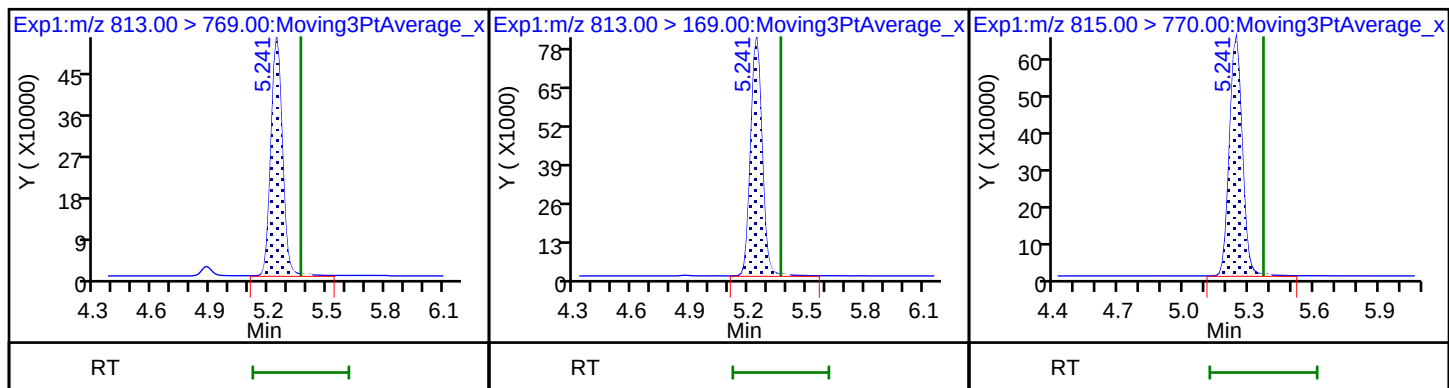
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

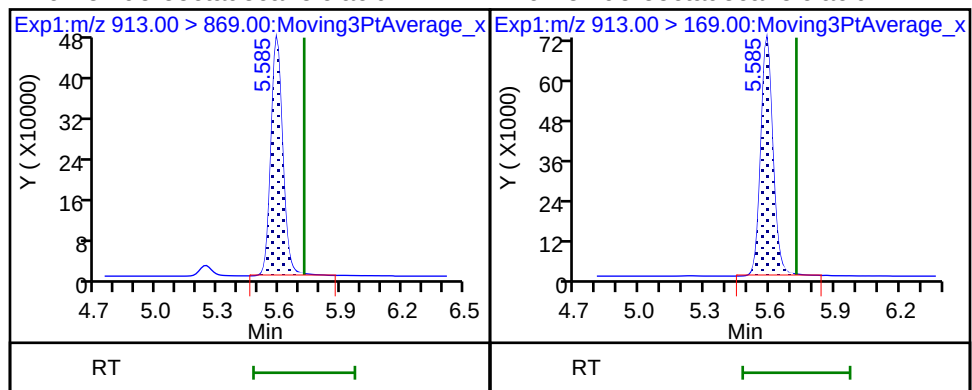
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

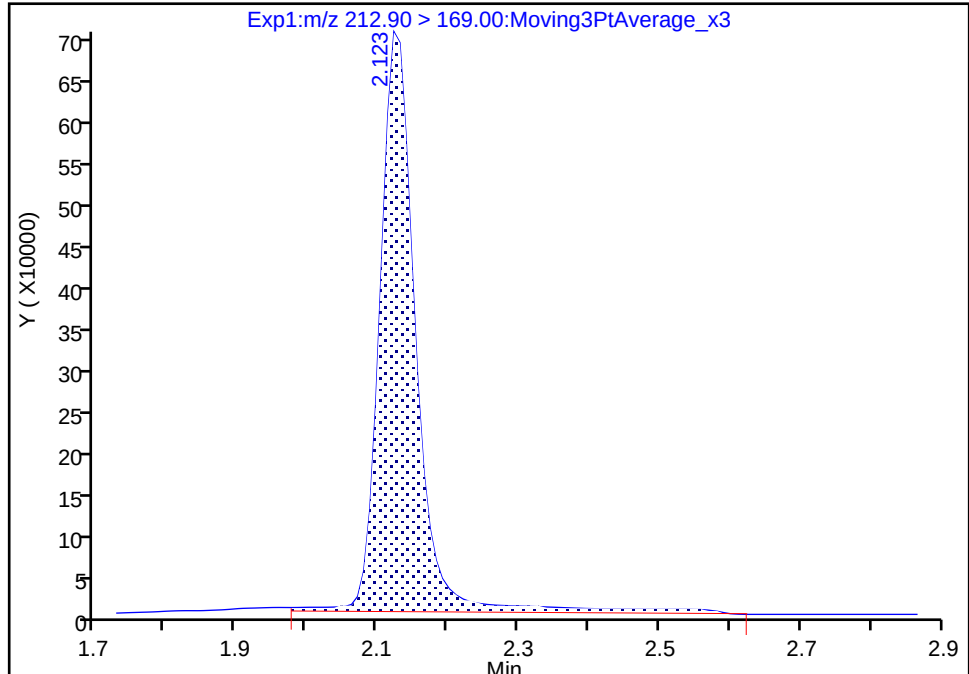
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d
Injection Date: 30-Dec-2022 22:50:11 Instrument ID: LC812
Lims ID: LCSD 200-187142/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

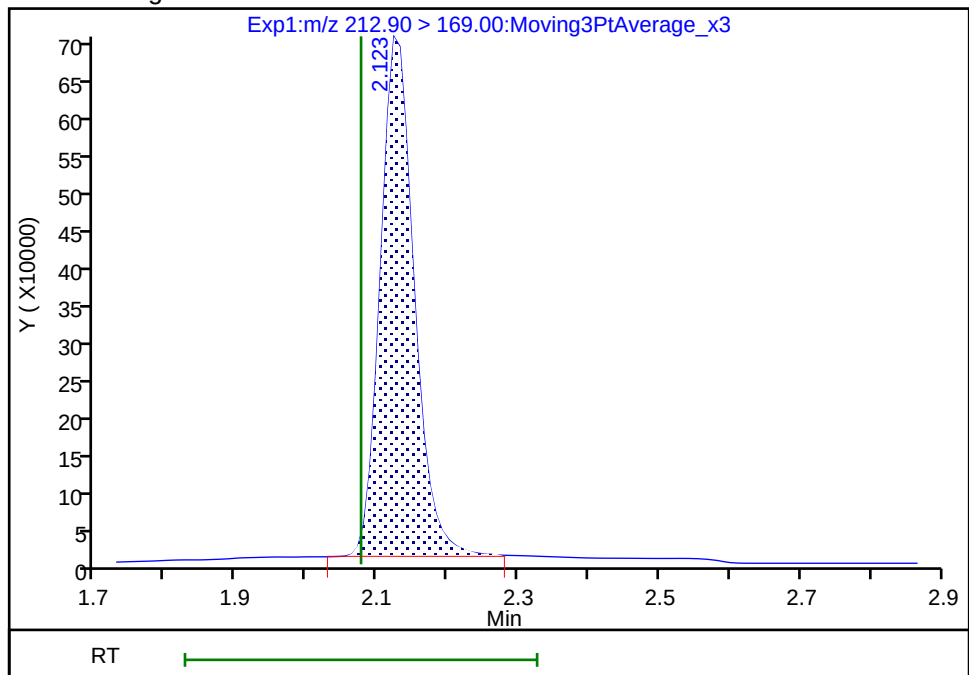
RT: 2.12
Area: 2542302
Amount: 1.080455
Amount Units: ng/ml

Processing Integration Results



RT: 2.12
Area: 2333771
Amount: 0.991831
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:02:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

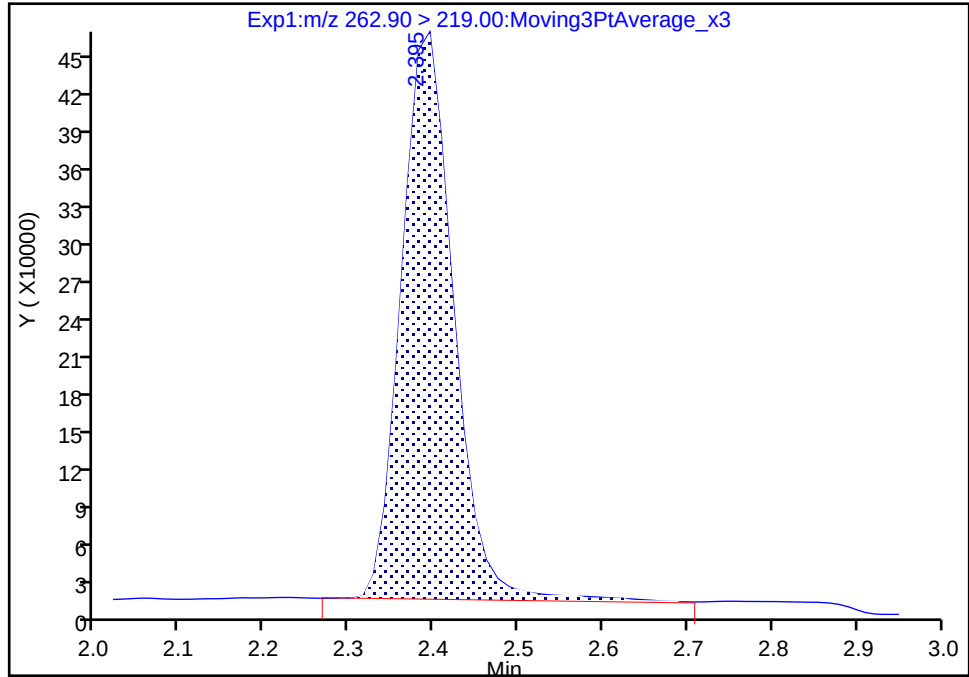
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d
Injection Date: 30-Dec-2022 22:50:11 Instrument ID: LC812
Lims ID: LCSD 200-187142/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

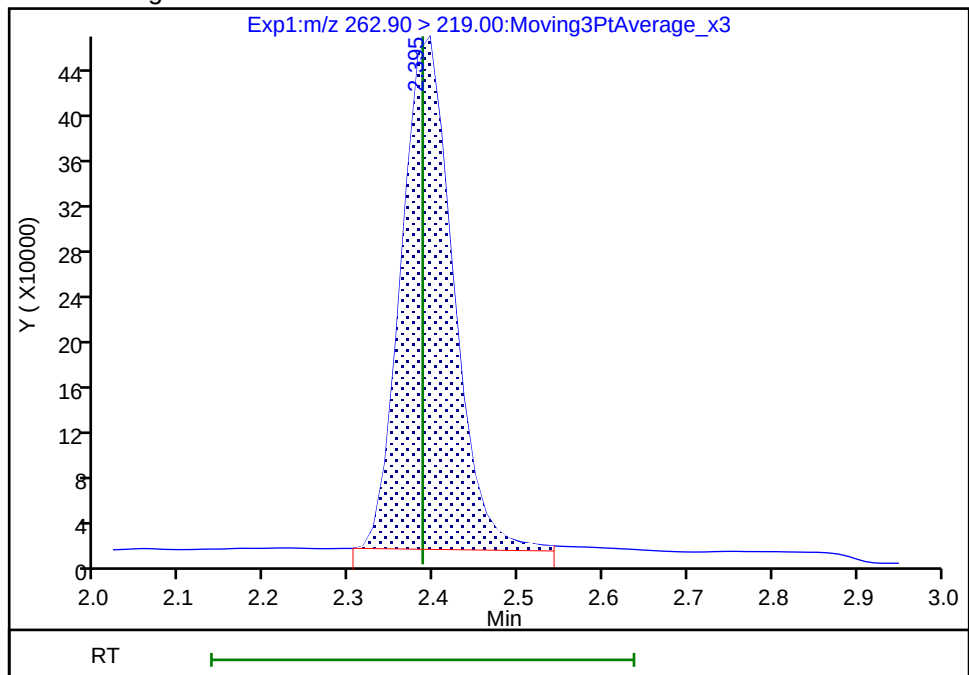
RT: 2.40
Area: 1936351
Amount: 0.992233
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1909813
Amount: 0.978634
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:02:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

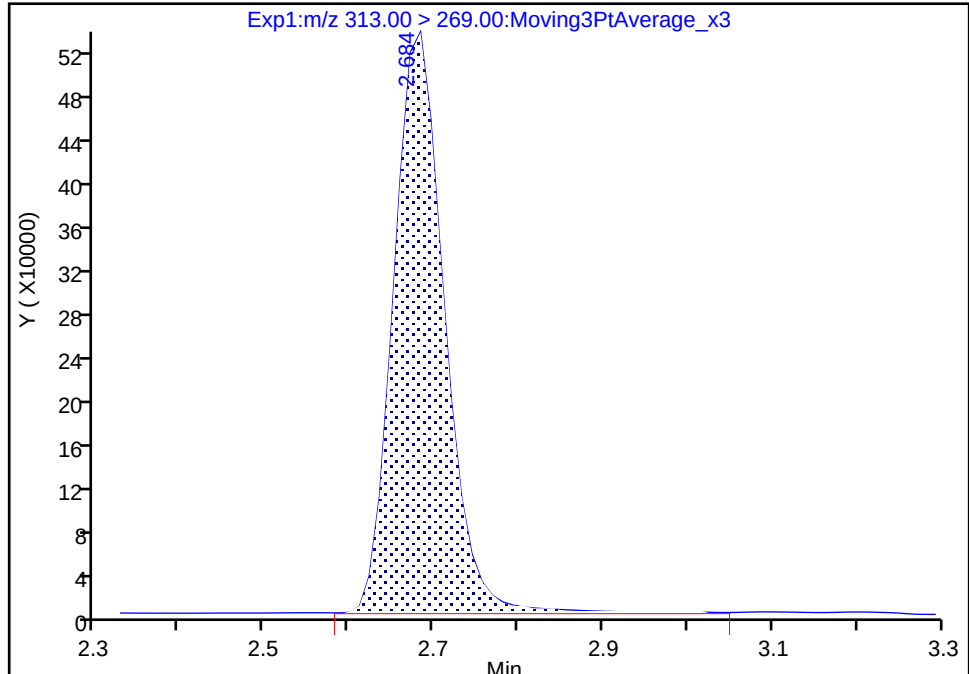
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d
Injection Date: 30-Dec-2022 22:50:11 Instrument ID: LC812
Lims ID: LCSD 200-187142/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

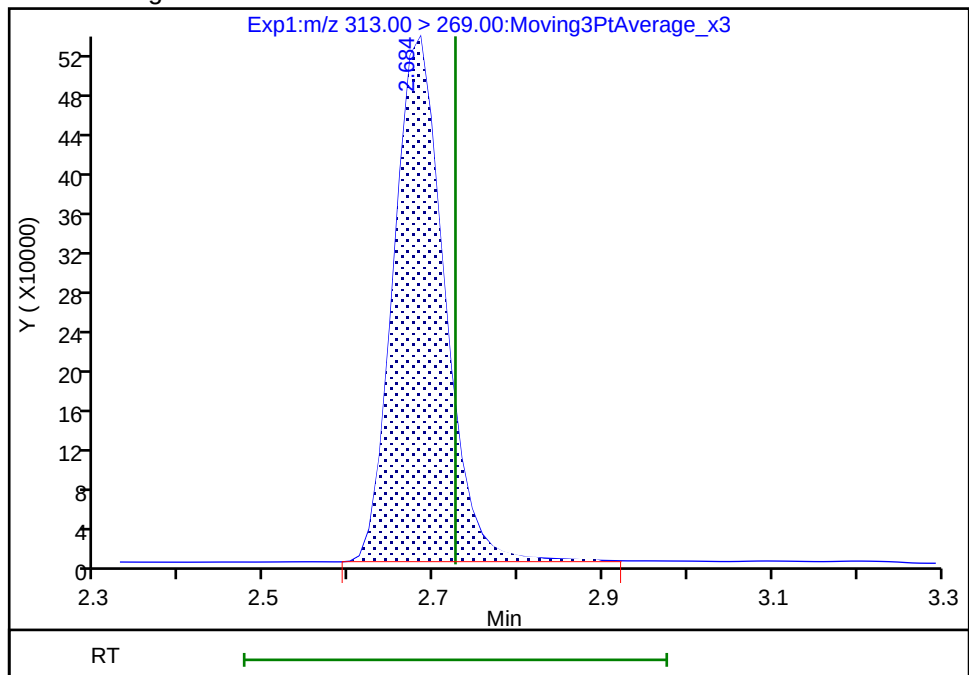
RT: 2.68
Area: 2246309
Amount: 1.007432
Amount Units: ng/ml

Processing Integration Results



RT: 2.68
Area: 2233423
Amount: 1.001652
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

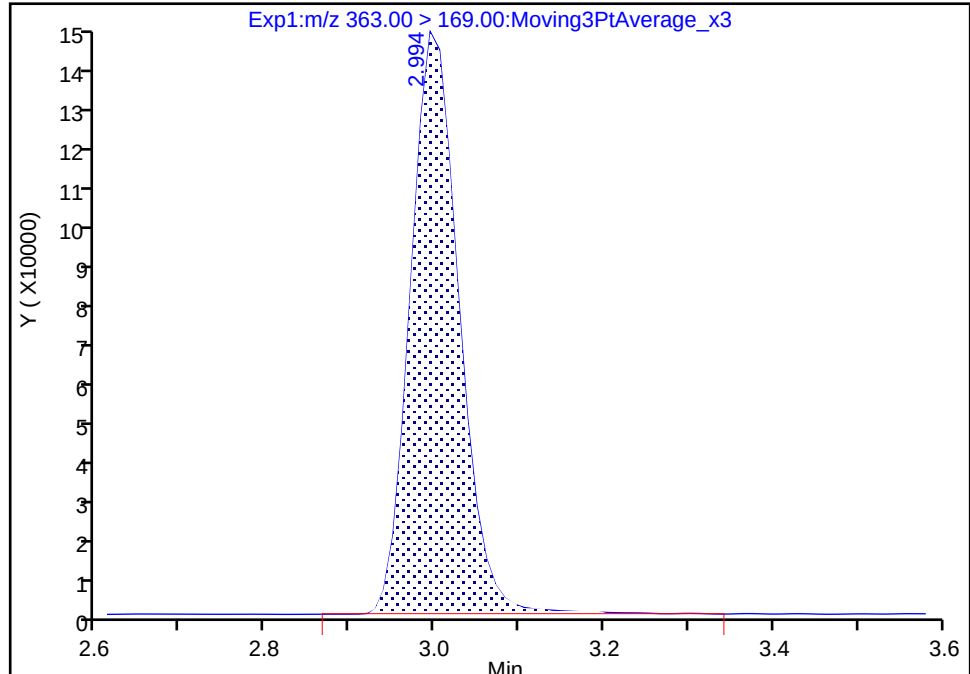
EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

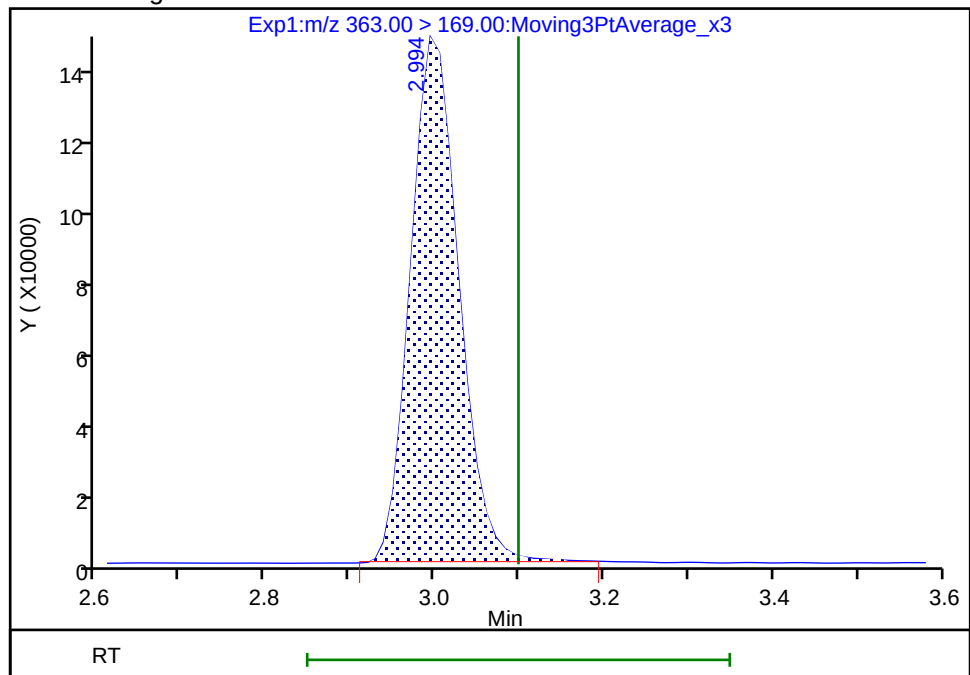
RT: 2.99
Area: 581996
Amount: 1.019720
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 575642
Amount: 1.019720
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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)

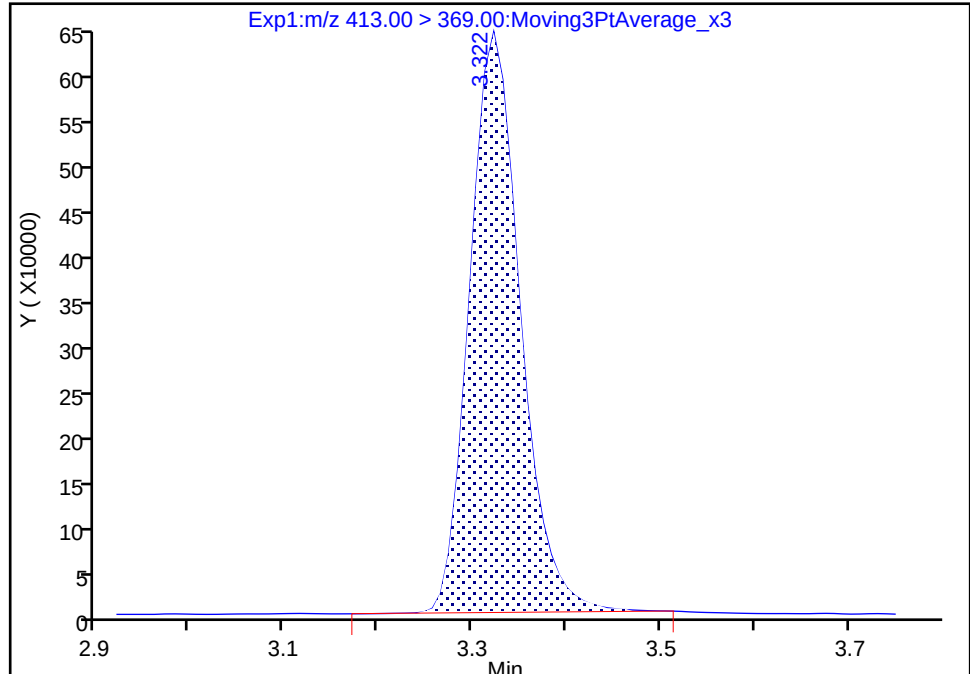
Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

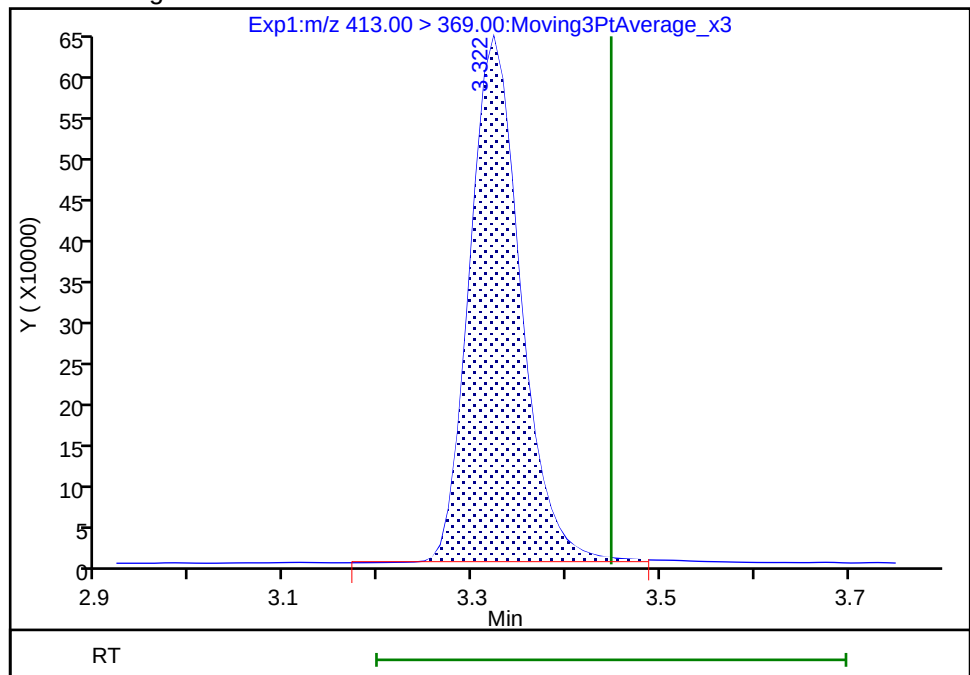
RT: 3.32
Area: 2386310
Amount: 0.999837
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 2408972
Amount: 1.009332
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:04:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

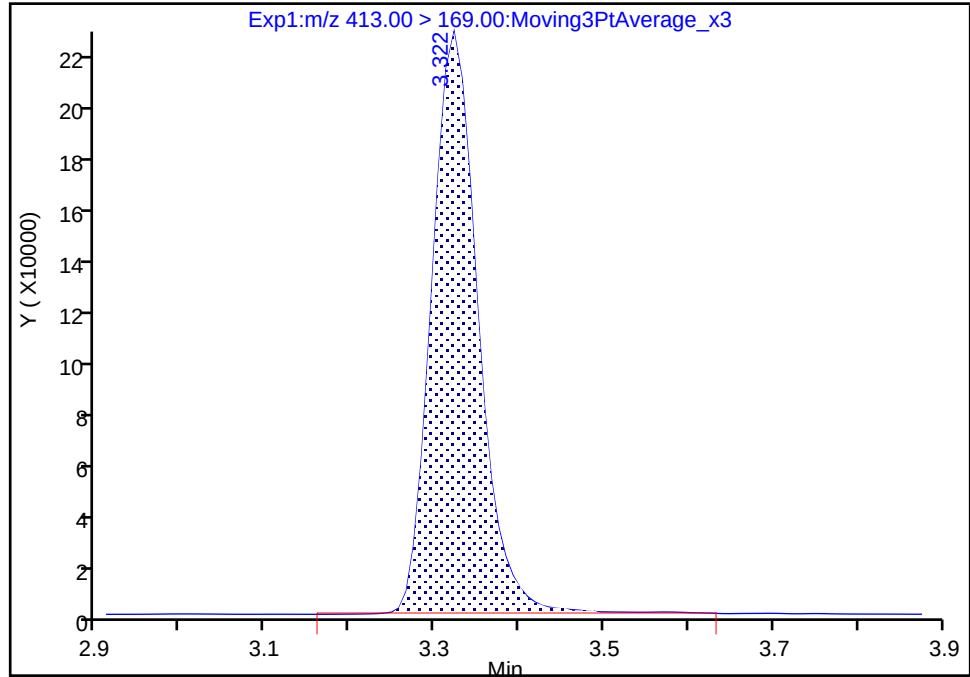
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

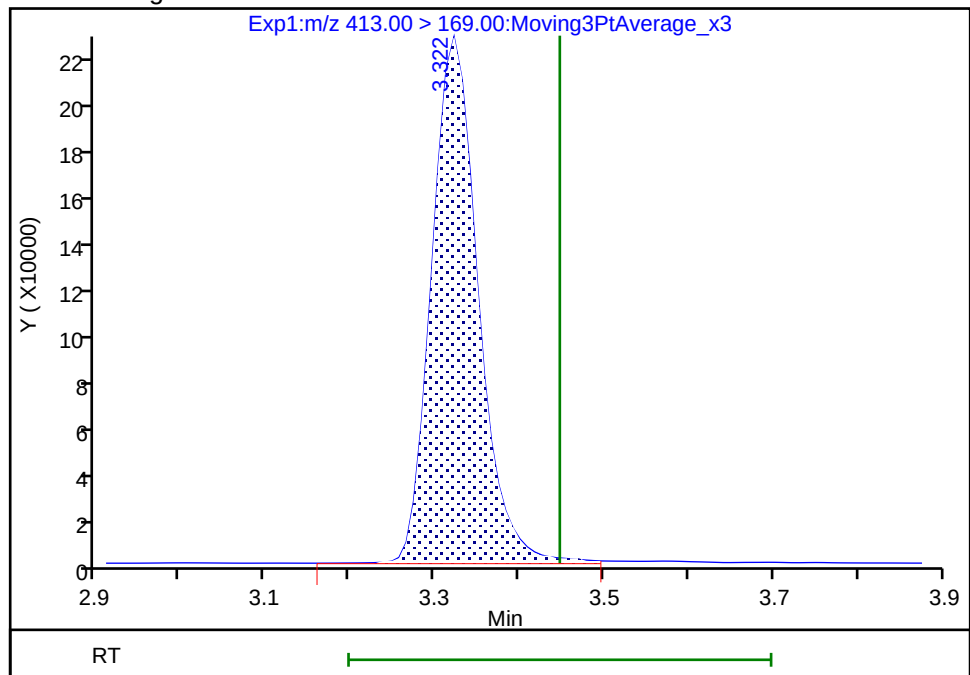
RT: 3.32
Area: 849630
Amount: 0.999837
Amount Units: ng/ml

Processing Integration Results



RT: 3.32
Area: 846614
Amount: 1.009332
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:04:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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)

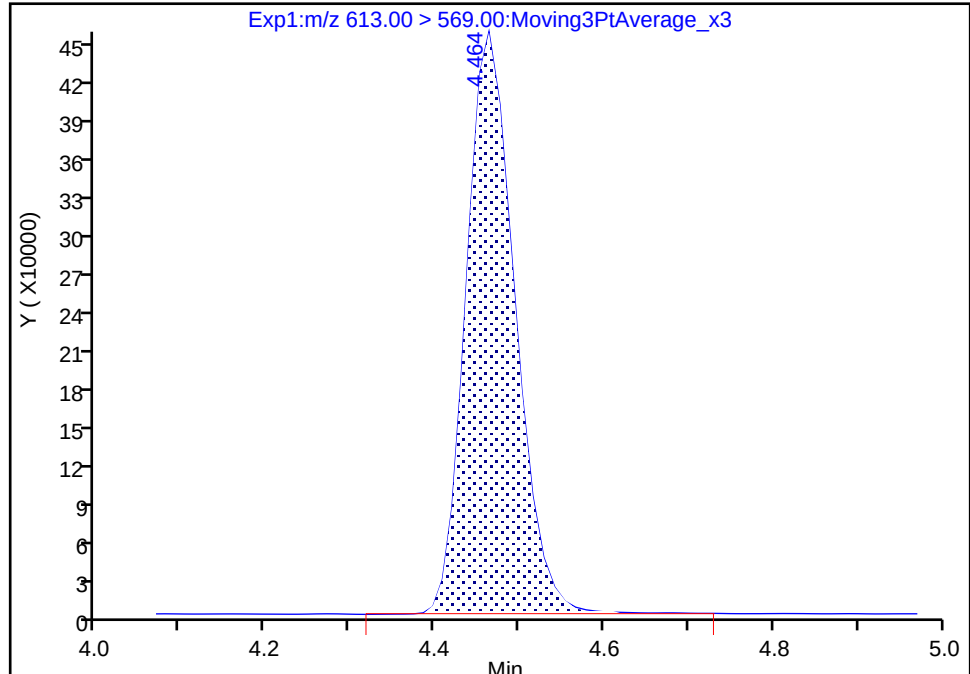
Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

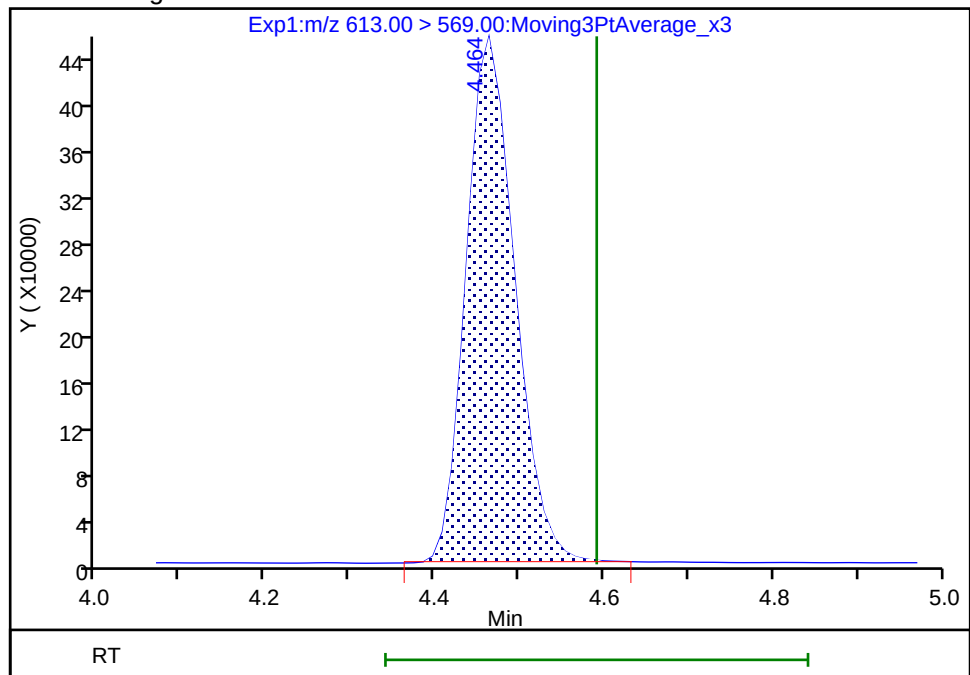
RT: 4.46
Area: 1816544
Amount: 1.012356
Amount Units: ng/ml

Processing Integration Results



RT: 4.46
Area: 1806911
Amount: 1.006988
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:05:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

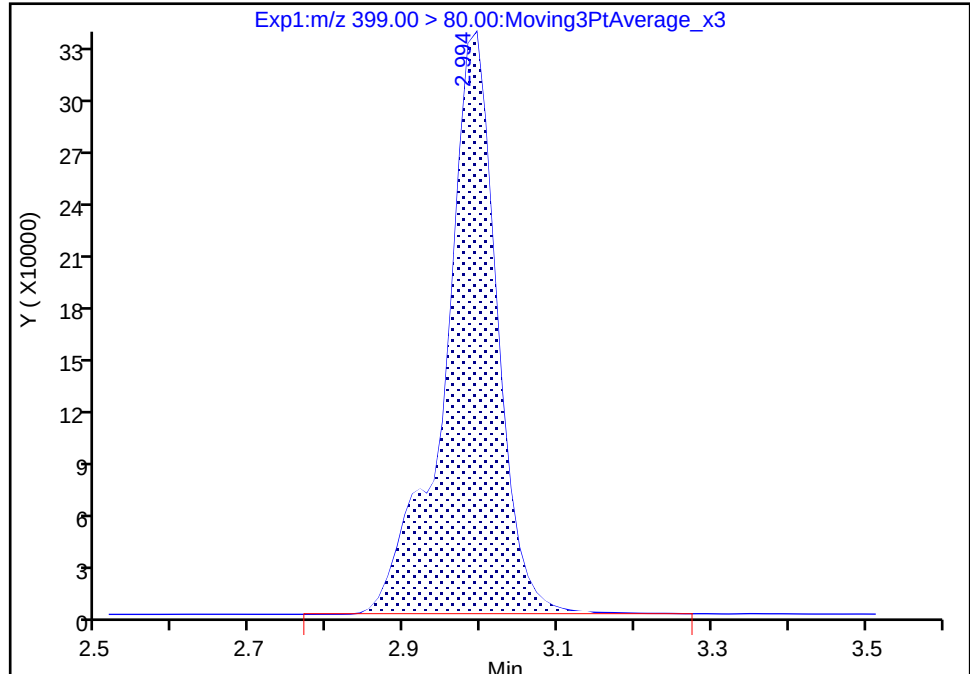
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d
Injection Date: 30-Dec-2022 22:50:11 Instrument ID: LC812
Lims ID: LCSD 200-187142/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

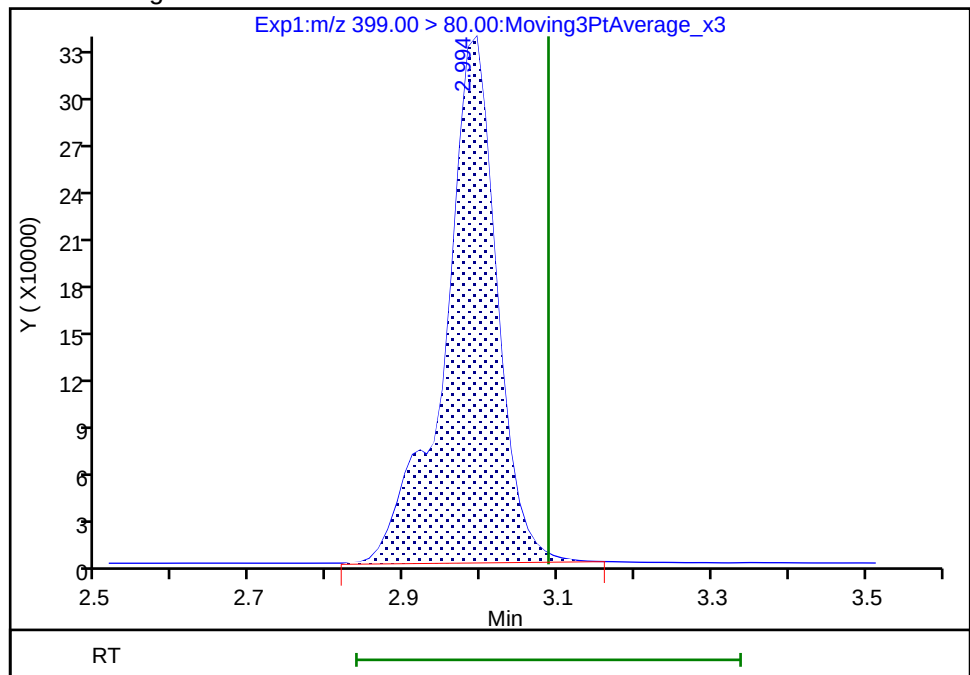
RT: 2.99
Area: 1605537
Amount: 0.939889
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 1595096
Amount: 0.933776
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

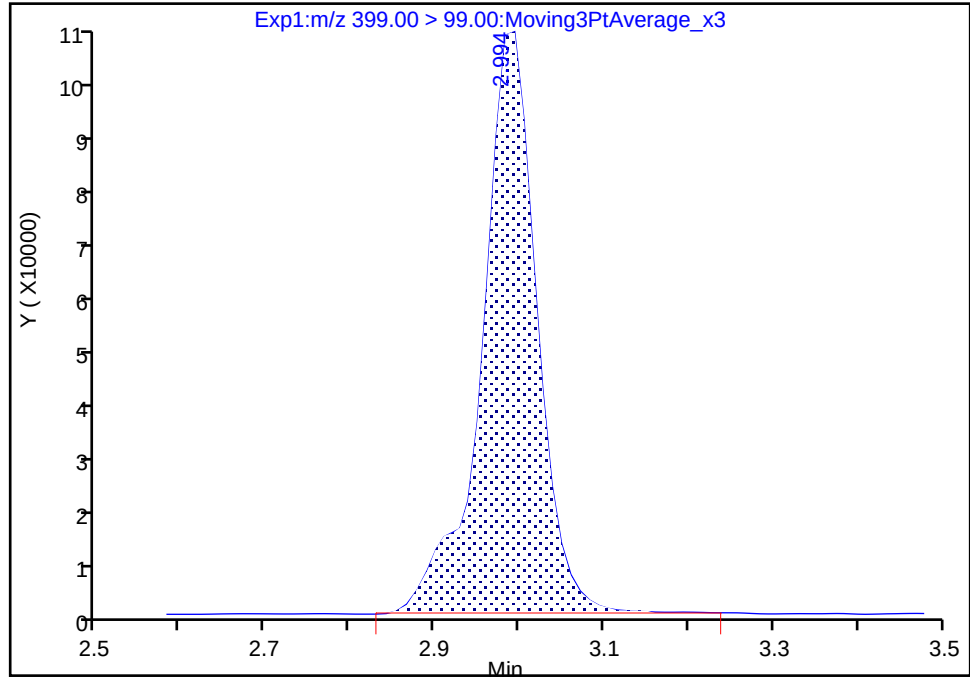
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

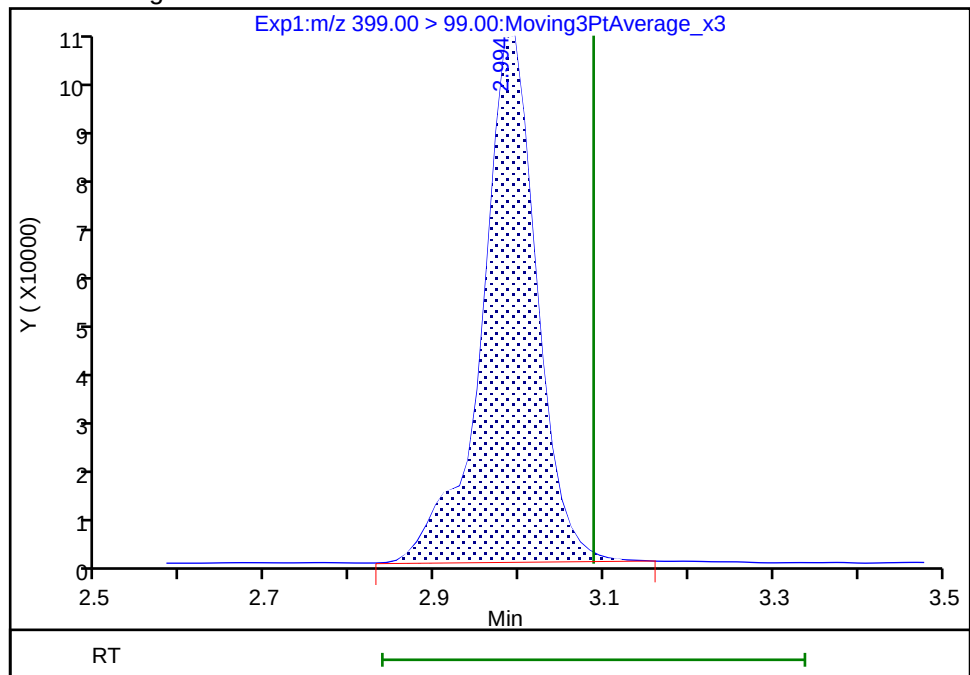
RT: 2.99
Area: 477796
Amount: 0.939889
Amount Units: ng/ml

Processing Integration Results



RT: 2.99
Area: 475491
Amount: 0.933776
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

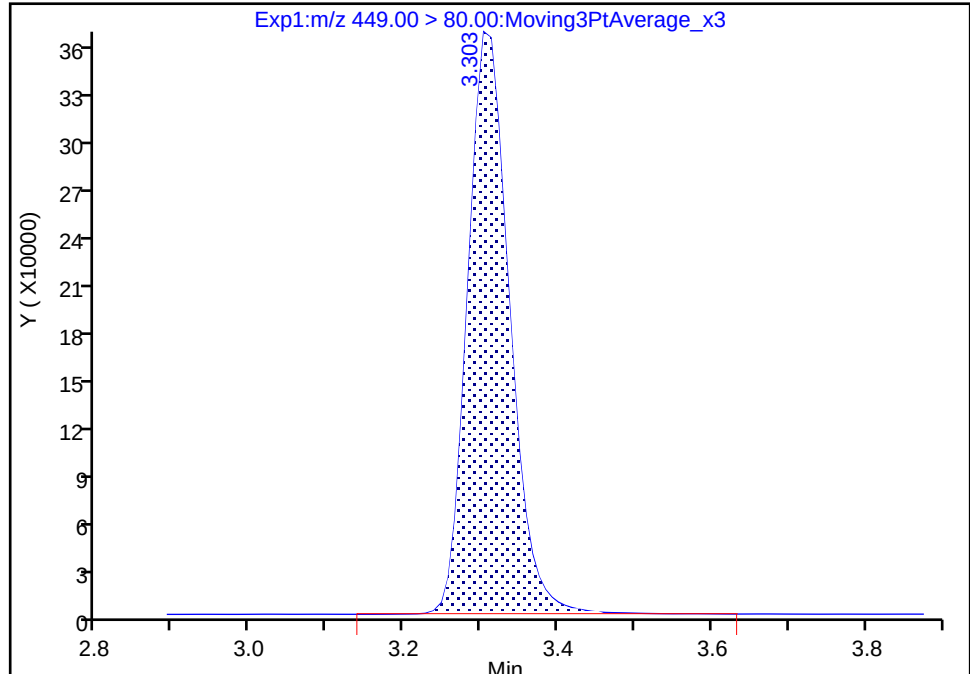
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

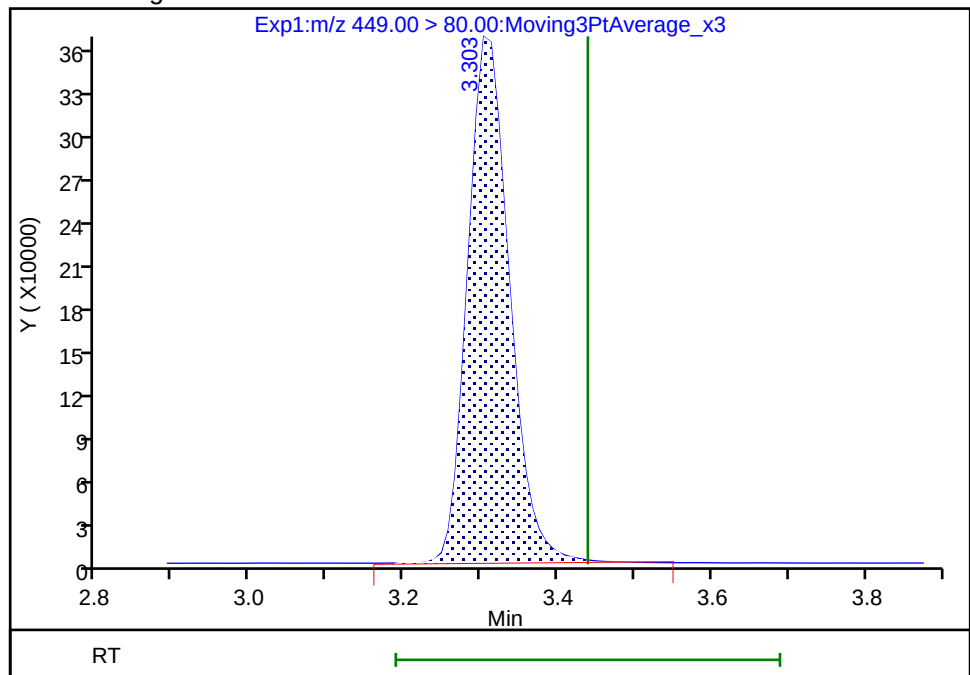
RT: 3.30
Area: 1365835
Amount: 1.032832
Amount Units: ng/ml

Processing Integration Results



RT: 3.30
Area: 1362698
Amount: 1.030460
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

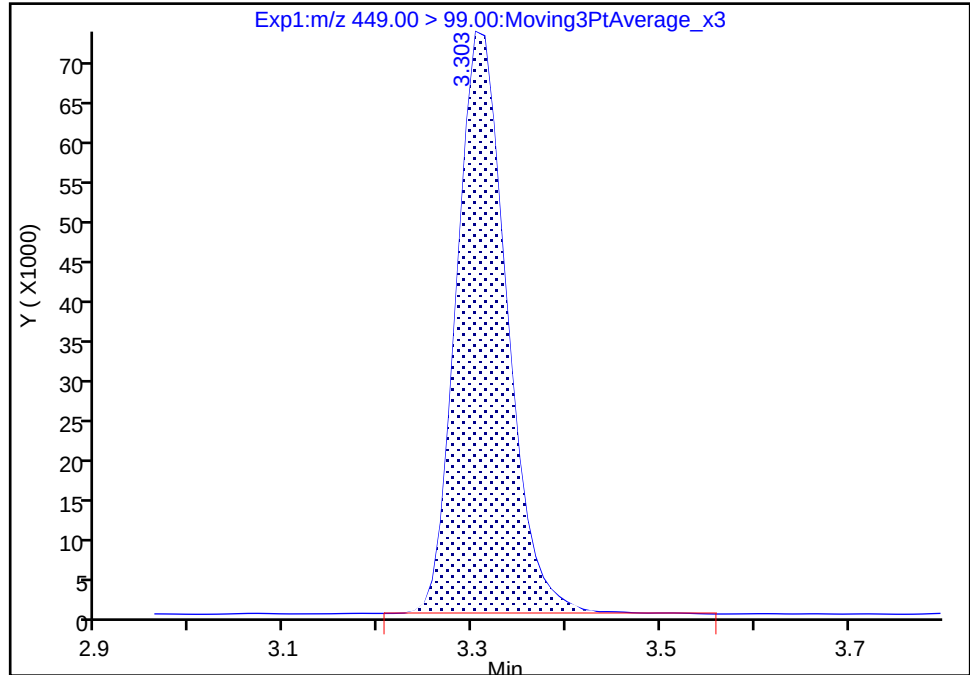
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

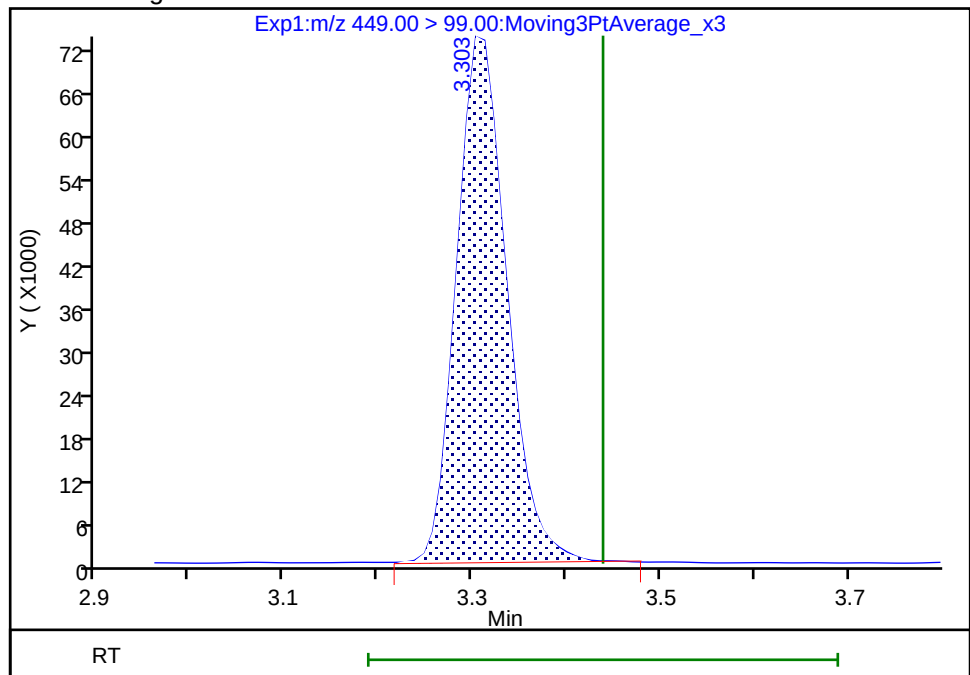
RT: 3.30
Area: 275196
Amount: 1.032832
Amount Units: ng/ml

Processing Integration Results



RT: 3.30
Area: 272826
Amount: 1.030460
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

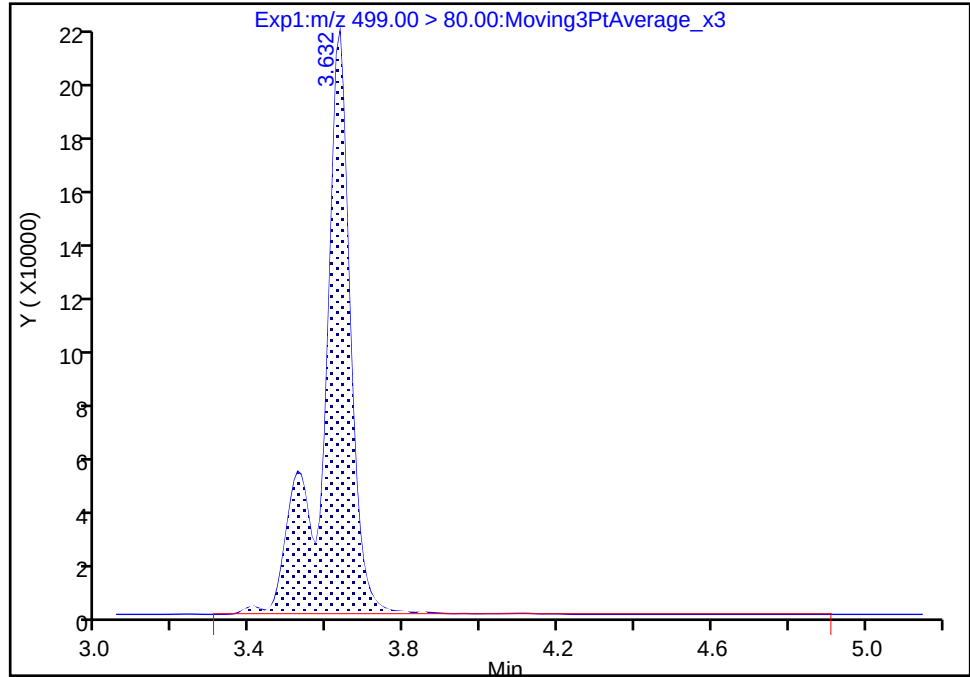
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

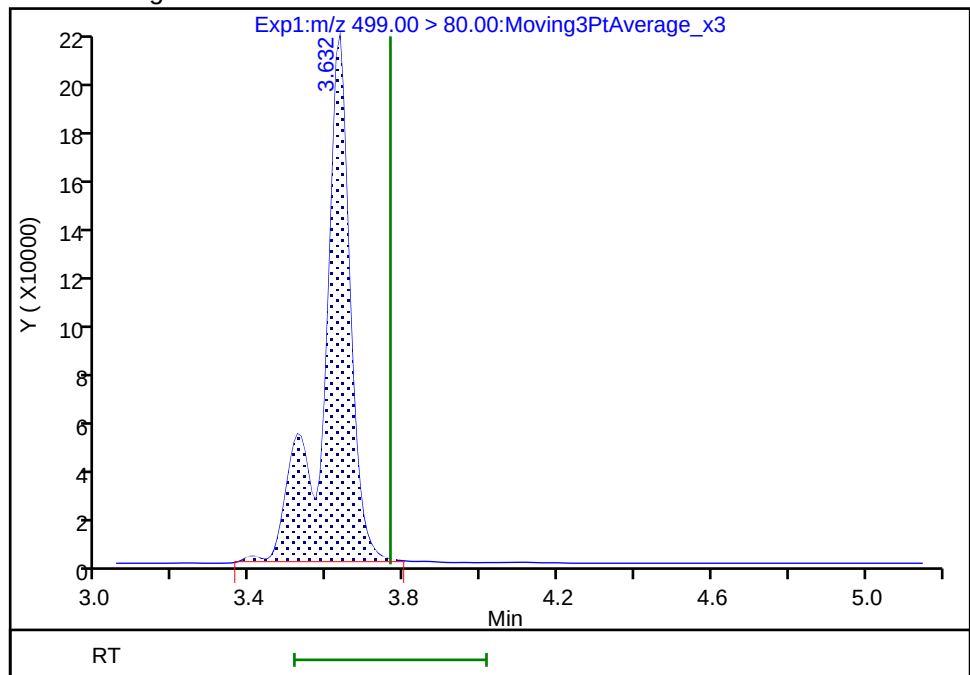
RT: 3.63
Area: 1065849
Amount: 0.925662
Amount Units: ng/ml

Processing Integration Results



RT: 3.63
Area: 1038732
Amount: 0.902112
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 04-Jan-2023 11:27:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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

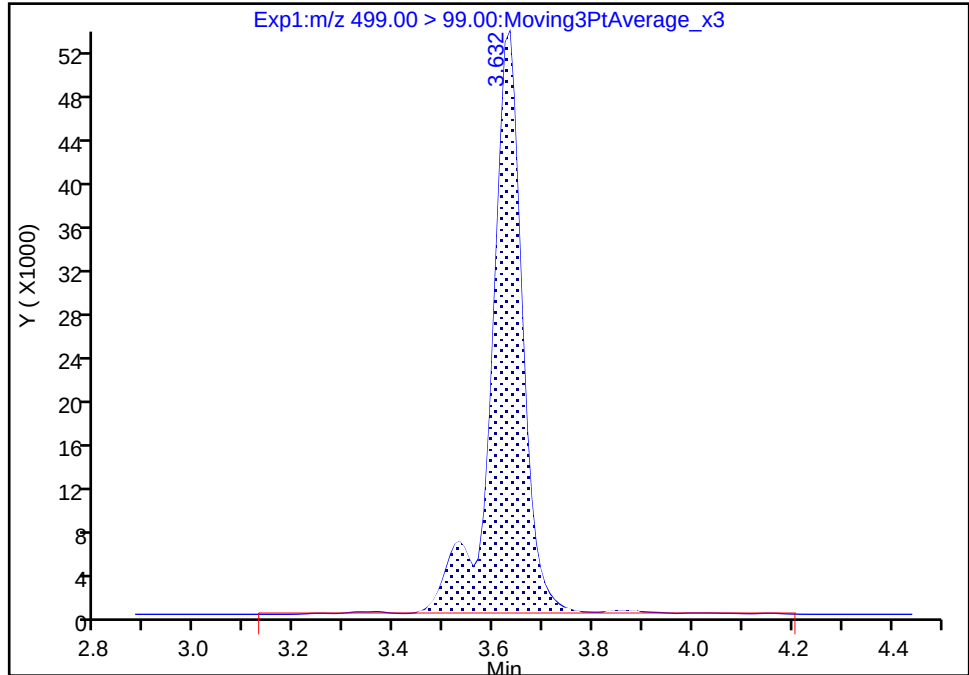
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

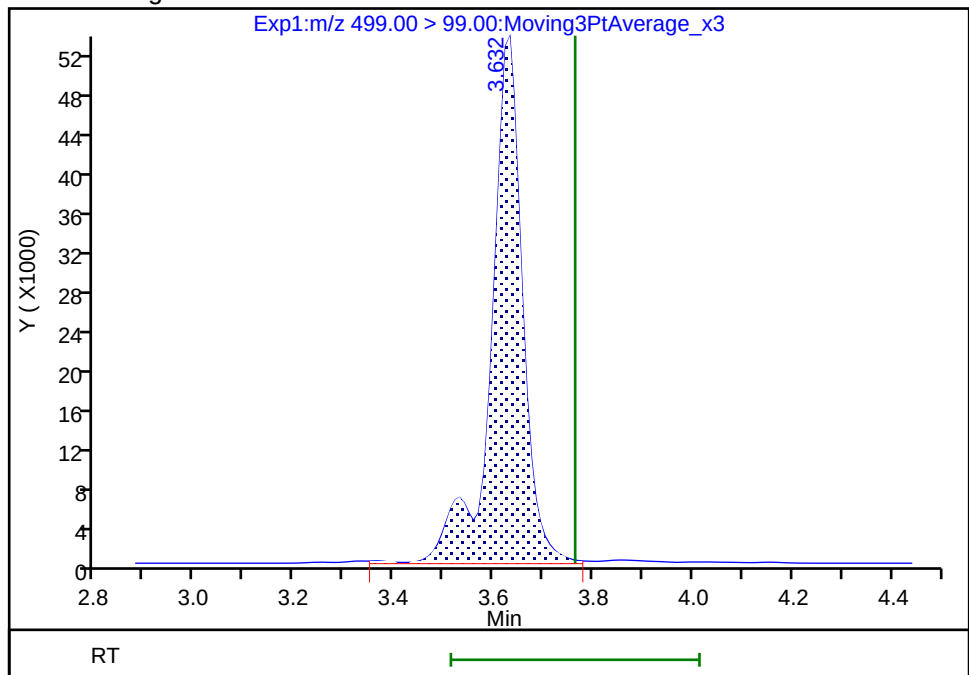
RT: 3.63
Area: 240251
Amount: 0.925662
Amount Units: ng/ml

Processing Integration Results



RT: 3.63
Area: 234033
Amount: 0.902112
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 04-Jan-2023 11:27:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1056 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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)

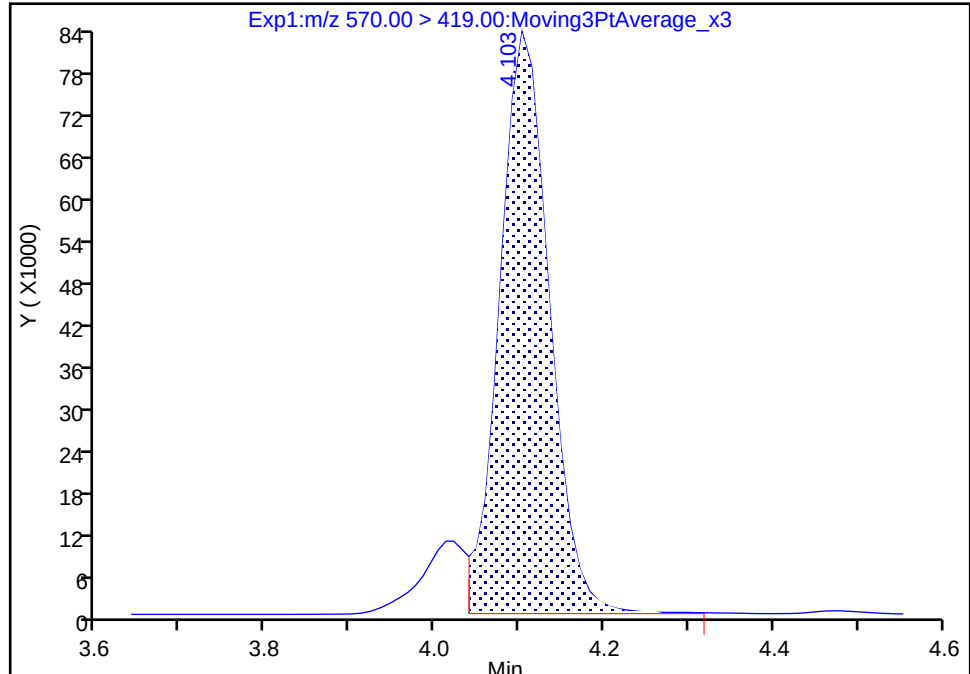
Detector: EXP1

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

Signal: 1

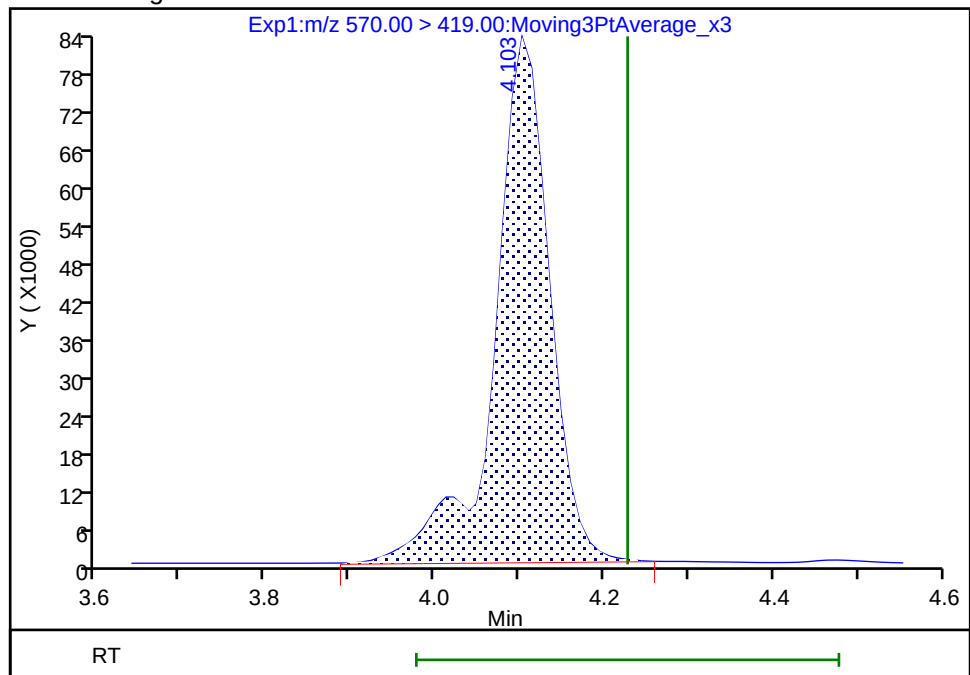
RT: 4.10
Area: 339007
Amount: 0.953164
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 375616
Amount: 1.057351
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:05:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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)

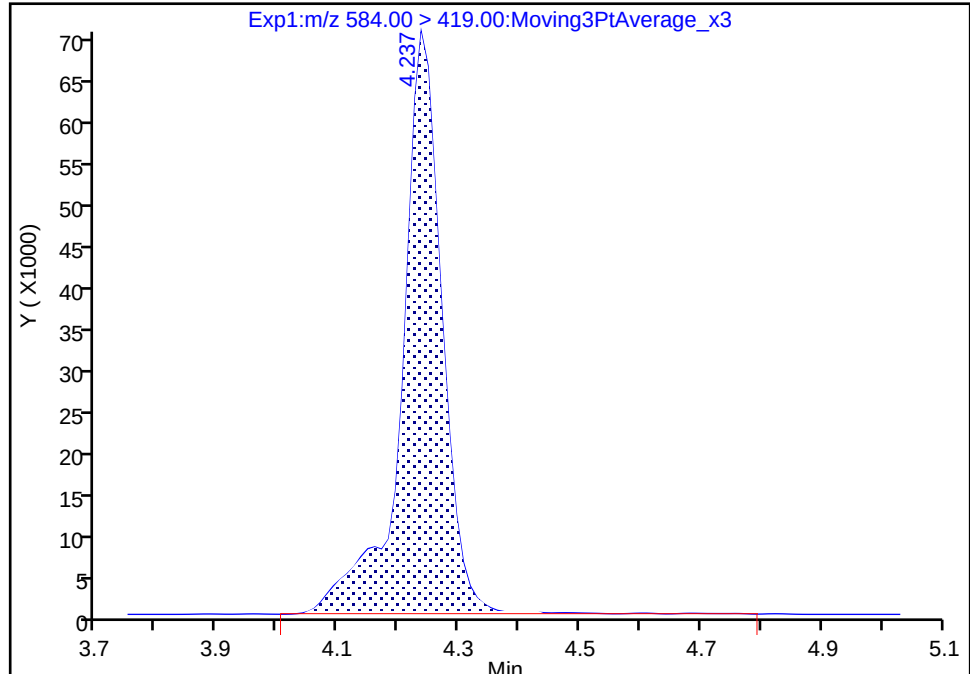
Detector: EXP1

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

Signal: 1

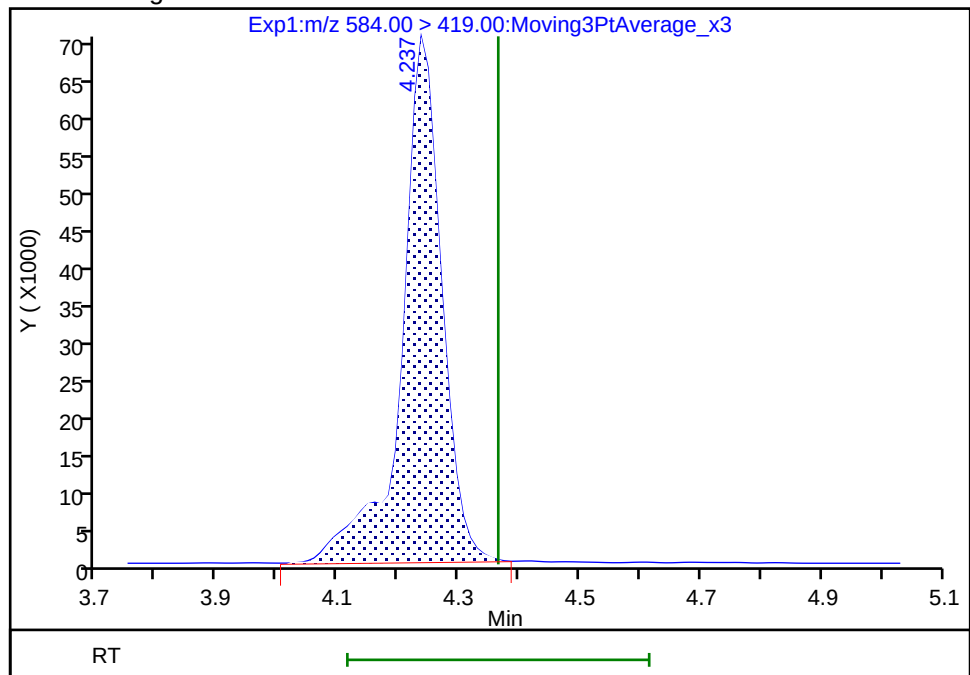
RT: 4.24
Area: 330271
Amount: 0.970932
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 324508
Amount: 0.953990
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:05:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53867.b\PA221230C04.d

Injection Date: 30-Dec-2022 22:50:11

Instrument ID: LC812

Lims ID: LCSD 200-187142/3-A

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)

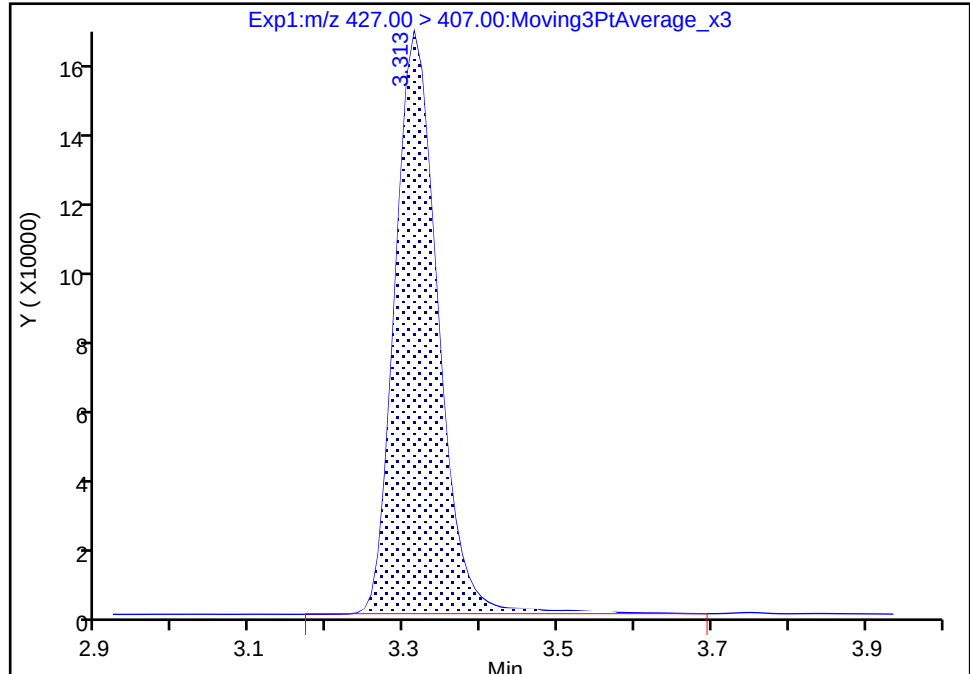
Detector: EXP1

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

Signal: 1

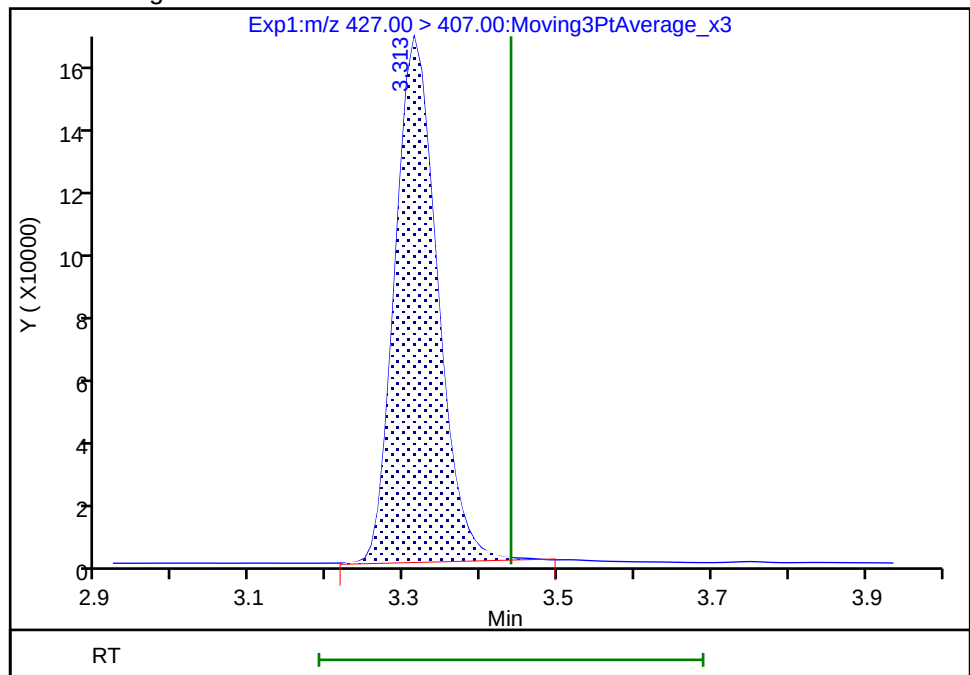
RT: 3.31
Area: 655348
Amount: 1.091141
Amount Units: ng/ml

Processing Integration Results



RT: 3.31
Area: 641193
Amount: 1.067317
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 04-Jan-2023 13:03:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 480-204901-A-3-B MS
 Matrix: Solid Lab File ID: PA221230A11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.13(g) Date Analyzed: 12/30/2022 14:06
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 9.3 % Solids: 90.7 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.087		0.54	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.125		0.21	0.059
307-24-4	Perfluorohexanoic acid (PFHxA)	2.097		0.21	0.049
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.991		0.21	0.042
335-67-1	Perfluorooctanoic acid (PFOA)	2.160		0.21	0.062
375-95-1	Perfluorononanoic acid (PFNA)	2.097		0.21	0.037
335-76-2	Perfluorodecanoic acid (PFDA)	2.064		0.21	0.030
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.000		0.21	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	2.016		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.031		0.21	0.027
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.008		0.21	0.028
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.852		0.21	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.916		0.21	0.044
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.048		0.21	0.025
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.166		0.21	0.020
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.909		0.21	0.12
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.089		0.21	0.037
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.165		2.15	0.12
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.069	J	2.15	0.089
27619-97-2	6:2 FTS	2.190		2.15	0.061
39108-34-4	8:2 FTS	2.251		2.15	0.040

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-271837-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>480-204901-A-3-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA221230A11.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: _____
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>12/28/2022 09:05</u>
Sample wt/vol: <u>5.13(g)</u>	Date Analyzed: <u>12/30/2022 14:06</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: <u>9.3</u> % Solids: <u>90.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>187177</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	107		50-150
STL00992	13C4 PFBA	87		50-150
STL00993	13C2 PFHxA	88		50-150
STL00996	13C2 PFDA	112		50-150
STL00997	13C2 PFUnA	116		50-150
STL00994	18O2 PFHxS	88		50-150
STL00998	13C2 PFDoA	105		50-150
STL00991	13C4 PFOS	85		50-150
STL01056	13C8 FOSA	75		50-150
STL01893	13C5 PFPeA	85		50-150
STL02116	13C2 PFTeDA	88		50-150
STL02118	d3-NMeFOSAA	152	*	50-150
STL02117	d5-NEtFOSAA	169	*	50-150
STL02279	M2-6:2 FTS	154	*	50-150
STL02337	13C3 PFBS	84		50-150
STL02280	M2-8:2 FTS	266	*	50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
 Lims ID: 480-204901-A-3-B MS
 Client ID: SS-12 MS
 Sample Type: MS
 Inject. Date: 30-Dec-2022 14:06:44 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-204901-A-3-B MS
 Misc. Info.: 200-0053865-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 09:34:03

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	2.078	2.076	0.002	0.608	3025494	1.08		86.6	6791	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.076	0.010	1.004	2424087	0.9712		97.1	129	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.378	2.387	-0.009	0.696	2270240	1.07		85.4	1749	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.378	2.387	-0.009	1.000	1956907	0.9887		98.9	19.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.392	2.400	-0.008	0.700	2262962	0.9790		84.2	86439	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.392	2.400	-0.008	1.000	1918628	0.8615	Target=2.09	97.5	125	
298.90 > 99.00	2.392	2.400	-0.008	1.000	917442		2.09(1.04-3.13)		113	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.685	2.689	-0.004	1.000	664387	0.8768		93.9	1008	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.685	2.689	-0.004	0.785	287151	1.41		120	66.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.709	2.725	-0.016	0.792	2450567	1.10		87.9	2582	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.709	2.725	-0.016	1.000	2084049	0.9756	Target=14.25	97.6	34.4	M
313.00 > 119.00	2.709	2.725	-0.016	1.000	143151		14.56(7.12-21.37)		63.4	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.721	2.737	-0.016	0.886	1705340	0.8589	Target=3.04	91.6	109	M
349.00 > 99.00	2.721	2.737	-0.016	0.886	600824		2.84(1.52-4.56)		358	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.818	2.835	-0.017	1.000	357011	0.9507		95.1	1711	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.818	2.835	-0.017	0.824	444545	1.13		90.4	2071	
D 11 18O2 PFHxS										
403.00 > 84.00	3.072	3.088	-0.016	0.899	1758199	1.04		88.3	3480	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.072	3.088	-0.016	1.000	1496035	0.8915	Target=3.66	98.0	92.2	M
399.00 > 99.00	3.072	3.088	-0.016	1.000	436836		3.42(1.83-5.49)		177	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.072	3.099	-0.027	0.899	2621744	1.14		91.5	3287	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.072	3.099	-0.027	1.000	2115096	0.9262	Target=3.97	92.6	37.1	M
363.00 > 169.00	3.072	3.099	-0.027	1.000	547461		3.86(1.98-5.95)		487	M
77 DONA										
377.00 > 251.00	3.117	3.132	-0.015	0.835	5217775	0.9786	Target=3.16	104	1119	M
377.00 > 85.00	3.106	3.132	-0.026	0.832	1700211		3.07(1.58-4.73)		826	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.410	3.439	-0.029	0.997	517130	1.83		154	61.8	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.410	3.439	-0.029	1.000	948301	1.02		107	438	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.410	3.439	-0.029	0.914	1288554	0.9528	Target=5.14	100	74.7	M
449.00 > 99.00	3.410	3.439	-0.029	0.914	266789		4.83(2.57-7.72)		240	M
D 14 13C4 PFOA										
417.00 > 372.00	3.418	3.448	-0.030	1.000	3120277	1.21		96.8	2598	
* 62 13C2 PFOA										
415.00 > 370.00	3.418	3.448	-0.030		3113024	1.25			4360	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.418	3.448	-0.030	1.000	2681445	1.00	Target=2.79	100	50.8	
413.00 > 169.00	3.418	3.448	-0.030	1.000	934893		2.87(1.40-4.19)		731	
D 18 13C4 PFOS										
503.00 > 80.00	3.732	3.764	-0.032	1.092	1157037	1.01		84.7	62.1	M
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.732	3.764	-0.032	1.000	1045618	0.8880	Target=5.11	95.7	56.6	M
499.00 > 99.00	3.732	3.764	-0.032	1.000	245466		4.26(2.55-7.66)		161	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.751	3.783	-0.032	1.000	2715250	0.9759	Target=8.55	97.6	90.6	
463.00 > 169.00	3.751	3.783	-0.032	1.000	309555		8.77(4.28-12.83)		620	
D 19 13C5 PFNA										
468.00 > 423.00	3.751	3.783	-0.032	1.097	3352662	1.34		107	3100	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.889	3.928	-0.039	1.042	2577137	0.9536		102	1809	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.023	4.050	-0.027	1.078	838573	0.9435	Target=2.53	98.3	55.6	M
549.00 > 99.00	4.023	4.050	-0.027	1.078	347065		2.42(1.27-3.80)		324	
D 23 13C2 PFDA										
515.00 > 470.00	4.050	4.081	-0.031	1.185	3576404	1.40		112	3789	

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	4.050	4.081	-0.031	1.000	2979031	0.9601	Target=10.26	96.0	130	
513.00 > 169.00	4.050	4.081	-0.031	1.000	286531		10.40(5.13-15.38)		310	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.060	4.093	-0.033	1.188	1098717	3.18		266	74.5	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.060	4.093	-0.033	1.000	1553593	1.05		109	3428	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.115	4.150	-0.035	1.000	1597732	0.9721		97.2	1640	
D 21 13C8 FOSA										
506.00 > 78.00	4.115	4.150	-0.035	1.204	1966424	0.9397		75.2	1747	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.195	4.228	-0.033	1.227	985742	1.90		152	705	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.195	4.228	-0.033	1.000	691217	1.01		101	758	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.285	4.331	-0.046	1.148	707129	1.01	Target=2.51	105	64.6	
599.00 > 99.00	4.285	4.331	-0.046	1.148	260677		2.71(1.25-3.76)		375	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.353	-0.034	1.263	3393048	1.45		116	3119	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.319	4.353	-0.034	1.000	2545565	0.9305	Target=9.88	93.1	178	M
563.00 > 169.00	4.319	4.353	-0.034	1.000	273035		9.32(4.94-14.82)		671	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.330	4.365	-0.035	1.000	746470	0.9628		96.3	691	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.330	4.365	-0.035	1.267	1082512	2.12		169	974	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.409	4.454	-0.045	1.181	3770982	0.9052		96.1	4213	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.555	4.591	-0.036	1.000	2487172	0.9379	Target=7.77	93.8	240	
613.00 > 169.00	4.555	4.591	-0.036	1.000	336661		7.39(3.89-11.66)		698	
D 36 13C2 PFDaA										
615.00 > 570.00	4.555	4.591	-0.036	1.332	3128780	1.31		105	2161	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.567	4.612	-0.045	1.125	920542	1.03		107	3554	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.730	4.776	-0.046	1.267	229643	0.7734	Target=0.50	79.9	49.2	M
699.00 > 99.00	4.730	4.776	-0.046	1.267	460225		0.50(0.25-0.76)		949	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.766	4.804	-0.038	1.047	2396148	0.9448	Target=5.21	94.5	223	
663.00 > 169.00	4.766	4.804	-0.038	1.047	407559		5.88(2.60-7.81)		793	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.961	5.012	-0.051	1.000	231318	0.9341	Target=0.89	93.4	753	
713.00 > 219.00	4.951	5.012	-0.061	0.998	247933		0.93(0.44-1.33)		607	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.961	5.012	-0.051	1.451	2261191	1.10		87.8	3864	

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	5.311	5.367	-0.056	1.000	1237225	1.02	Target=5.65	102	250	
813.00 > 169.00	5.311	5.367	-0.056	1.000	200062		6.18(2.82-8.47)		734	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.311	5.367	-0.056	1.554	1615693	0.6345		50.8	3115	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.649	5.722	-0.073	1.064	941602	0.8845	Target=6.24	88.5	350	
913.00 > 169.00	5.649	5.722	-0.073	1.064	141745		6.64(3.12-9.36)		409	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d

Injection Date: 30-Dec-2022 14:06:44

Instrument ID: LC812

Lims ID: 480-204901-A-3-B MS

Client ID: SS-12 MS

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

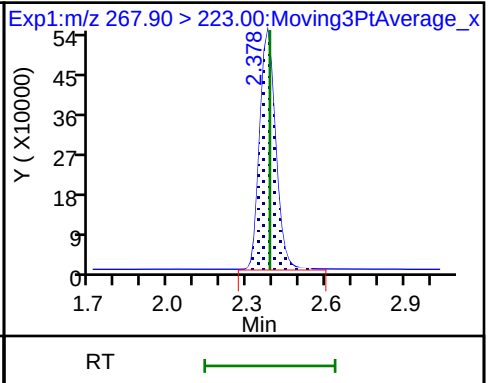
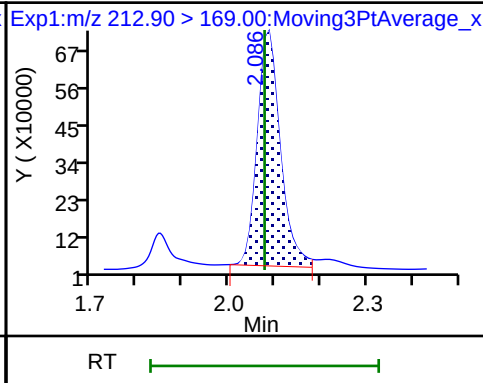
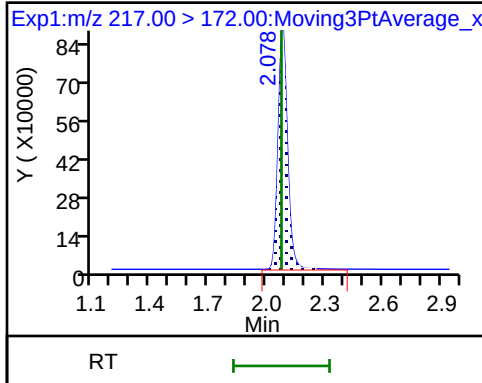
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

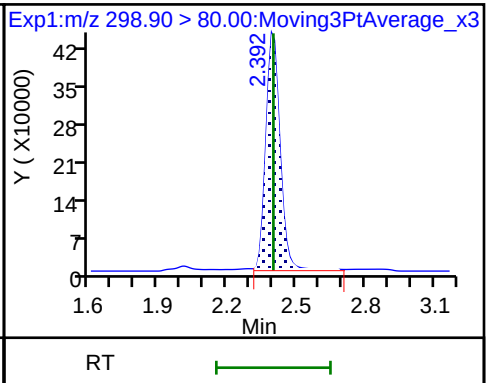
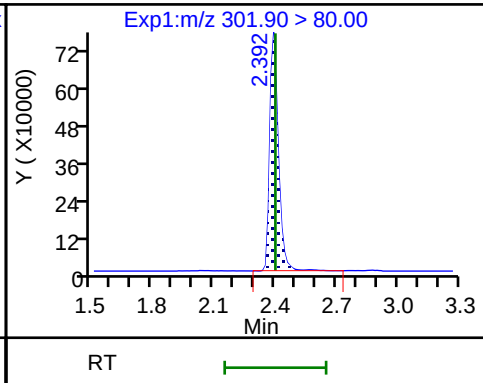
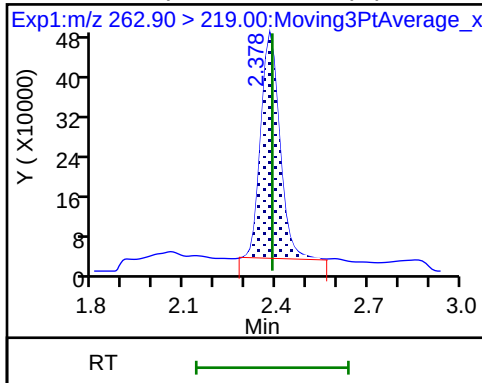
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

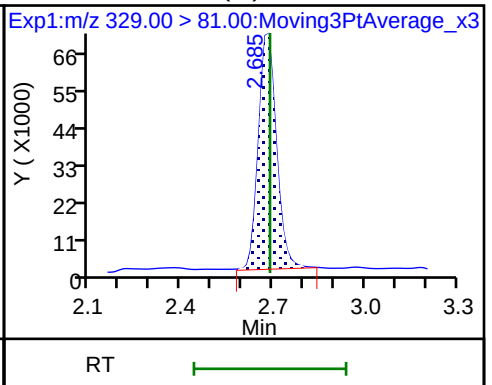
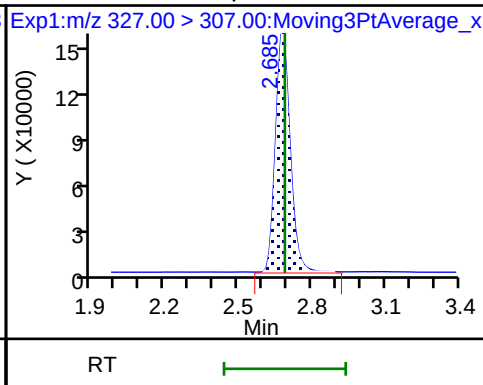
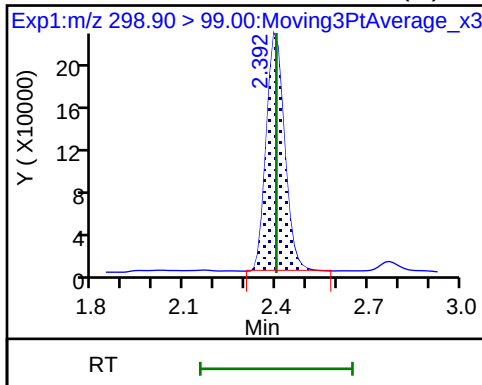
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo

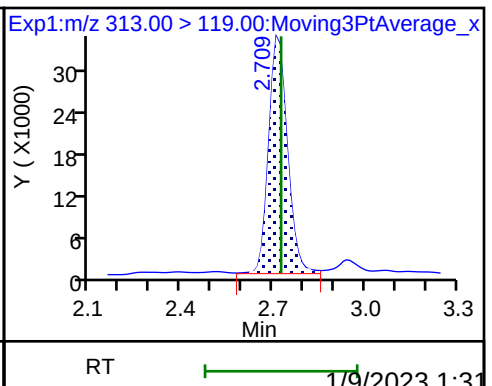
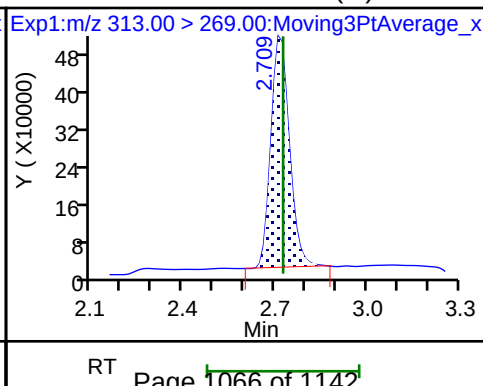
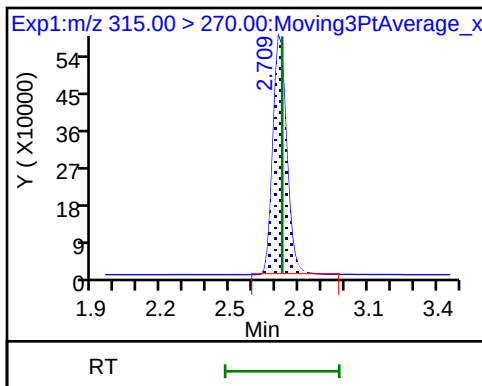
D 60 M2-4:2 FTS (M)

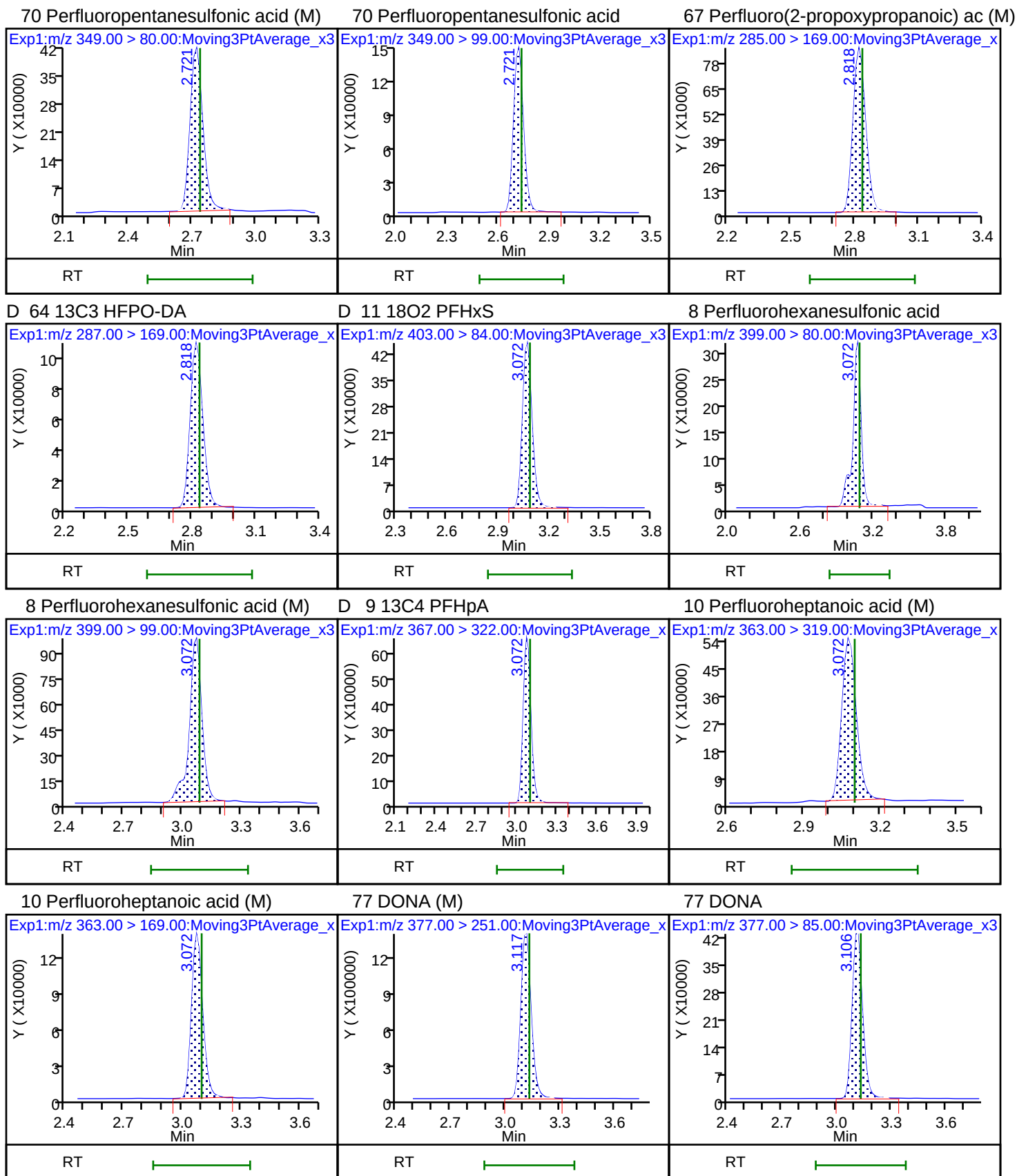


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

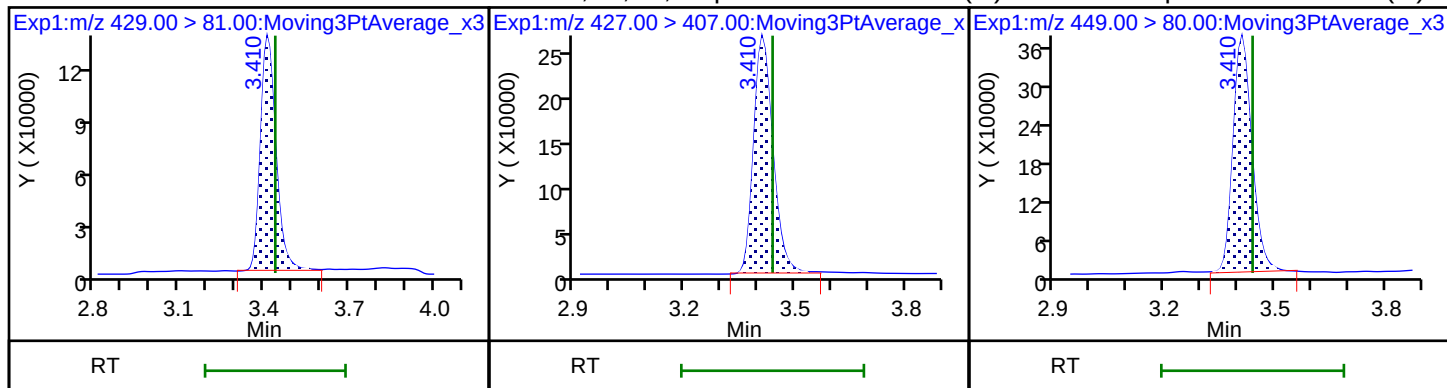
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

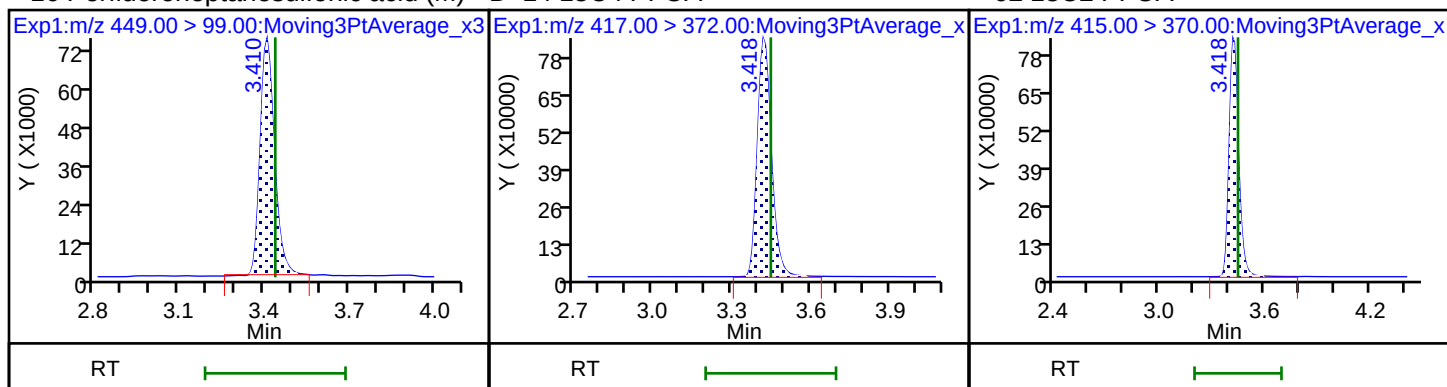
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid (M)

D 14 13C4 PFOA

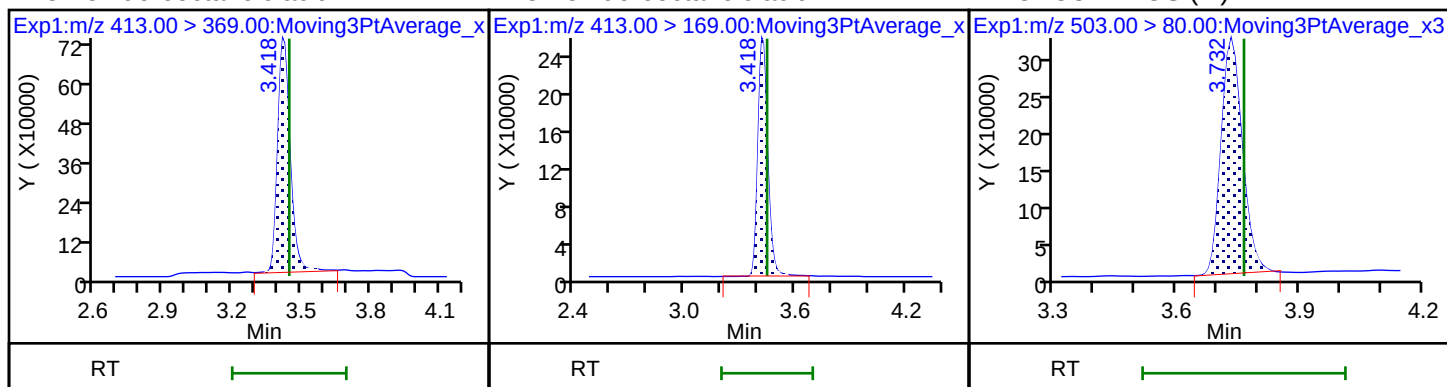
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

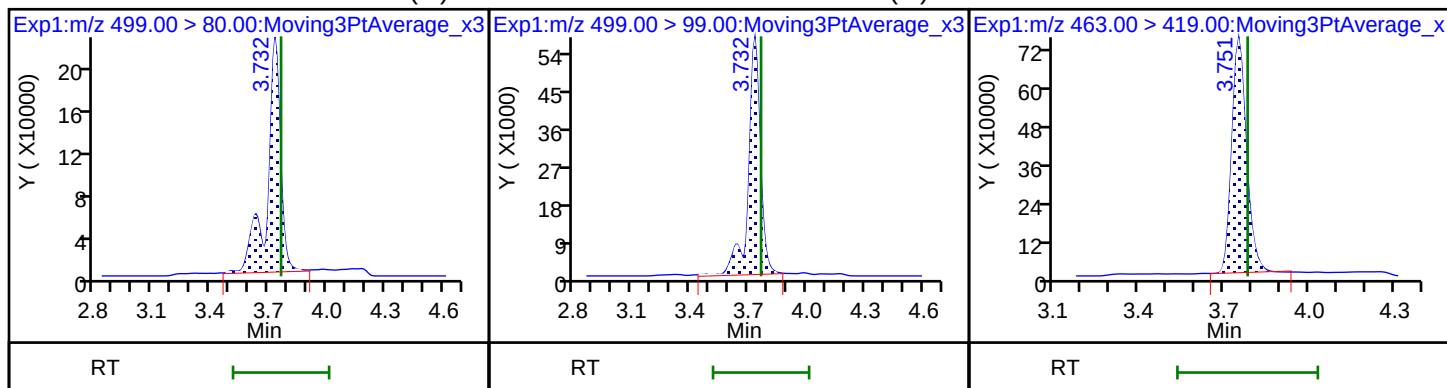
D 18 13C4 PFOS (M)

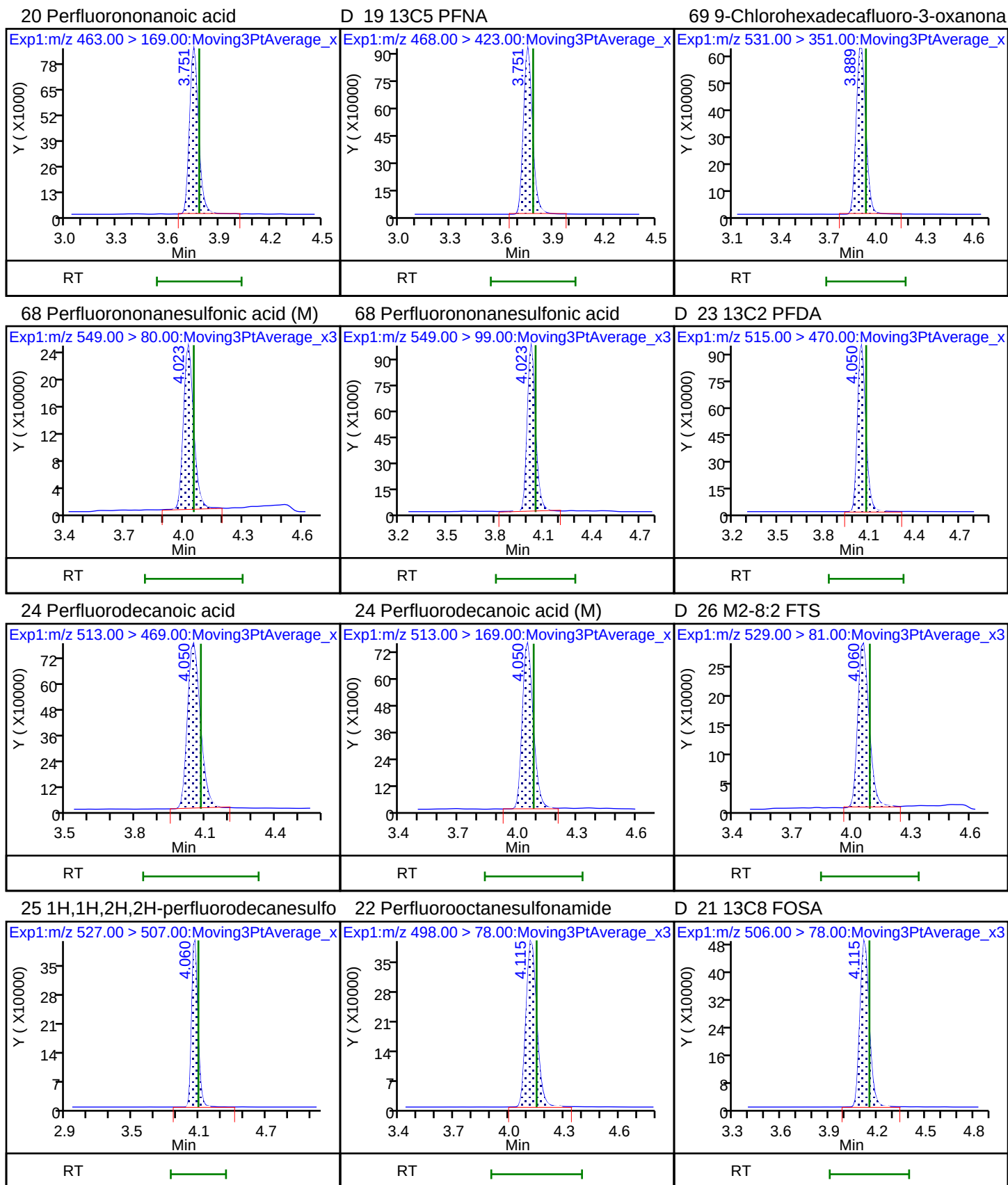


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

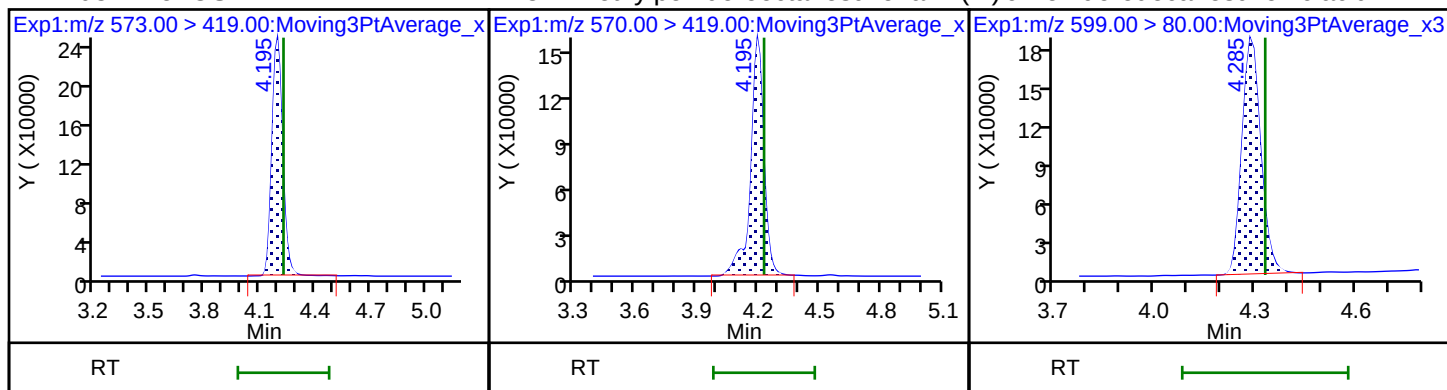
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

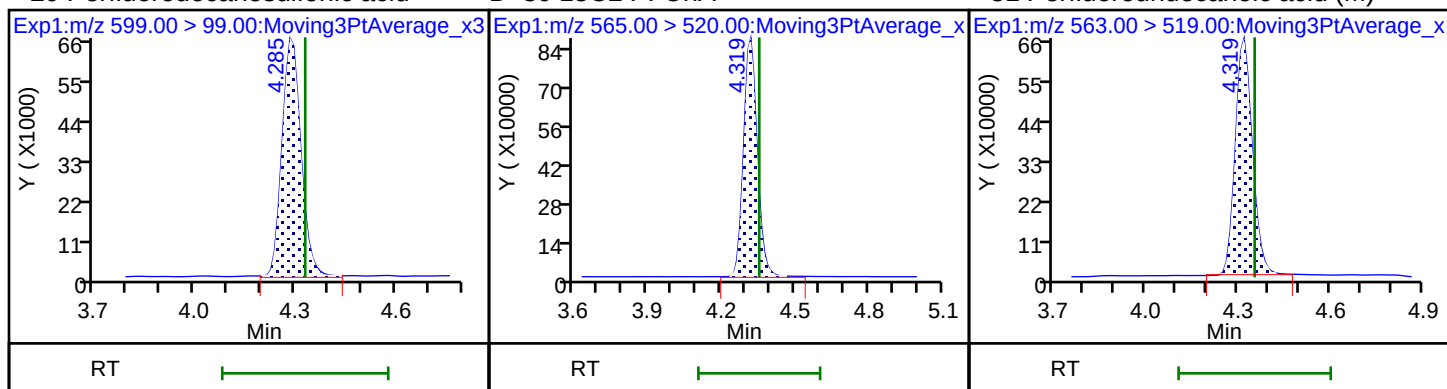
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

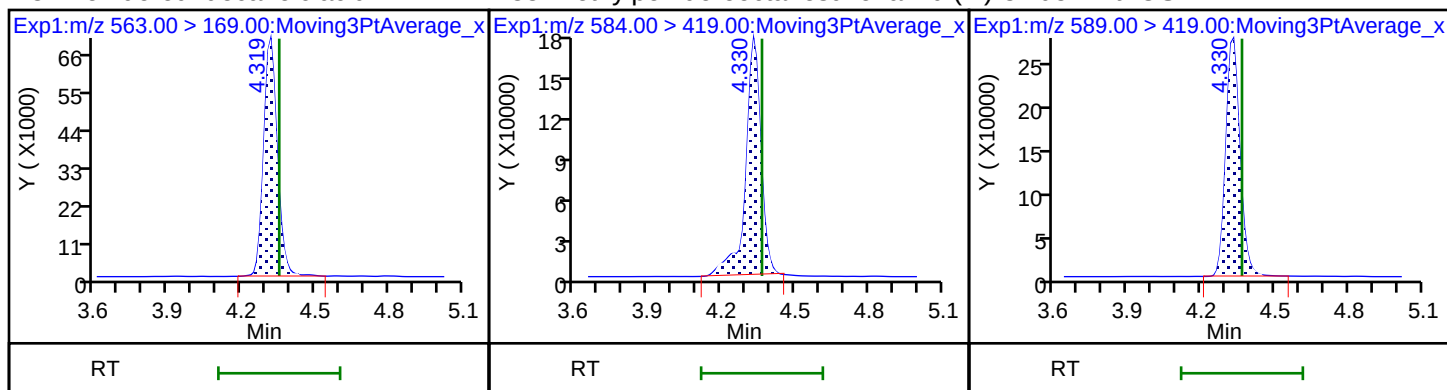
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

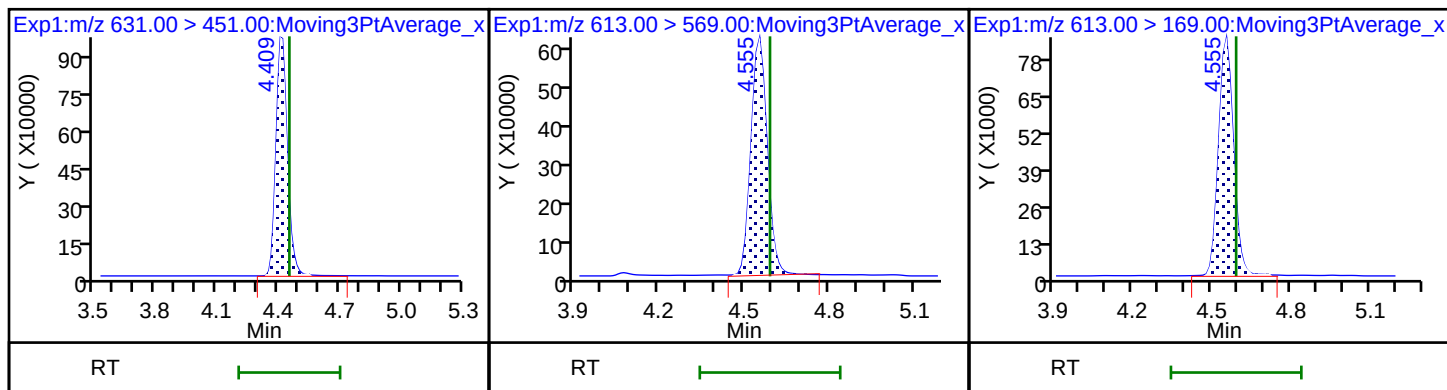
33 N-ethylperfluorooctanesulfonamid (M) 32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

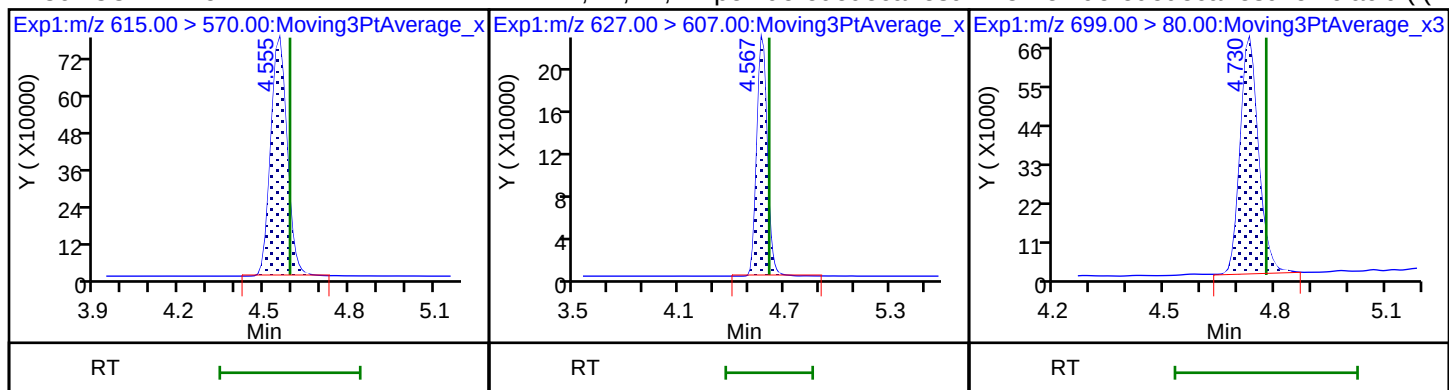
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

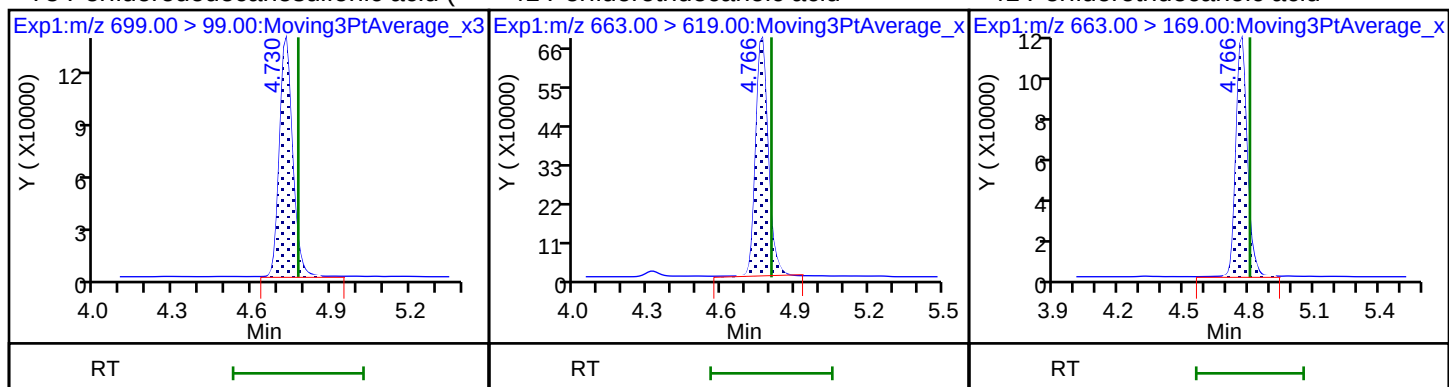
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

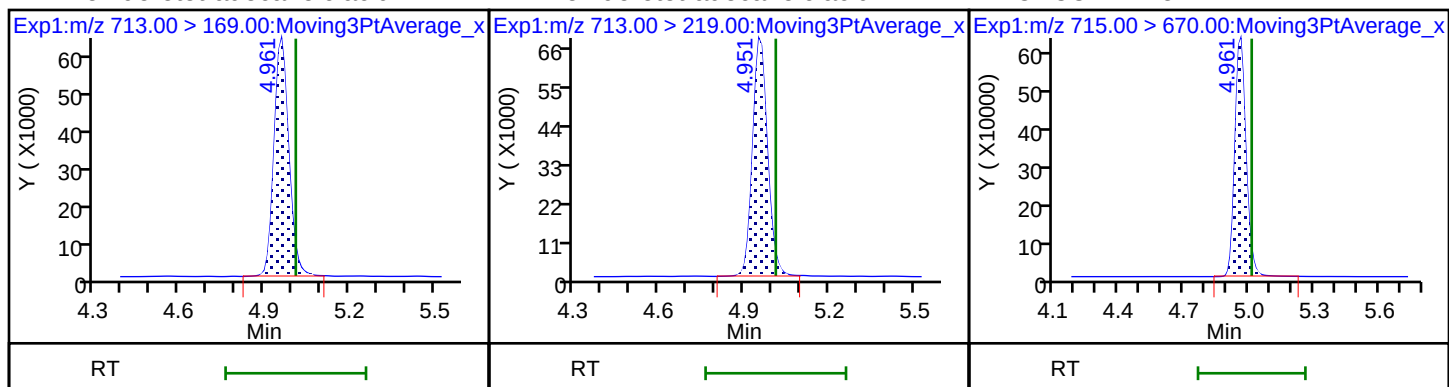
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

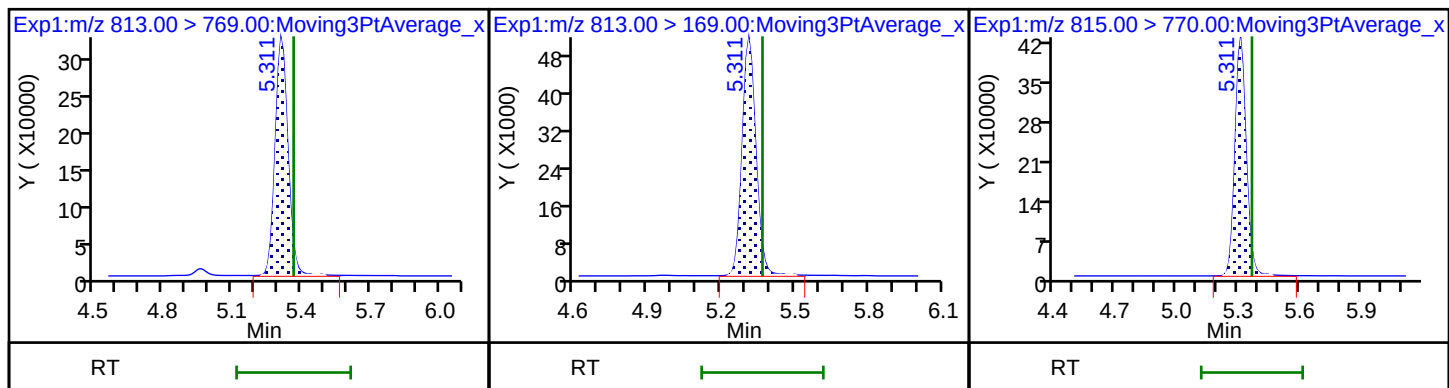
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

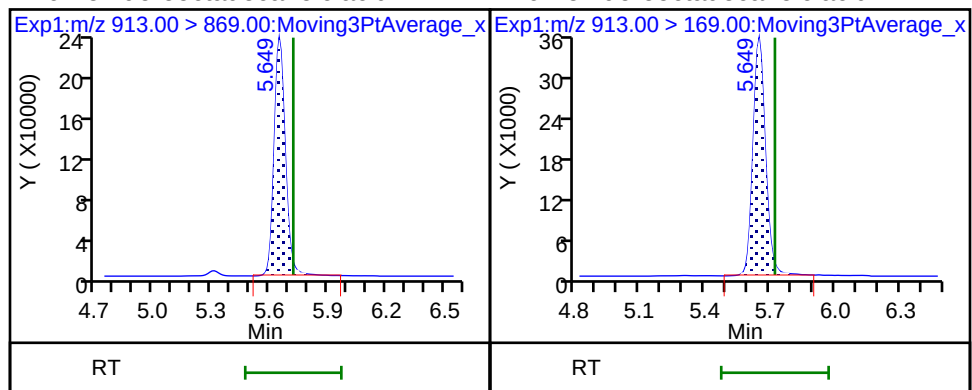
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

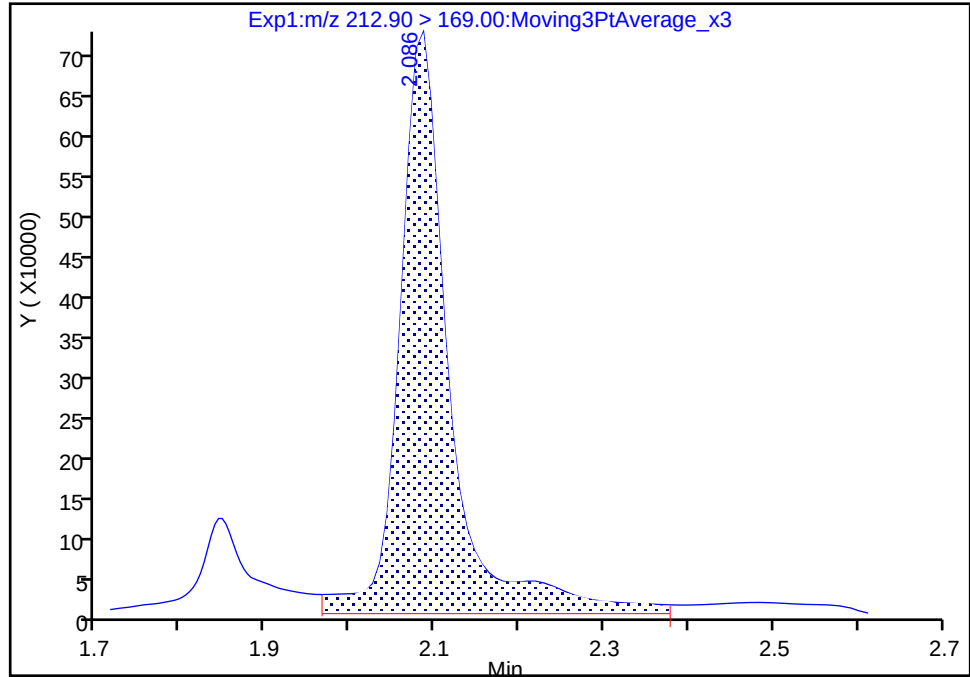
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

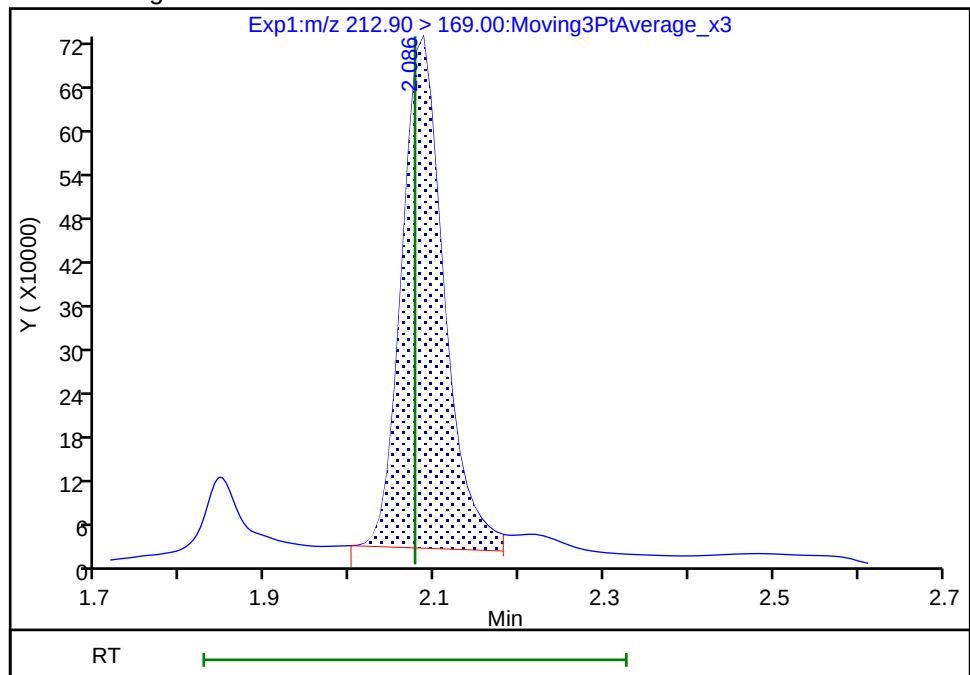
RT: 2.09
Area: 3005995
Amount: 1.204372
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2424087
Amount: 0.971227
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:30:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

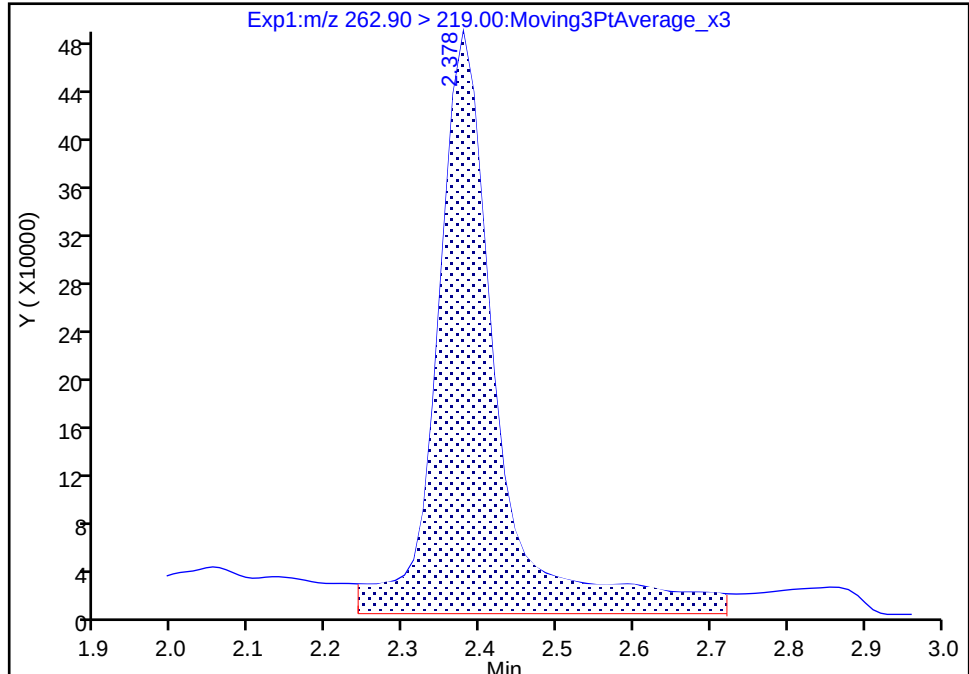
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

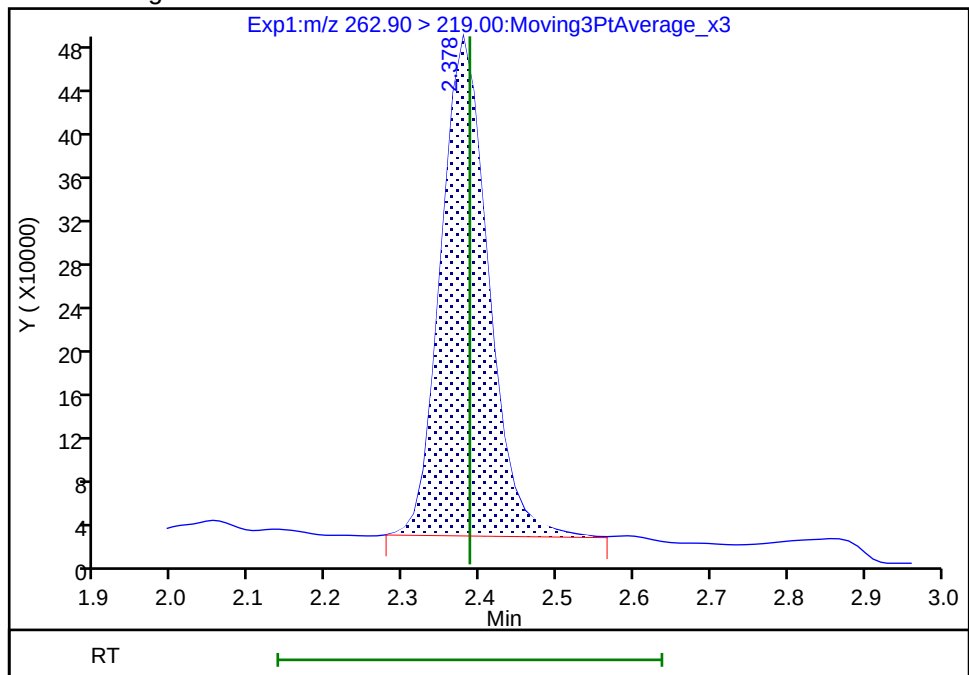
RT: 2.38
Area: 2642843
Amount: 1.335219
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1956907
Amount: 0.988670
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:30:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1074 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

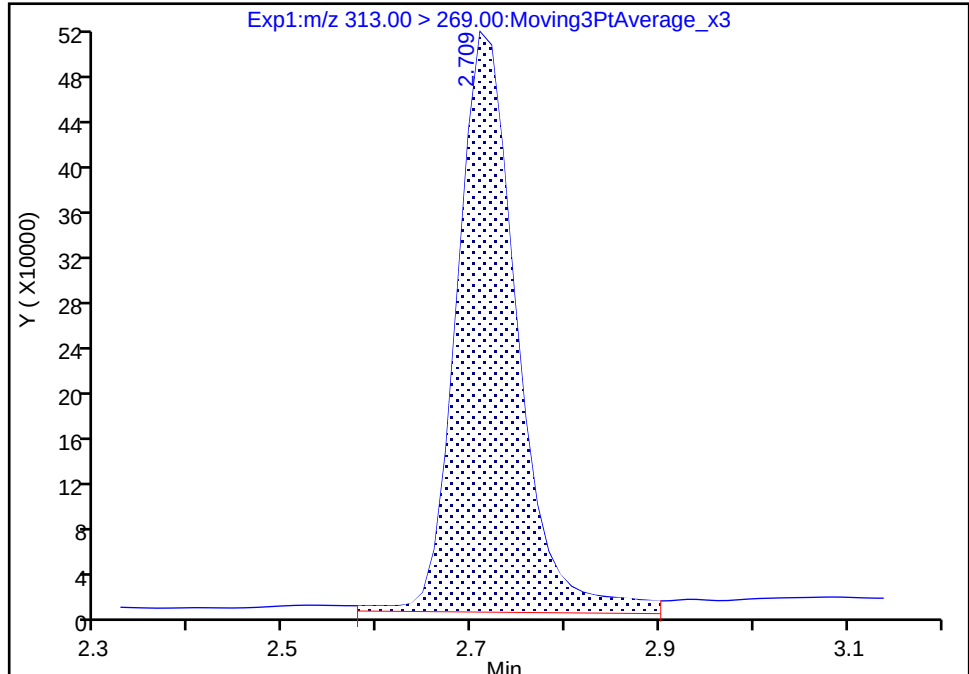
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d		
Injection Date:	30-Dec-2022 14:06:44	Instrument ID:	LC812
Lims ID:	480-204901-A-3-B MS		
Client ID:	SS-12 MS		
Operator ID:	lc812tech	ALS Bottle#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	11

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

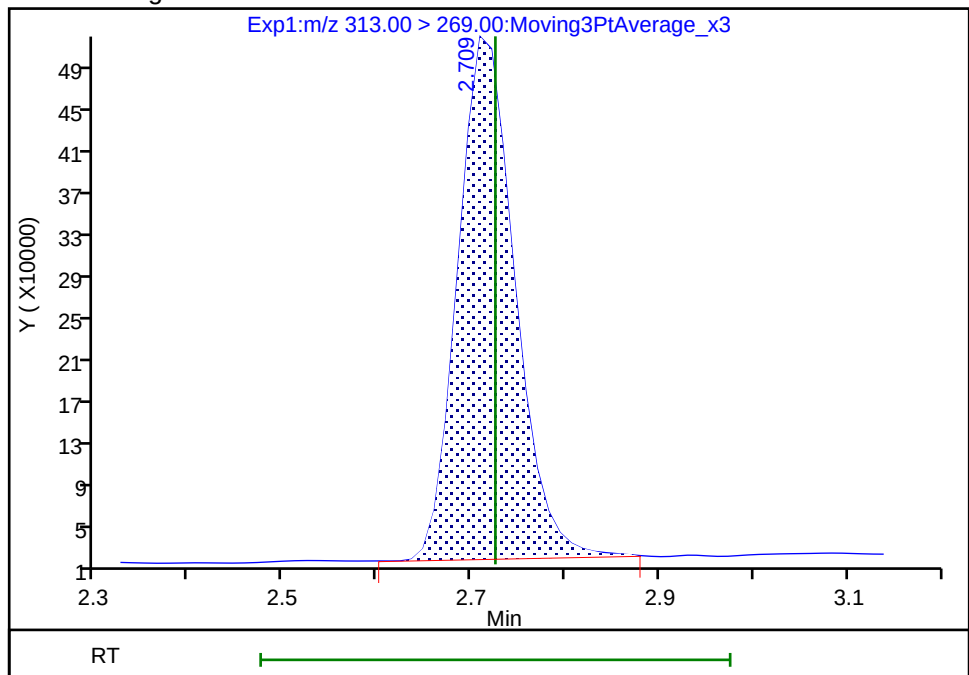
RT: 2.71
Area: 2241641
Amount: 1.049393
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 2084049
Amount: 0.975619
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

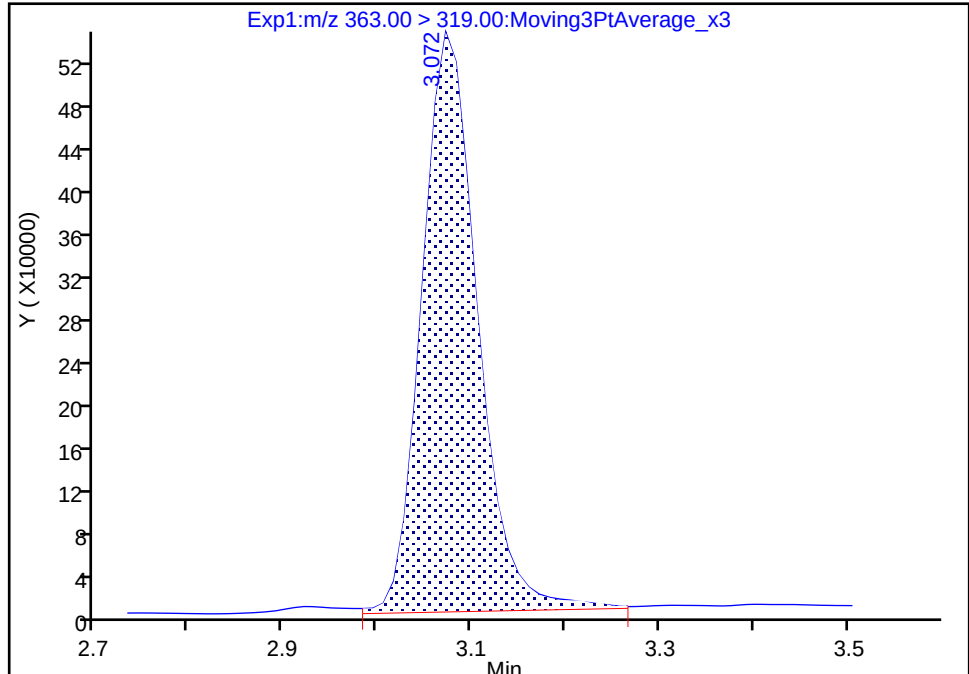
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d		
Injection Date:	30-Dec-2022 14:06:44	Instrument ID:	LC812
Lims ID:	480-204901-A-3-B MS		
Client ID:	SS-12 MS		
Operator ID:	lc812tech	ALS Bottle#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	11

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

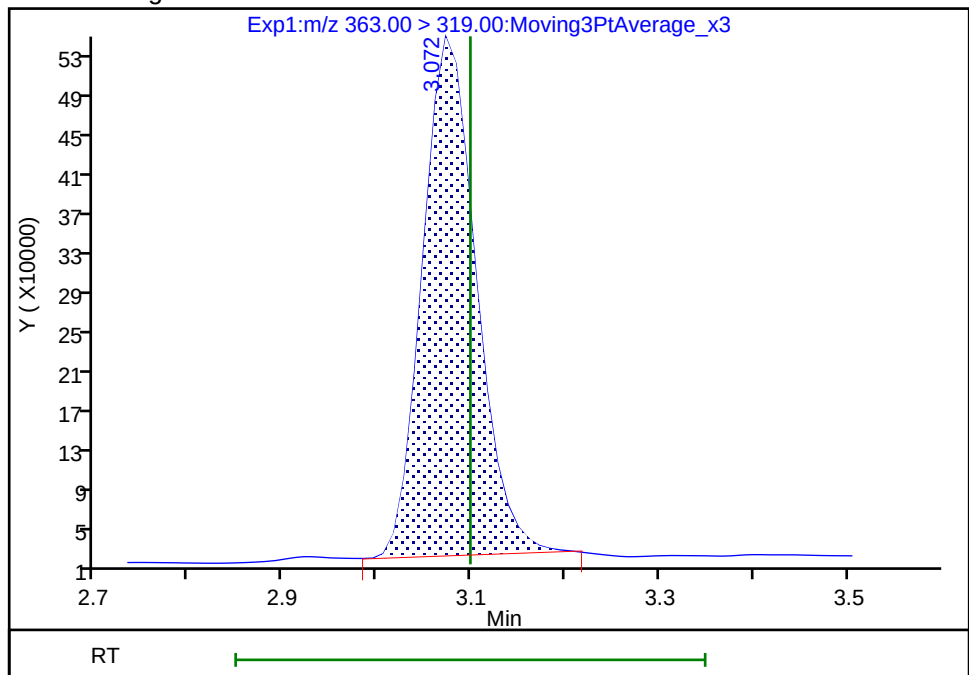
RT: 3.07
Area: 2208200
Amount: 0.966979
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 2115096
Amount: 0.926208
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

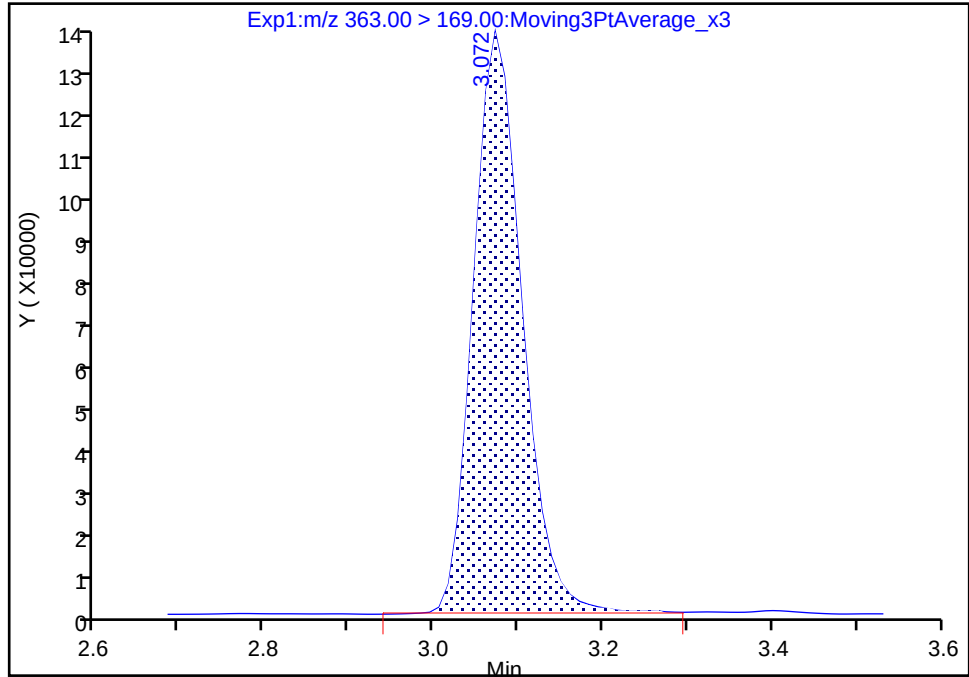
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

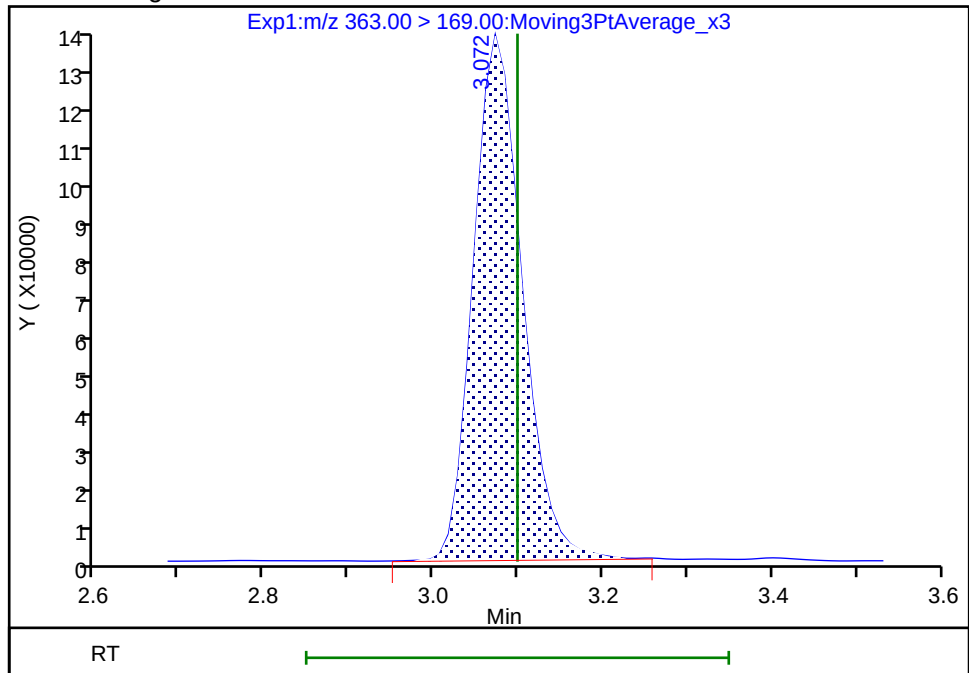
RT: 3.07
Area: 556117
Amount: 0.966979
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 547461
Amount: 0.926208
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1077 of 11421/9/2023 1:31
PM

Eurofins Burlington

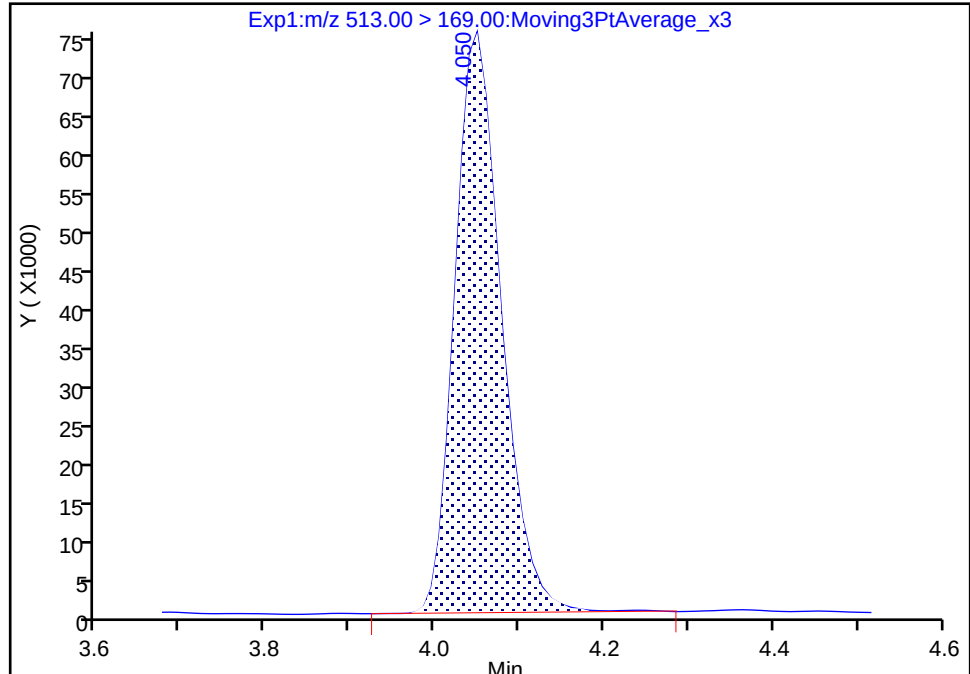
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

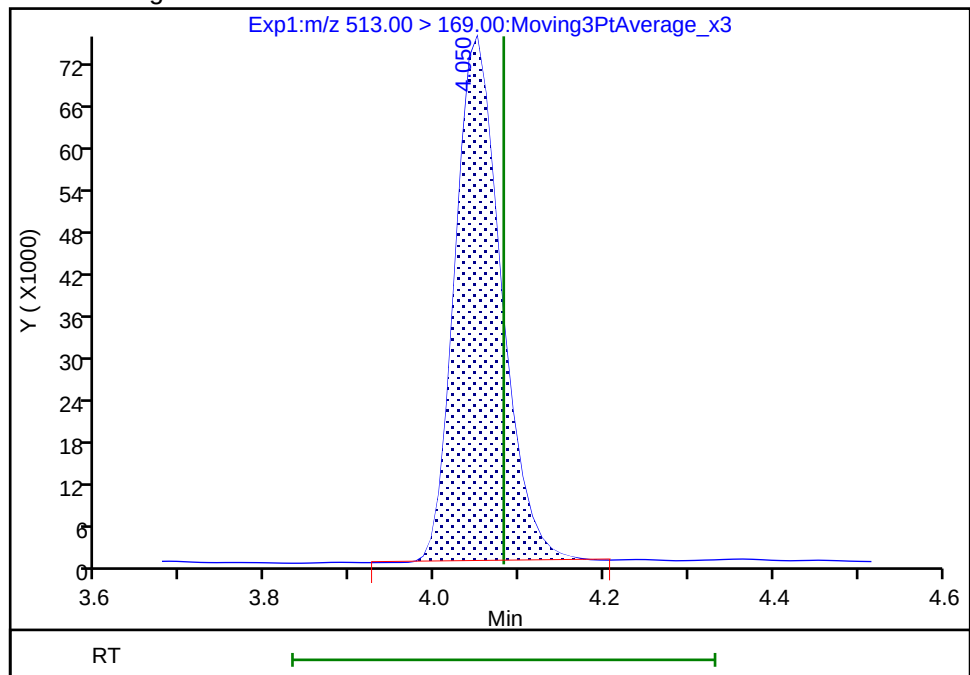
RT: 4.05
Area: 289303
Amount: 0.960115
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 286531
Amount: 0.960115
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:33:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

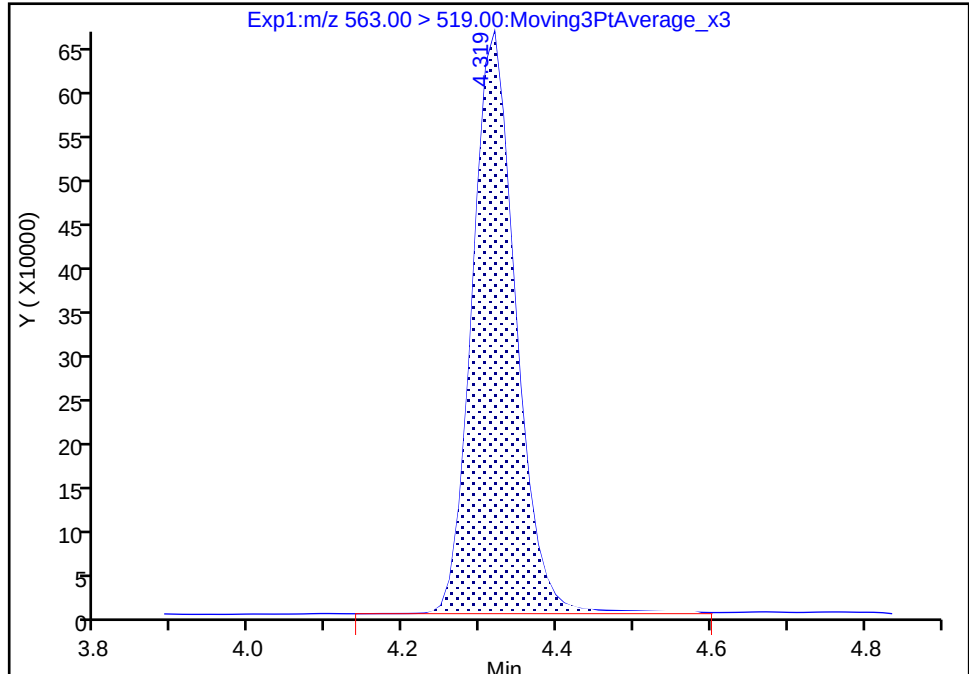
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d		
Injection Date:	30-Dec-2022 14:06:44	Instrument ID:	LC812
Lims ID:	480-204901-A-3-B MS		
Client ID:	SS-12 MS		
Operator ID:	lc812tech	ALS Bottle#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	11

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

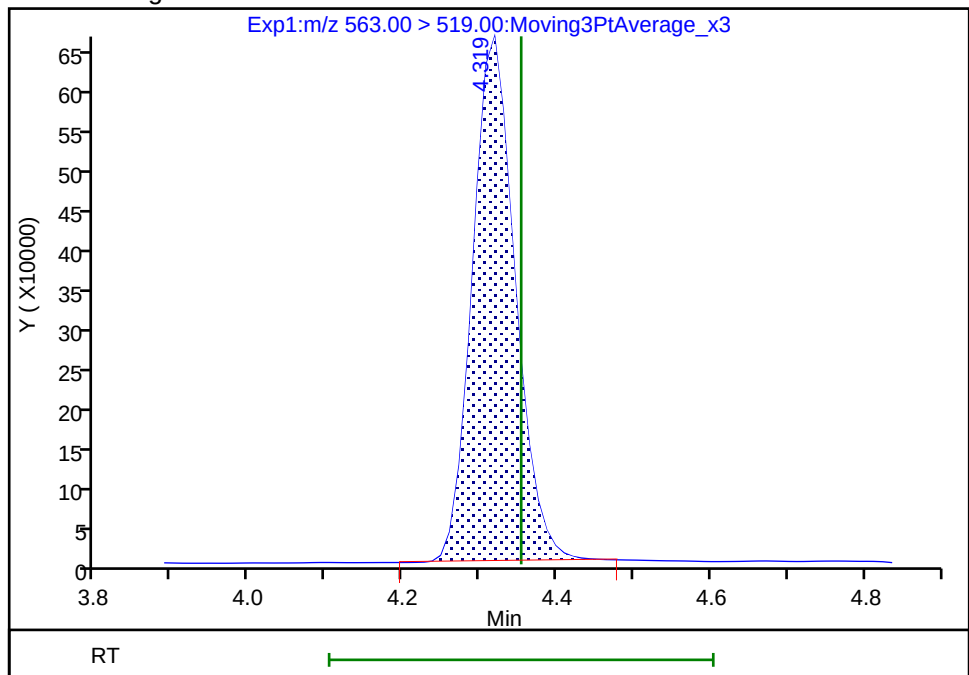
RT: 4.32
Area: 2582830
Amount: 0.944149
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 2545565
Amount: 0.930527
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:33:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

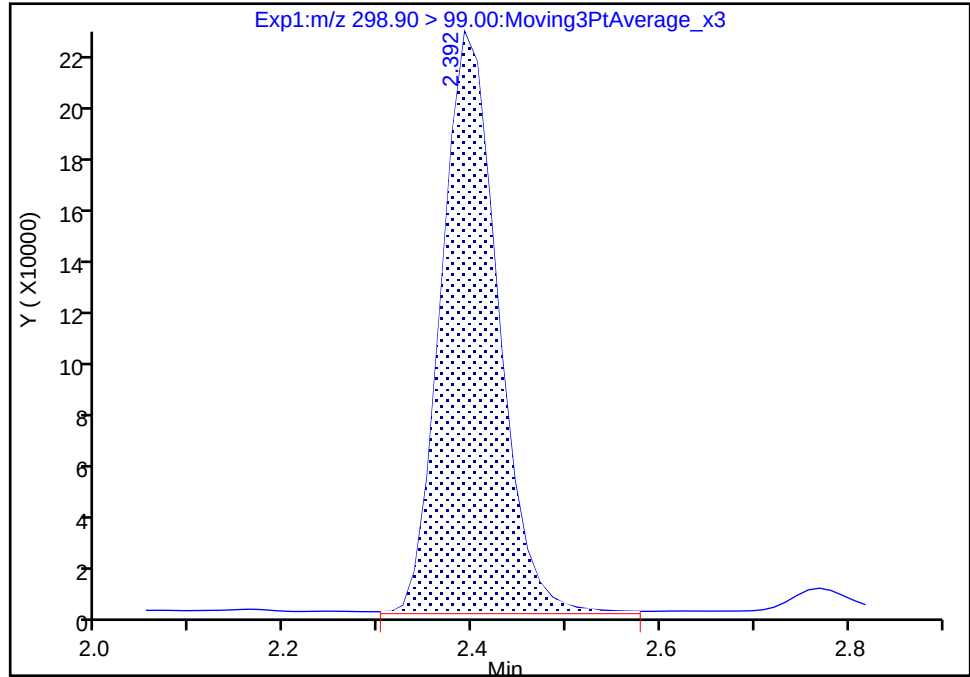
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

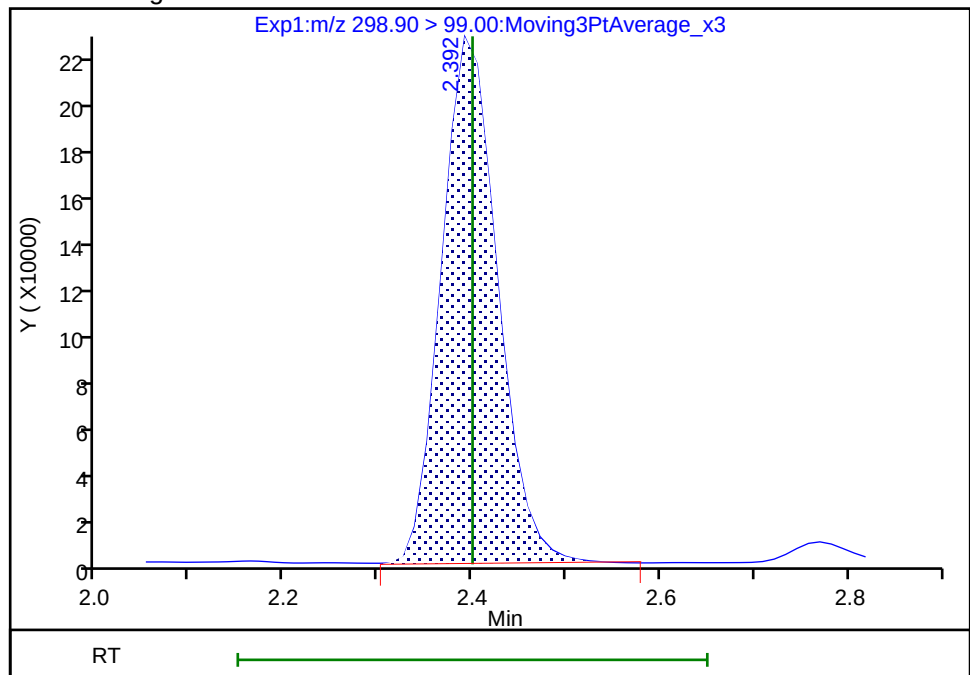
RT: 2.39
Area: 935376
Amount: 0.861486
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 917442
Amount: 0.861486
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:30:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1080 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

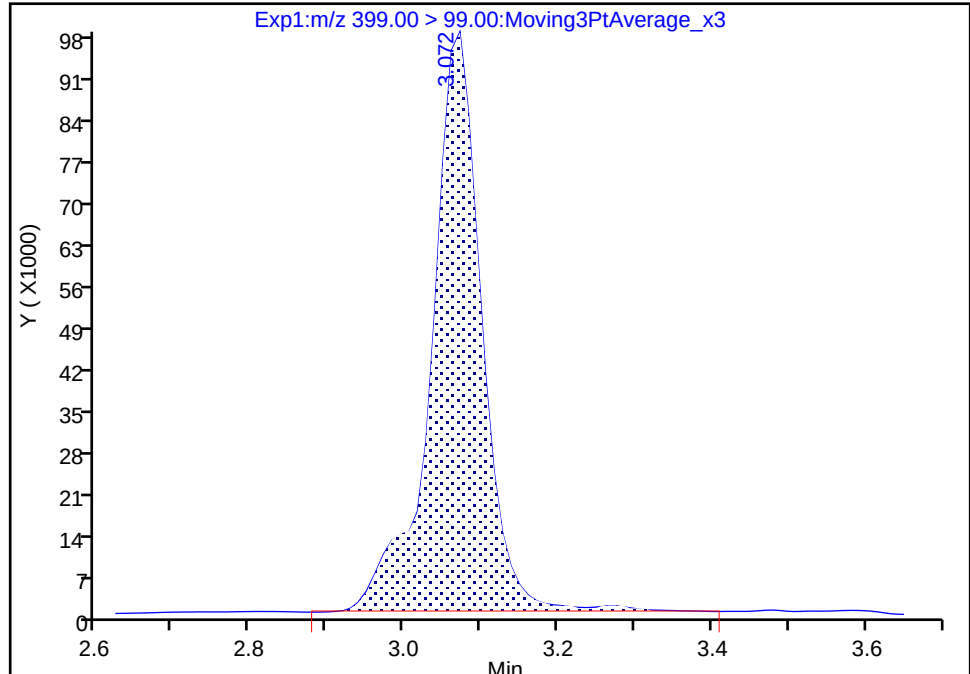
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d		
Injection Date:	30-Dec-2022 14:06:44	Instrument ID:	LC812
Lims ID:	480-204901-A-3-B MS		
Client ID:	SS-12 MS		
Operator ID:	lc812tech	ALS Bottle#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	11

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

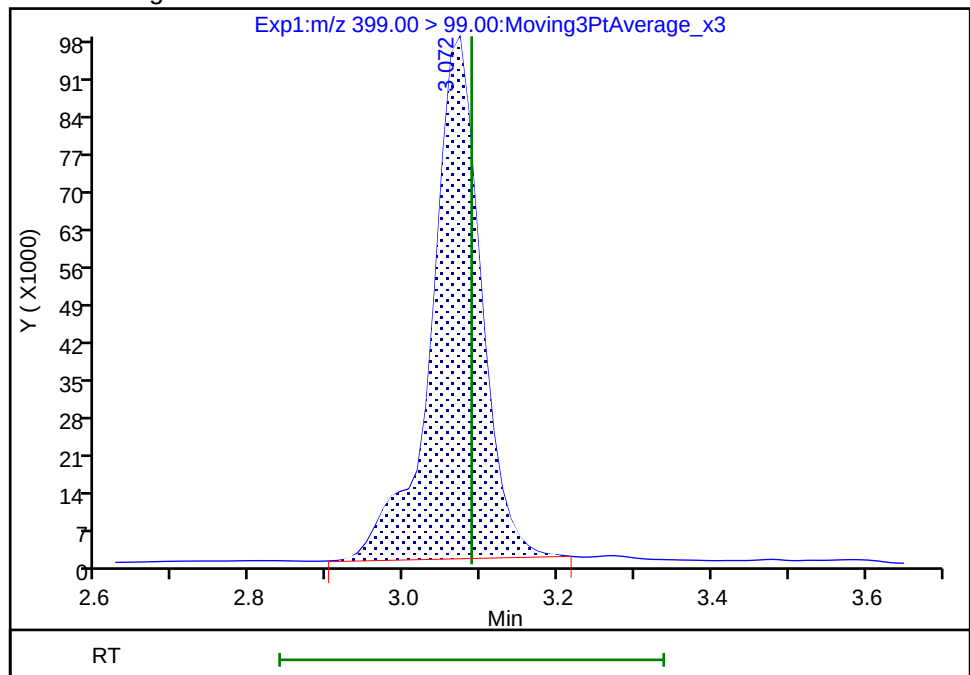
RT: 3.07
Area: 450450
Amount: 0.891483
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 436836
Amount: 0.891483
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

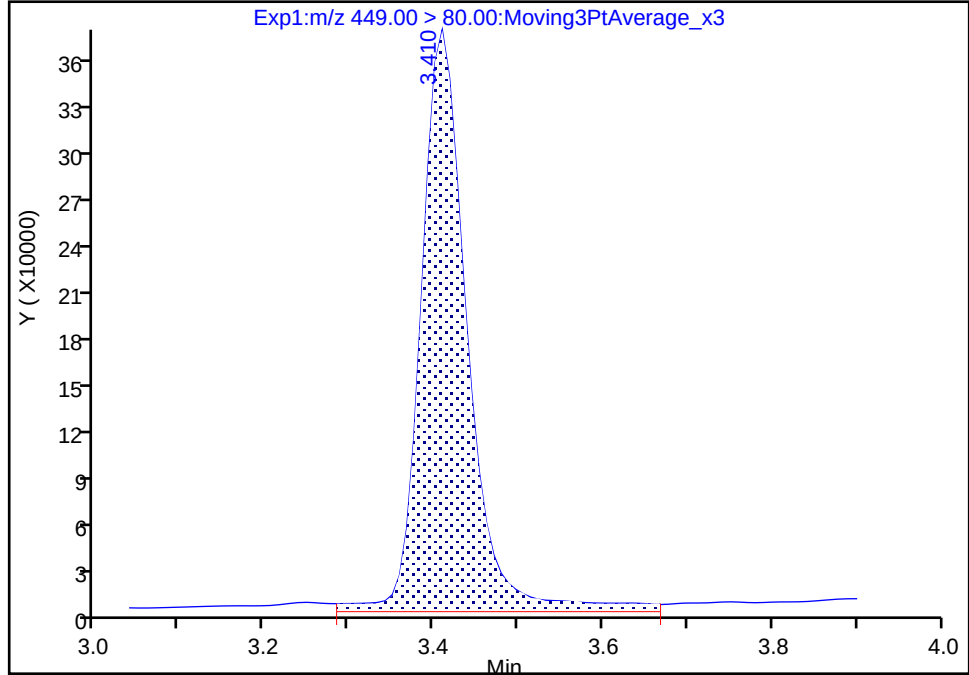
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

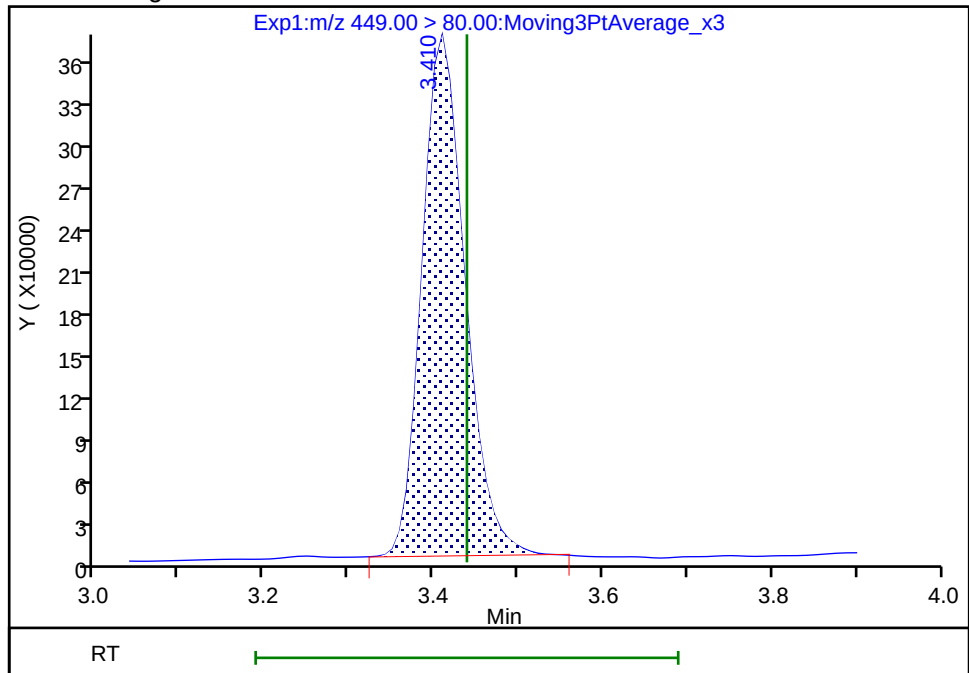
RT: 3.41
Area: 1431559
Amount: 0.974838
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 1288554
Amount: 0.952827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

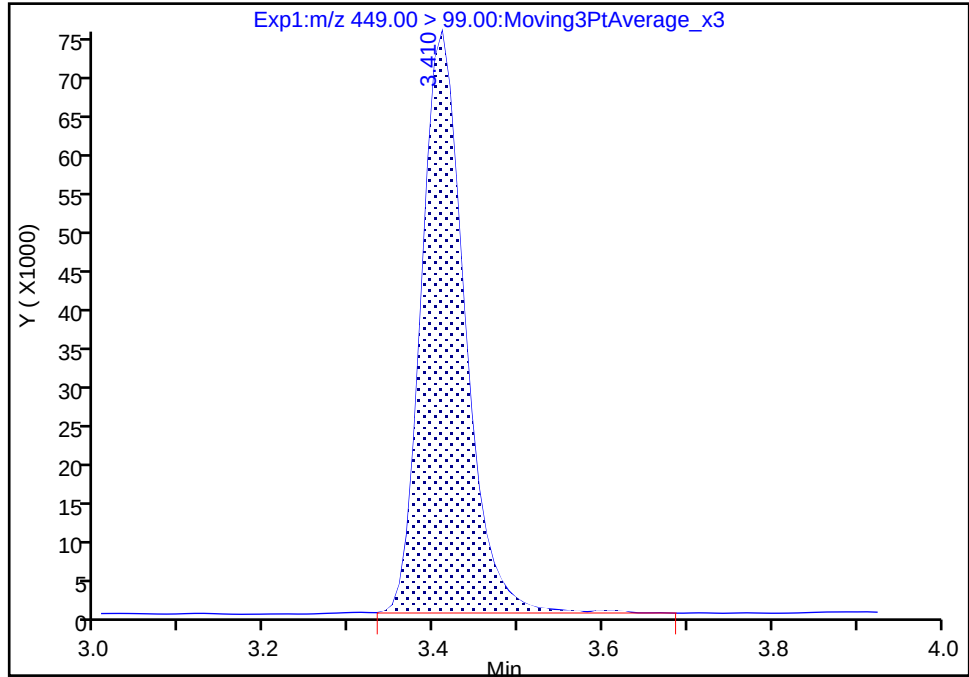
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

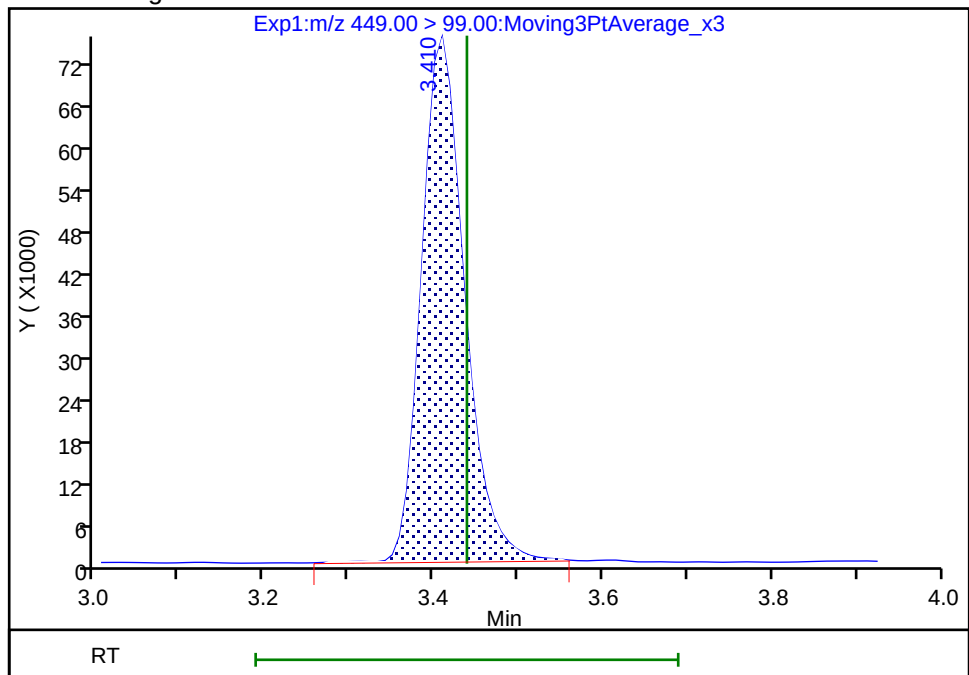
RT: 3.41
Area: 271056
Amount: 0.974838
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 266789
Amount: 0.952827
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1083 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

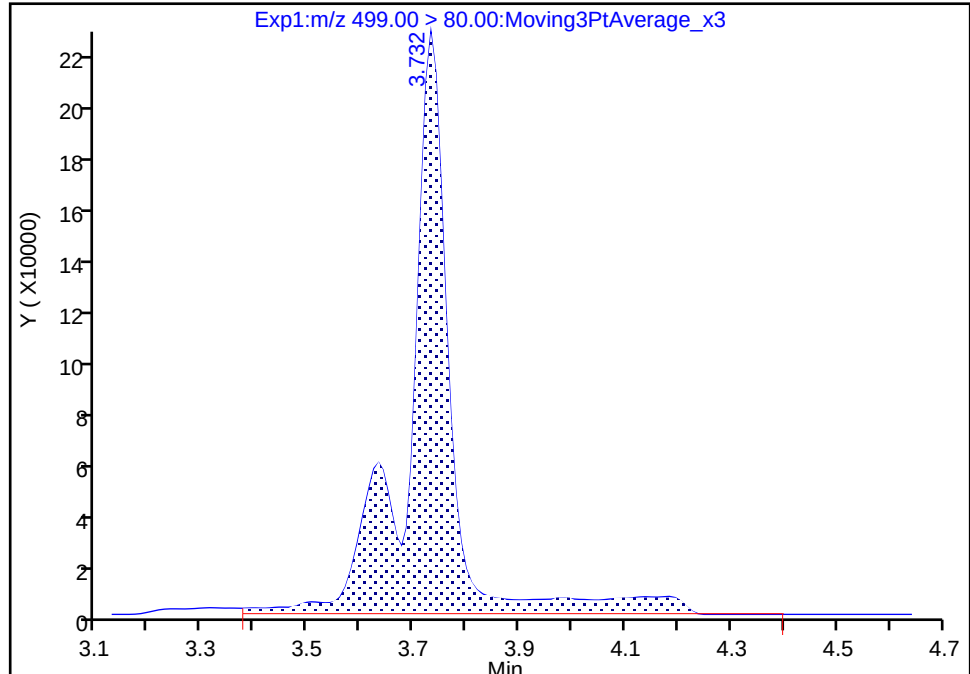
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

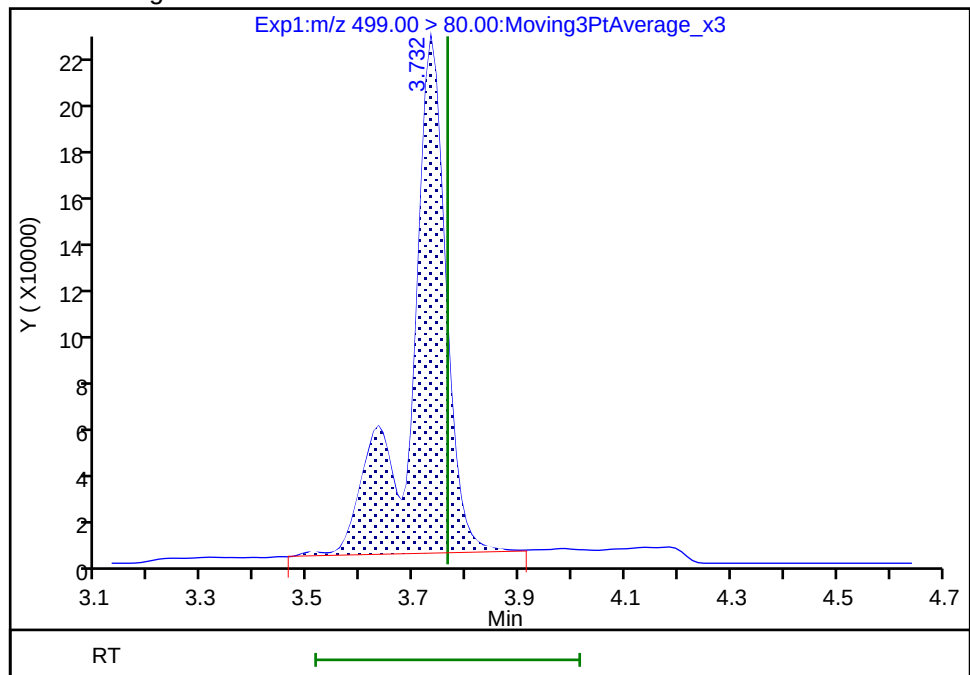
RT: 3.73
Area: 1285559
Amount: 1.091765
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 1045618
Amount: 0.887994
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:32:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

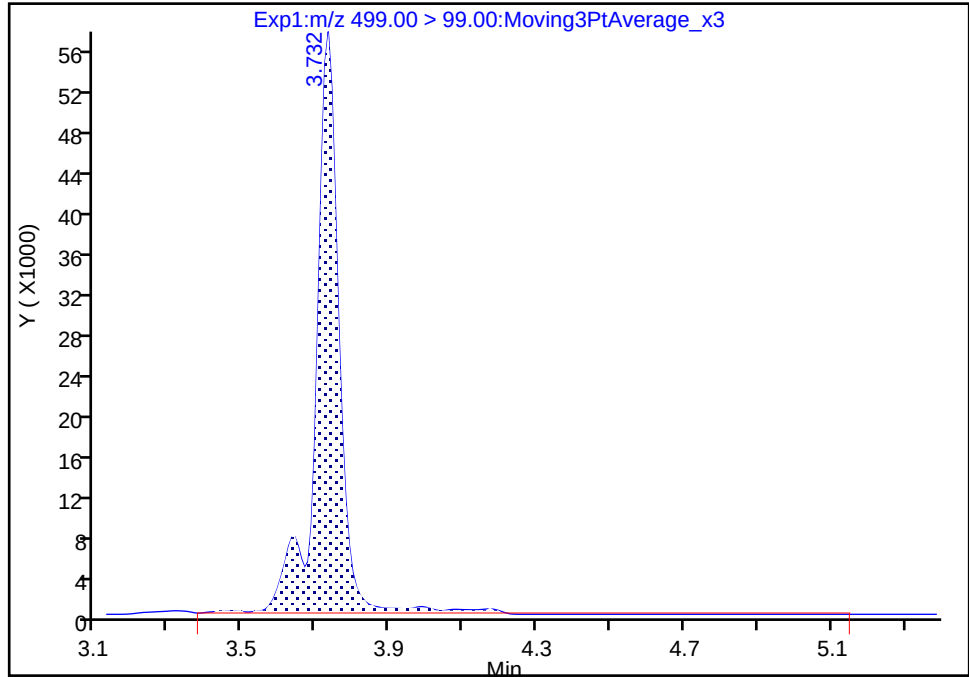
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

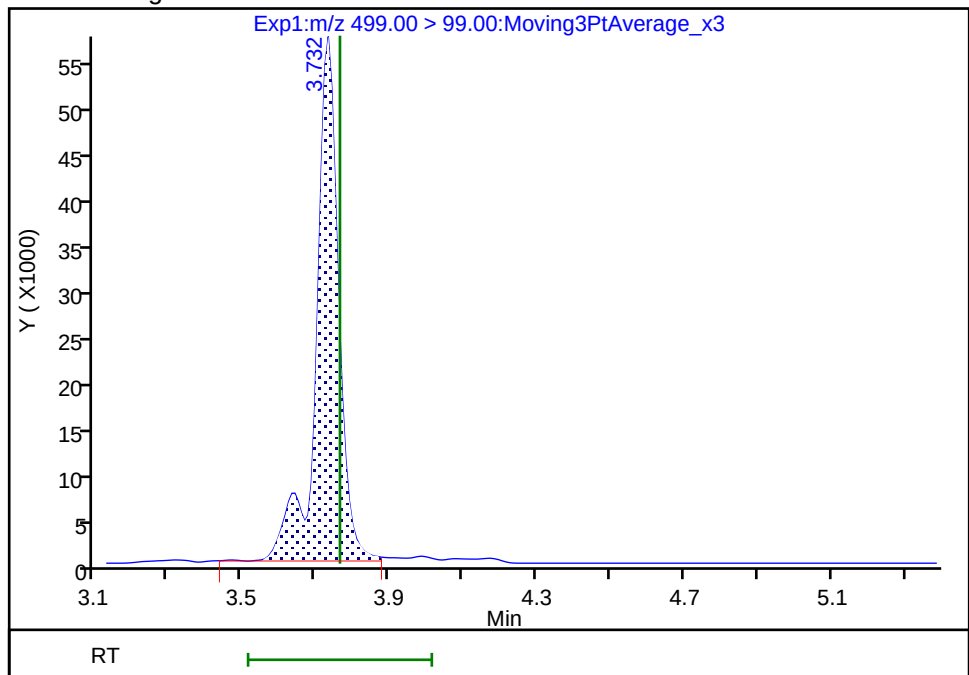
RT: 3.73
Area: 262240
Amount: 1.091765
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 245466
Amount: 0.887994
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:32:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1085 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

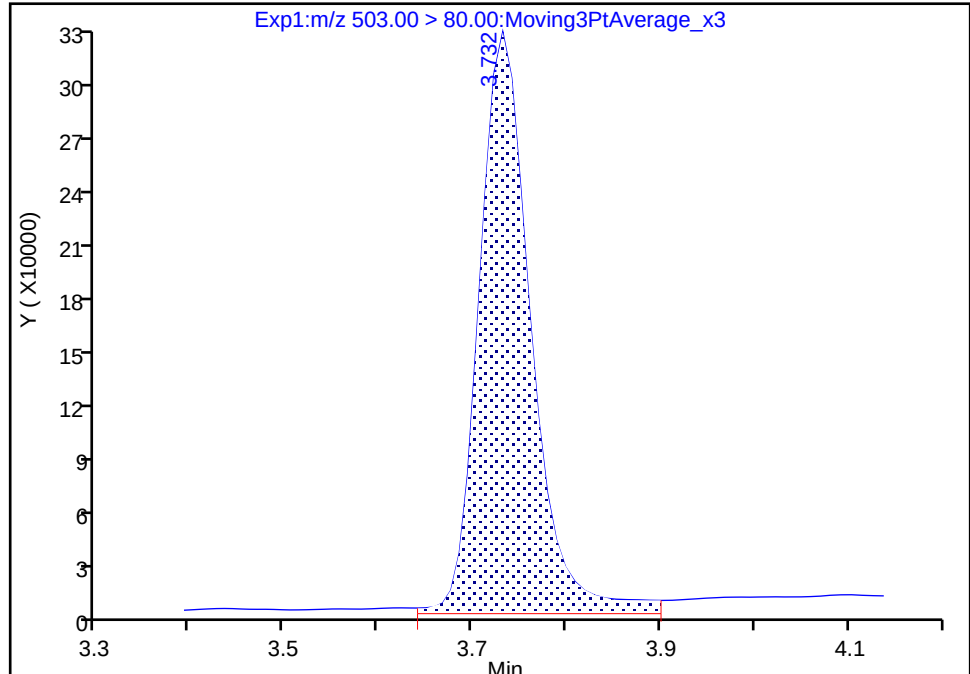
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

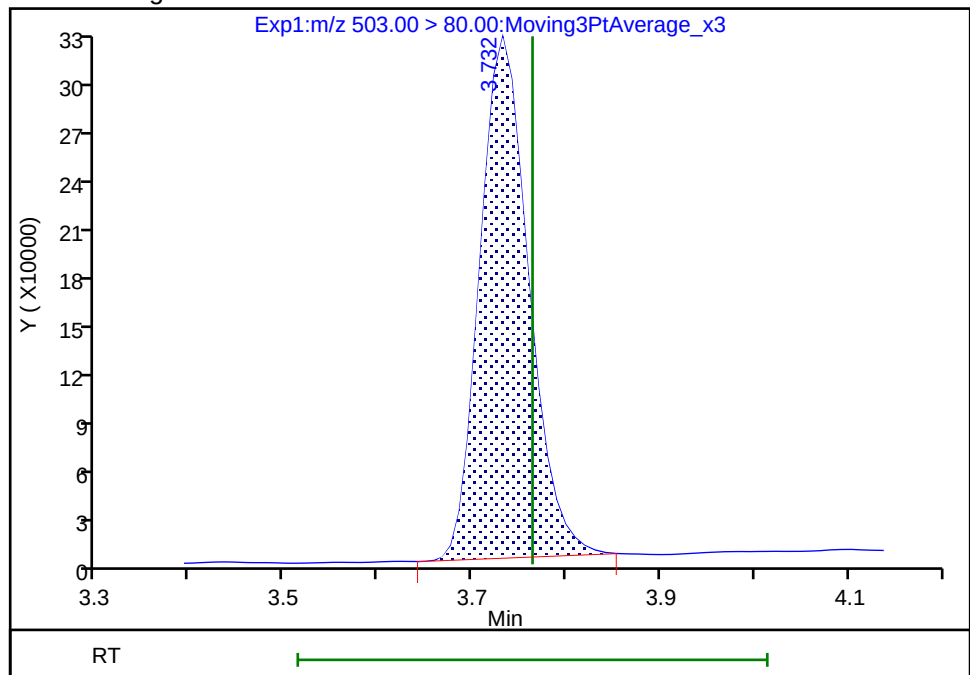
RT: 3.73
Area: 1256422
Amount: 1.099667
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 1157037
Amount: 1.012681
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:32:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

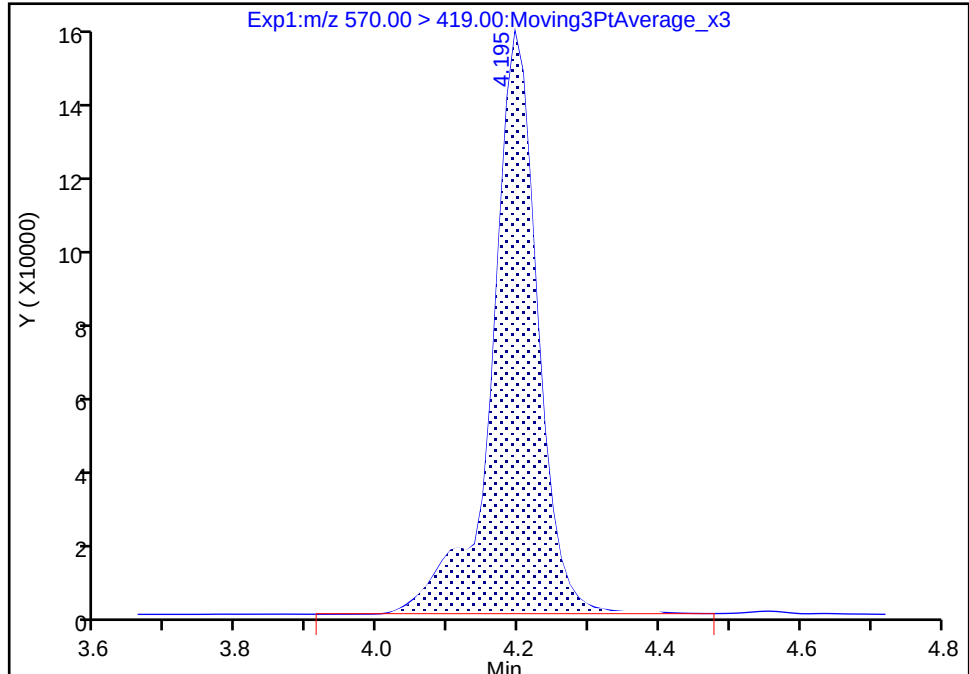
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

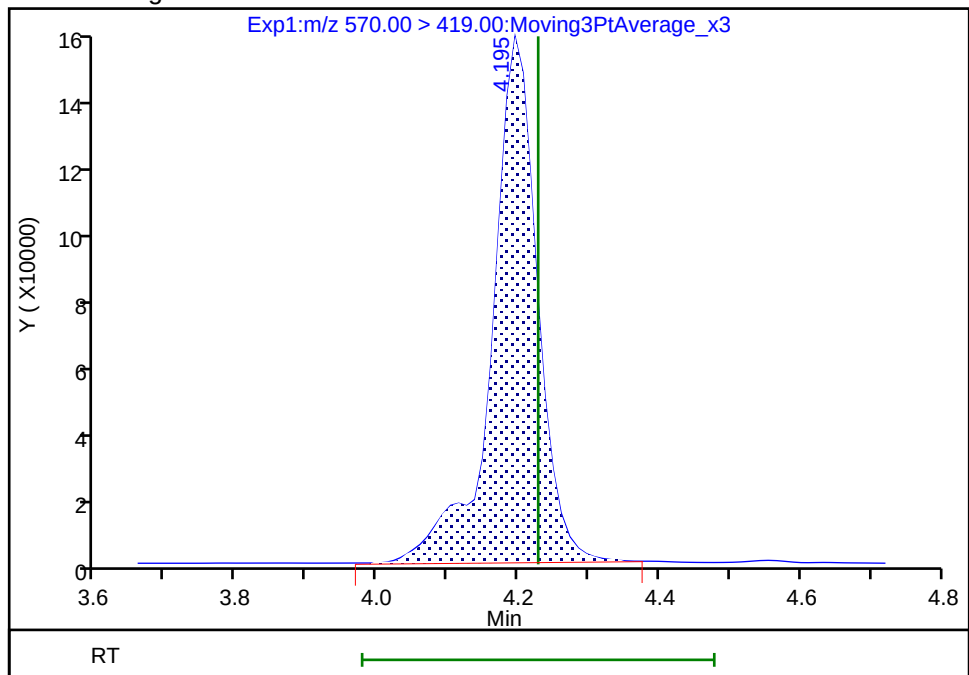
RT: 4.19
Area: 701748
Amount: 1.022815
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 691217
Amount: 1.007292
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:33:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

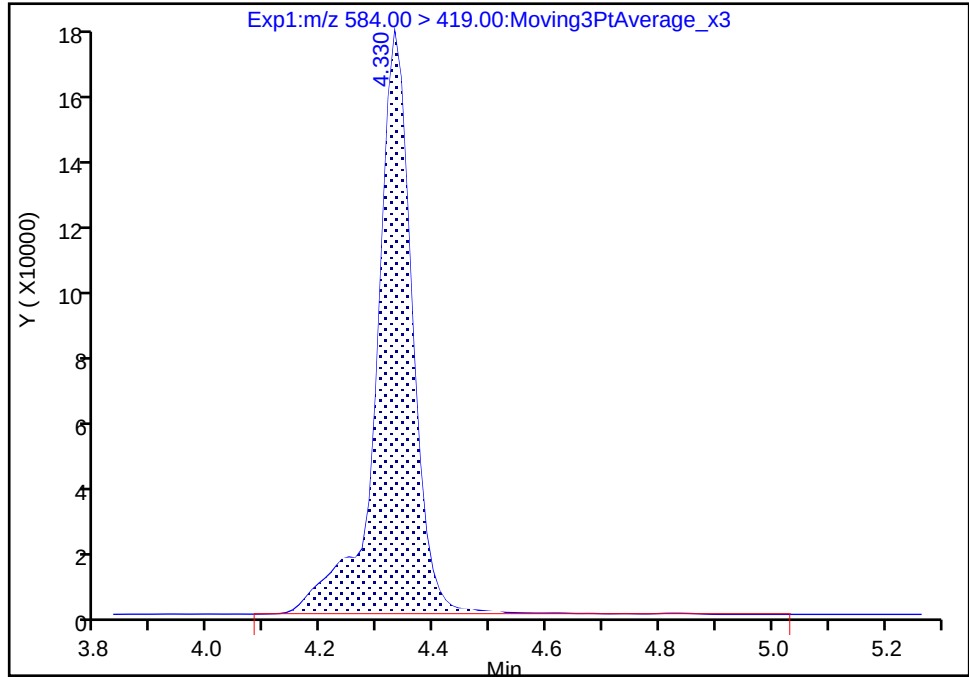
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

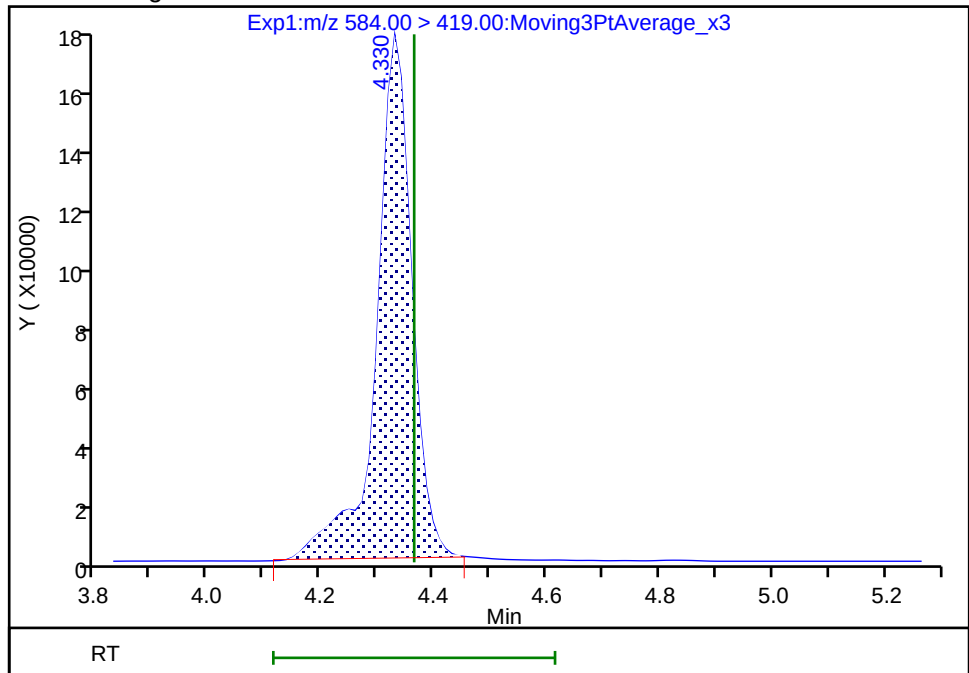
RT: 4.33
Area: 775364
Amount: 1.000088
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 746470
Amount: 0.962819
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:33:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

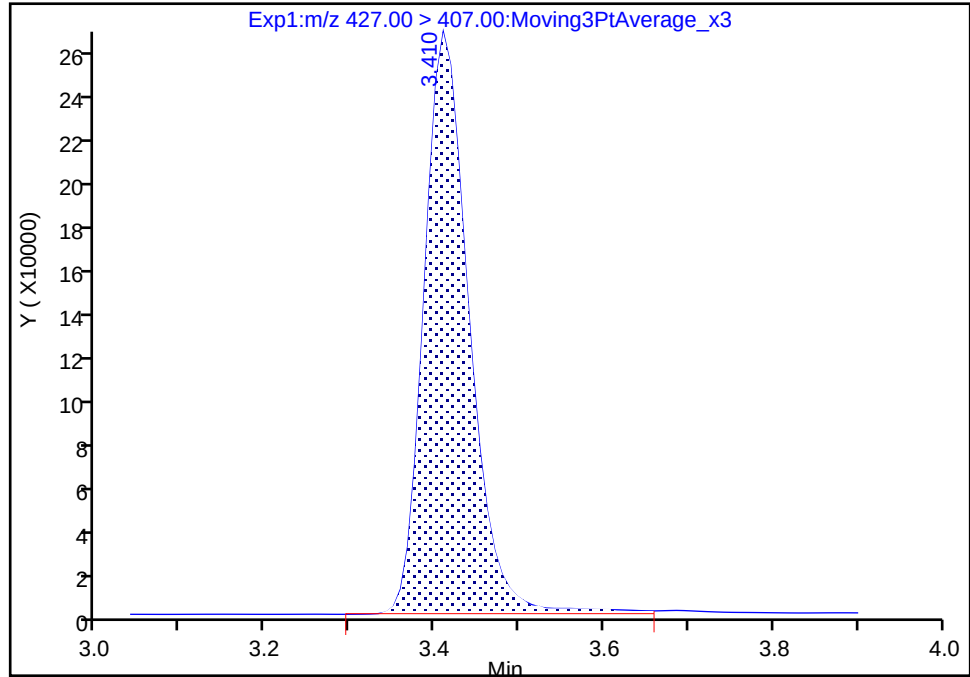
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A11.d
Injection Date: 30-Dec-2022 14:06:44 Instrument ID: LC812
Lims ID: 480-204901-A-3-B MS
Client ID: SS-12 MS
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

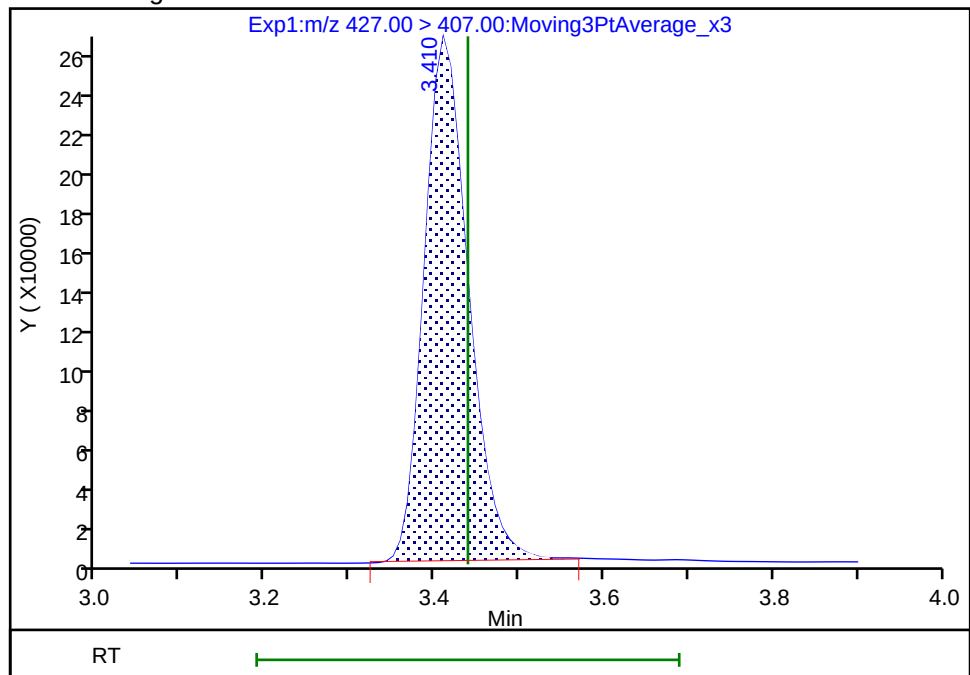
RT: 3.41
Area: 974236
Amount: 1.047157
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 948301
Amount: 1.018965
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:31:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 480-204901-A-3-C MSD

Matrix: Solid Lab File ID: PA221230A12.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05

Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 14:14

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: 9.3 % Solids: 90.7 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.069		0.55	0.36
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.111		0.22	0.061
307-24-4	Perfluorohexanoic acid (PFHxA)	2.113		0.22	0.051
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.018		0.22	0.043
335-67-1	Perfluorooctanoic acid (PFOA)	2.082		0.22	0.064
375-95-1	Perfluorononanoic acid (PFNA)	2.038		0.22	0.037
335-76-2	Perfluorodecanoic acid (PFDA)	2.005		0.22	0.031
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.984		0.22	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	2.106		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.988		0.22	0.028
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.964		0.22	0.029
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.836		0.22	0.036
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.990		0.22	0.045
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.943		0.22	0.025
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.963		0.22	0.021
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.812		0.22	0.12
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.032		0.22	0.037
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.181	J	2.21	0.12
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.104	J	2.21	0.092
27619-97-2	6:2 FTS	2.118	J	2.21	0.063
39108-34-4	8:2 FTS	2.231		2.21	0.041

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 480-204901-A-3-C MSD
 Matrix: Solid Lab File ID: PA221230A12.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 12/28/2022 09:05
 Sample wt/vol: 5.00 (g) Date Analyzed: 12/30/2022 14:14
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 9.3 % Solids: 90.7 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 187177 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	98		50-150
STL00995	13C5 PFNA	104		50-150
STL00992	13C4 PFBA	86		50-150
STL00993	13C2 PFHxA	87		50-150
STL00996	13C2 PFDA	113		50-150
STL00997	13C2 PFUnA	116		50-150
STL00994	18O2 PFHxS	86		50-150
STL00998	13C2 PFDoA	99		50-150
STL00991	13C4 PFOS	88		50-150
STL01056	13C8 FOSA	73		50-150
STL01893	13C5 PFPeA	87		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	146		50-150
STL02117	d5-NEtFOSAA	168	*	50-150
STL02279	M2-6:2 FTS	150		50-150
STL02337	13C3 PFBS	84		50-150
STL02280	M2-8:2 FTS	259	*	50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
 Lims ID: 480-204901-A-3-C MSD
 Client ID: SS-12 MSD
 Sample Type: MSD
 Inject. Date: 30-Dec-2022 14:14:53 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-204901-A-3-C MSD
 Misc. Info.: 200-0053865-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 03-Jan-2023 11:50:37 Calib Date: 18-Nov-2022 15:10:45
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20221118-53396.b\PA221118ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1607

First Level Reviewer: Z1IP

Date: 03-Jan-2023 09:37:37

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	2.093	2.076	0.017	0.613	3020343	1.08		86.4	10419	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.076	0.017	1.000	2337501	0.9381		93.8	120	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.387	-0.001	0.699	2315206	1.09		86.9	1745	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.387	-0.001	1.000	1932783	0.9575		95.8	18.1	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.400	0.0	0.703	2248369	0.9712		83.5	113392	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	1842784	0.8328	Target=2.09	94.2	122	
298.90 > 99.00	2.400	2.400	0.0	1.000	875565		2.10(1.04-3.13)		100	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.676	2.689	-0.013	1.000	671545	0.8686		93.0	1268	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.676	2.689	-0.013	0.784	292993	1.43		123	63.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.795	2425862	1.09		86.9	3475	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	2026353	0.9583	Target=14.25	95.8	33.5	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	144650		14.01(7.12-21.37)		59.3	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.713	2.737	-0.024	0.885	1717697	0.8902	Target=3.04	94.9	104	M
349.00 > 99.00	2.713	2.737	-0.024	0.885	581851		2.95(1.52-4.56)		292	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.822	2.835	-0.013	1.000	352636	0.9228		92.3	2133	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.822	2.835	-0.013	0.827	452370	1.15		91.8	2042	
D 11 18O2 PFHxS										
403.00 > 84.00	3.065	3.088	-0.023	0.898	1708594	1.01		85.7	3086	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.065	3.088	-0.023	1.000	1471900	0.9026	Target=3.66	99.2	79.8	M
399.00 > 99.00	3.065	3.088	-0.023	1.000	411817		3.57(1.83-5.49)		152	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.065	3.099	-0.034	0.898	2615441	1.14		91.1	3234	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.065	3.099	-0.034	1.000	2084505	0.9150	Target=3.97	91.5	35.6	M
363.00 > 169.00	3.065	3.099	-0.034	1.000	528933		3.94(1.98-5.95)		448	M
77 DONA										
377.00 > 251.00	3.110	3.132	-0.022	0.835	5045759	0.9109	Target=3.16	96.7	1170	
377.00 > 85.00	3.110	3.132	-0.022	0.835	1612604		3.13(1.58-4.73)		723	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.404	3.439	-0.035	0.997	504913	1.79		150	60.3	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.404	3.439	-0.035	1.000	873382	0.9605		101	381	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.404	3.439	-0.035	0.914	1237839	0.8811	Target=5.14	92.5	72.7	M
449.00 > 99.00	3.404	3.439	-0.035	0.914	251522		4.92(2.57-7.72)		184	
D 14 13C4 PFOA										
417.00 > 372.00	3.412	3.448	-0.036	1.000	3175815	1.23		98.4	2492	
* 62 13C2 PFOA										
415.00 > 370.00	3.412	3.448	-0.036		3117956	1.25			2347	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.412	3.448	-0.036	1.000	2563859	0.9440	Target=2.79	94.4	49.1	M
413.00 > 169.00	3.412	3.448	-0.036	1.000	911667		2.81(1.40-4.19)		1016	
D 18 13C4 PFOS										
503.00 > 80.00	3.725	3.764	-0.039	1.092	1202017	1.05		87.9	60.3	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.725	3.764	-0.039	1.000	1005001	0.8216	Target=5.11	88.5	50.6	M
499.00 > 99.00	3.725	3.764	-0.039	1.000	228342		4.40(2.55-7.66)		153	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.744	3.783	-0.039	1.000	2497801	0.9240	Target=8.55	92.4	83.7	
463.00 > 169.00	3.744	3.783	-0.039	1.000	303628		8.23(4.28-12.83)		719	
D 19 13C5 PFNA										
468.00 > 423.00	3.744	3.783	-0.039	1.097	3257303	1.30		104	3562	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.880	3.928	-0.048	1.041	2539266	0.9044		97.0	2228	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.014	4.050	-0.036	1.077	801085	0.8676	Target=2.53	90.4	53.4	M
549.00 > 99.00	4.014	4.050	-0.036	1.077	340056		2.36(1.27-3.80)		321	
D 23 13C2 PFDA										
515.00 > 470.00	4.041	4.081	-0.040	1.184	3614651	1.41		113	3797	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.041	4.081	-0.040	1.000	2850864	0.9091	Target=10.26	90.9	138	
513.00 > 169.00	4.041	4.081	-0.040	1.000	290404		9.82(5.13-15.38)		332	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.041	4.093	-0.052	1.184	1071656	3.10		259	73.7	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.041	4.093	-0.052	1.000	1464353	1.01		106	14697	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.104	4.150	-0.046	1.000	1482061	0.9214		92.1	1532	
D 21 13C8 FOSA										
506.00 > 78.00	4.104	4.150	-0.046	1.203	1924504	0.9182		73.5	2751	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.184	4.228	-0.044	1.226	947438	1.82		146	636	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.184	4.228	-0.044	1.000	652399	0.9890		98.9	729	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.273	4.331	-0.058	1.147	649001	0.8902	Target=2.51	92.3	56.0	
599.00 > 99.00	4.273	4.331	-0.058	1.147	243151		2.67(1.25-3.76)		372	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.353	-0.045	1.262	3386477	1.45		116	3693	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.308	4.353	-0.045	1.000	2456961	0.8999	Target=9.88	90.0	184	
563.00 > 169.00	4.308	4.353	-0.045	1.000	253529		9.69(4.94-14.82)		417	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.319	4.365	-0.046	1.000	737327	0.9543		95.4	786	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.365	-0.046	1.266	1078804	2.10		168	1014	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.410	4.454	-0.044	1.184	3613862	0.8350		88.6	3129	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.543	4.591	-0.048	1.000	2387508	0.9550	Target=7.77	95.5	256	
613.00 > 169.00	4.543	4.591	-0.048	1.000	310245		7.70(3.89-11.66)		945	
D 36 13C2 PFDaA										
615.00 > 570.00	4.543	4.591	-0.048	1.331	2949493	1.24		98.9	2689	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.555	4.612	-0.057	1.127	934755	1.07		112	2916	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.721	4.776	-0.055	1.267	206212	0.6685	Target=0.50	69.1	44.9	M
699.00 > 99.00	4.721	4.776	-0.055	1.267	387255		0.53(0.25-0.76)		810	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.758	4.804	-0.046	1.047	2155832	0.9017	Target=5.21	90.2	222	M
663.00 > 169.00	4.758	4.804	-0.046	1.047	384407		5.61(2.60-7.81)		923	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.952	5.012	-0.060	1.000	199488	0.8905	Target=0.89	89.0	622	
713.00 > 219.00	4.942	5.012	-0.070	0.998	216705		0.92(0.44-1.33)		742	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.952	5.012	-0.060	1.451	2045467	0.99		79.3	3040	

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	5.311	5.367	-0.056	1.002	1045269	0.9514	Target=5.65	95.1	227	
813.00 > 169.00	5.300	5.367	-0.067	1.000	167784		6.23(2.82-8.47)		609	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.300	5.367	-0.067	1.553	1467215	0.5753		46.0	2734	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.640	5.722	-0.082	1.064	744444	0.7701	Target=6.24	77.0	276	M
913.00 > 169.00	5.640	5.722	-0.082	1.064	111775		6.66(3.12-9.36)		311	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d

Injection Date: 30-Dec-2022 14:14:53

Instrument ID: LC812

Lims ID: 480-204901-A-3-C MSD

Client ID: SS-12 MSD

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

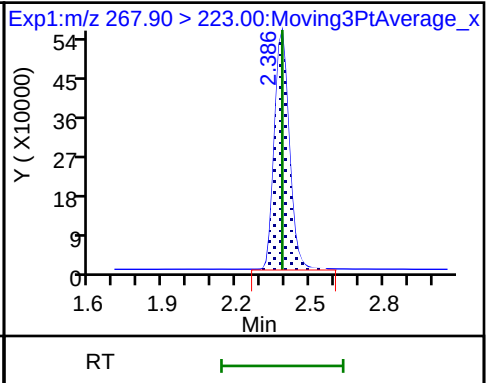
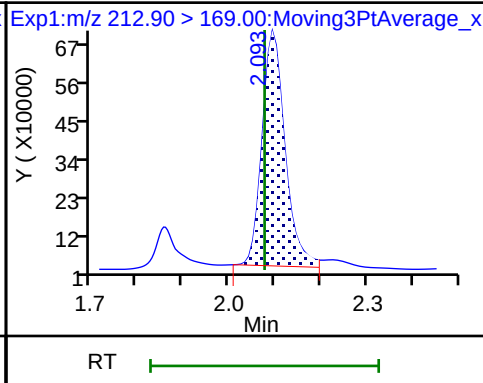
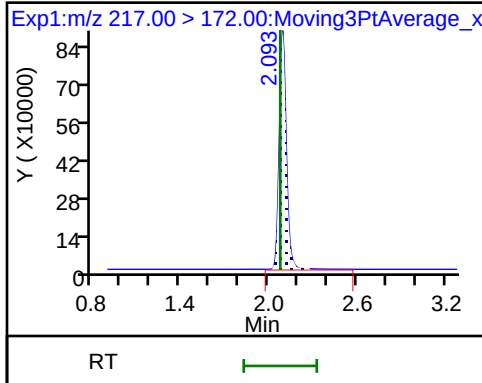
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

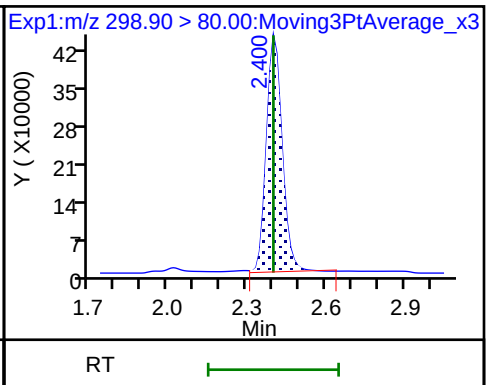
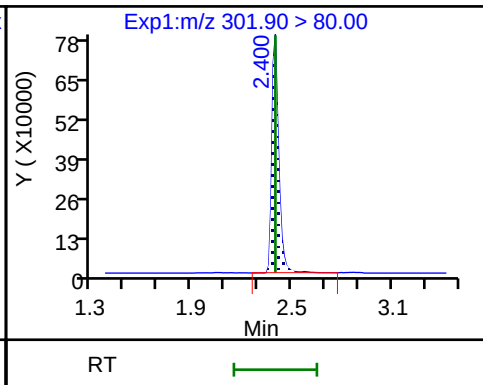
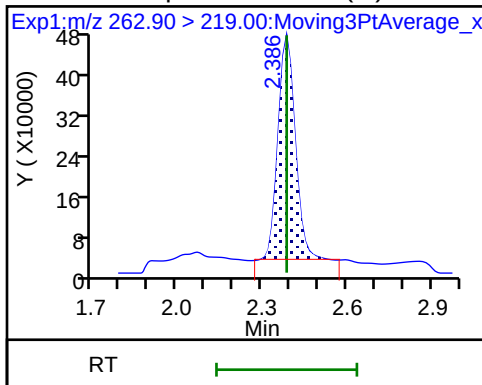
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

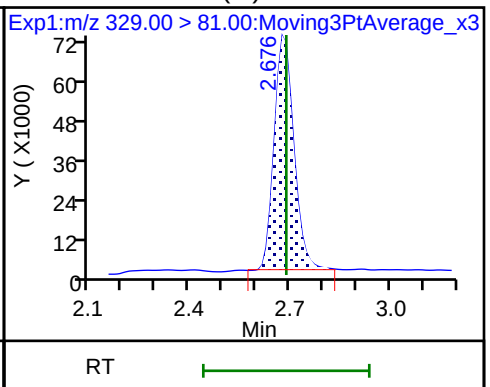
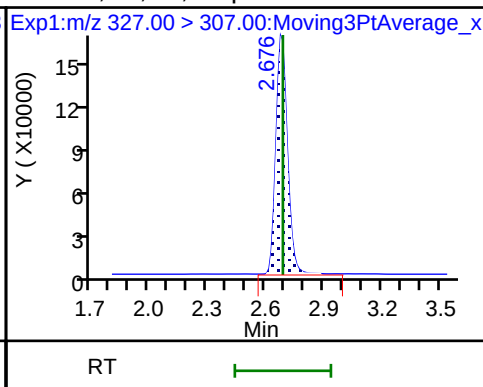
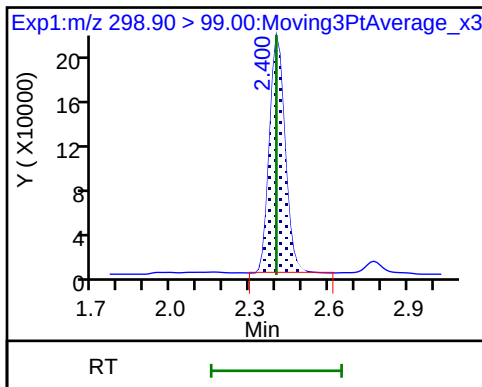
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

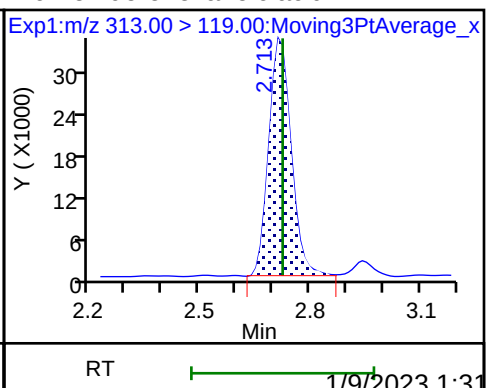
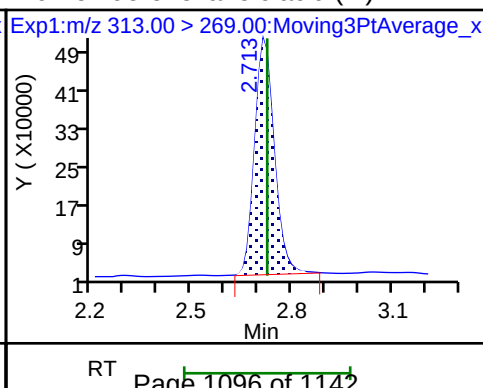
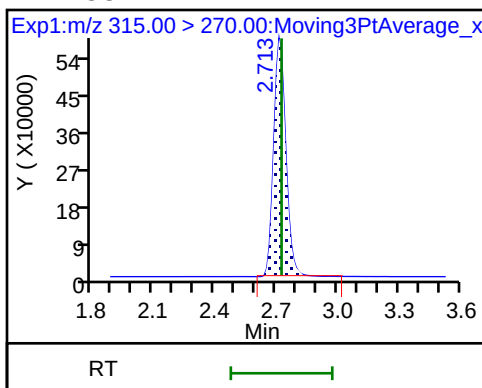
D 60 M2-4:2 FTS (M)

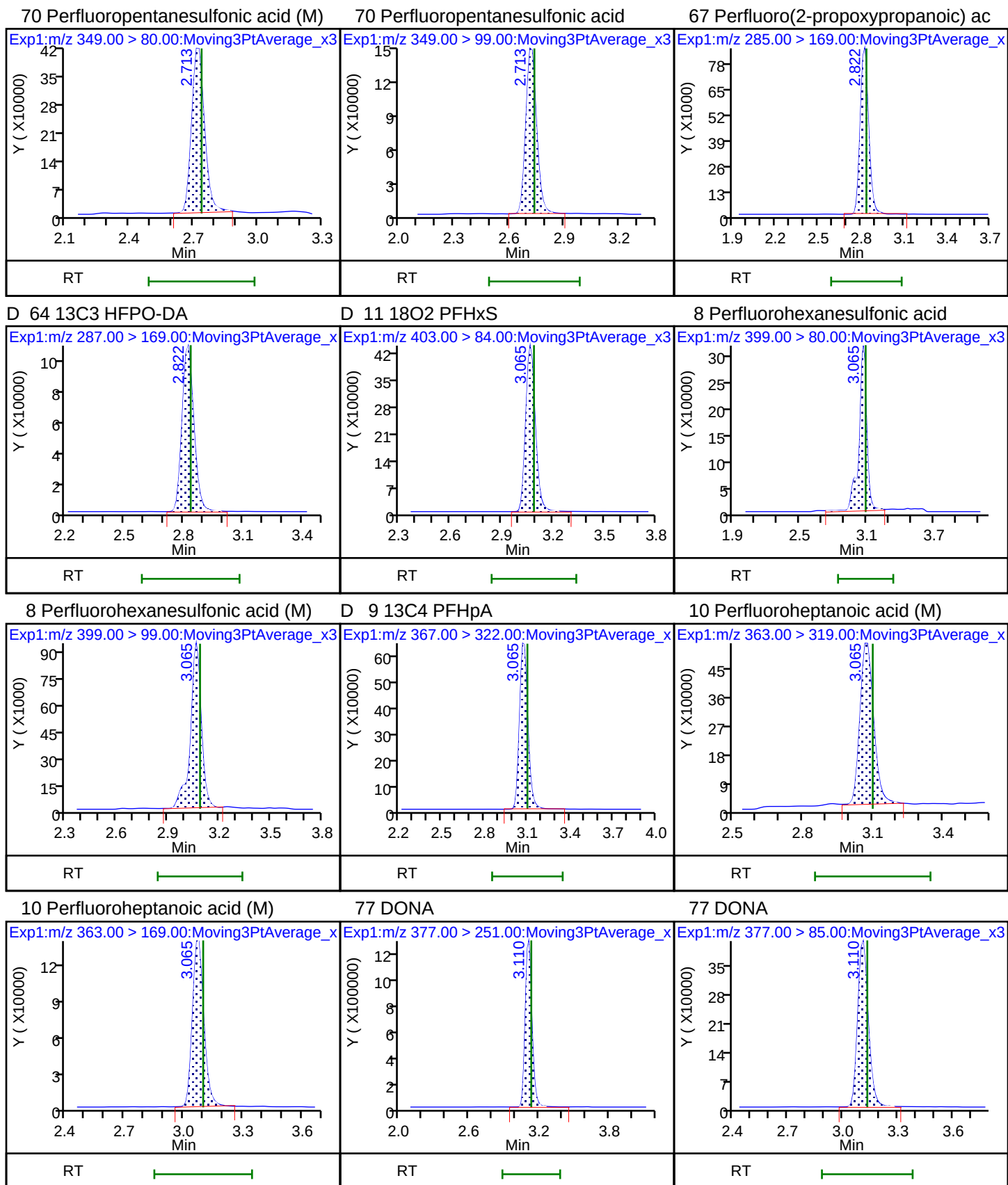


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

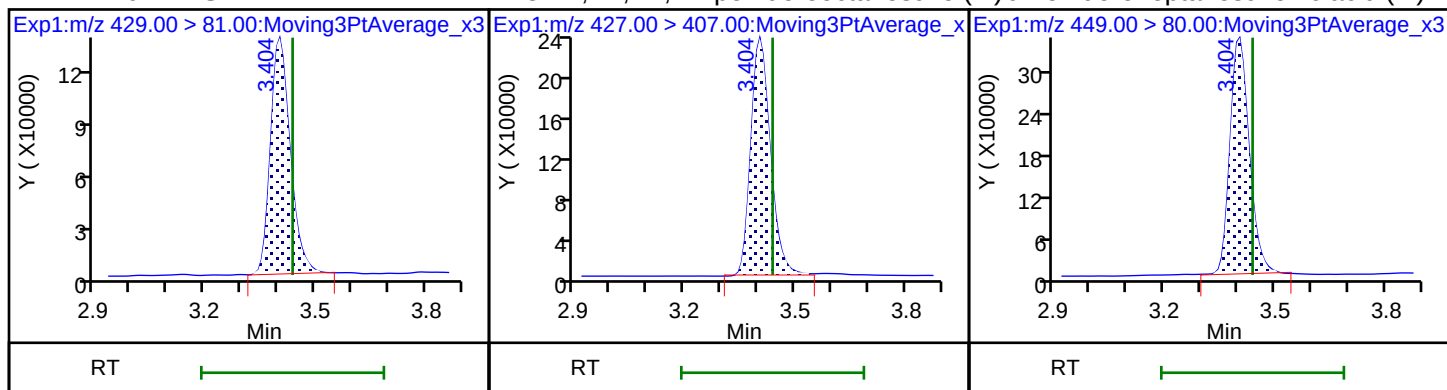
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

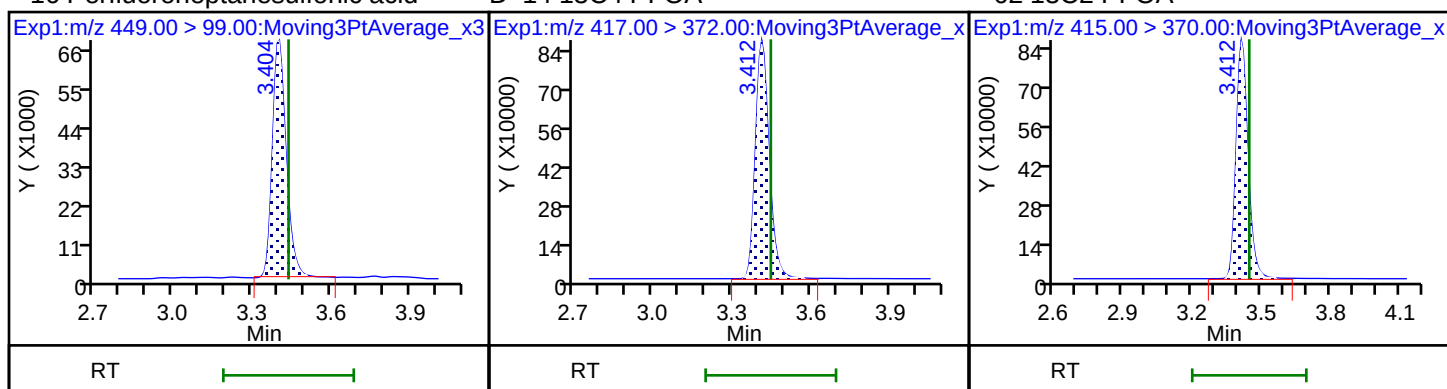
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 16 Perfluoroheptanesulfonic acid (M)



16 Perfluoroheptanesulfonic acid

D 14 13C4 PFOA

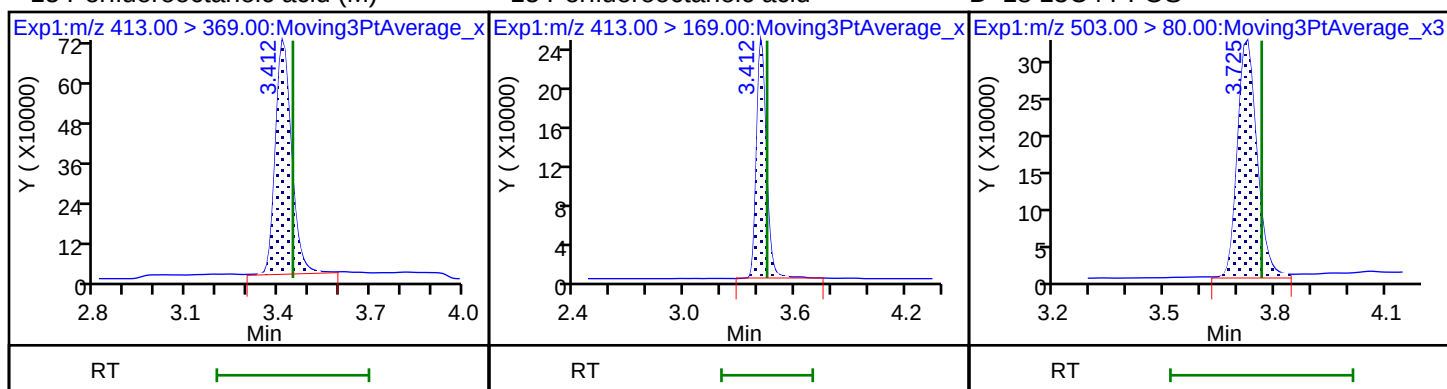
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

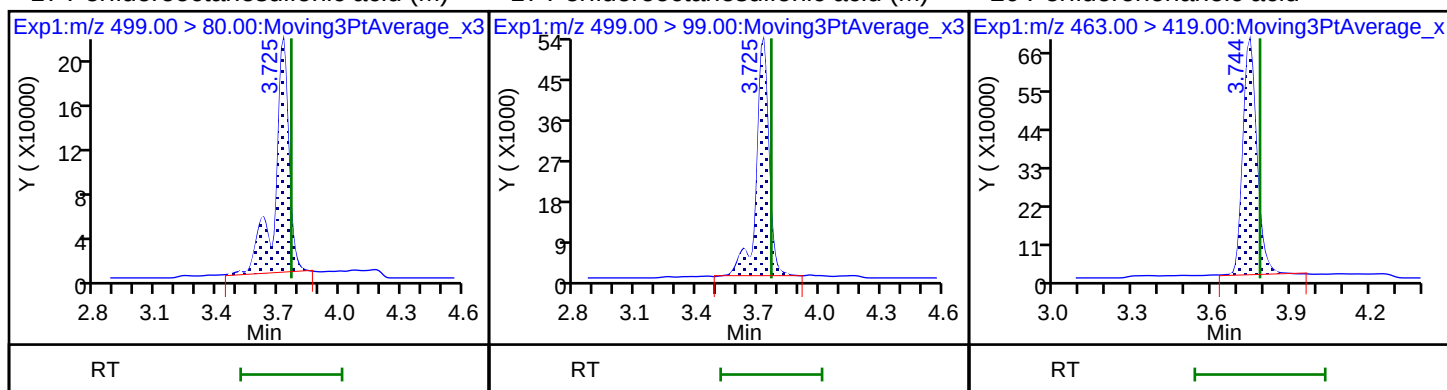
D 18 13C4 PFOS

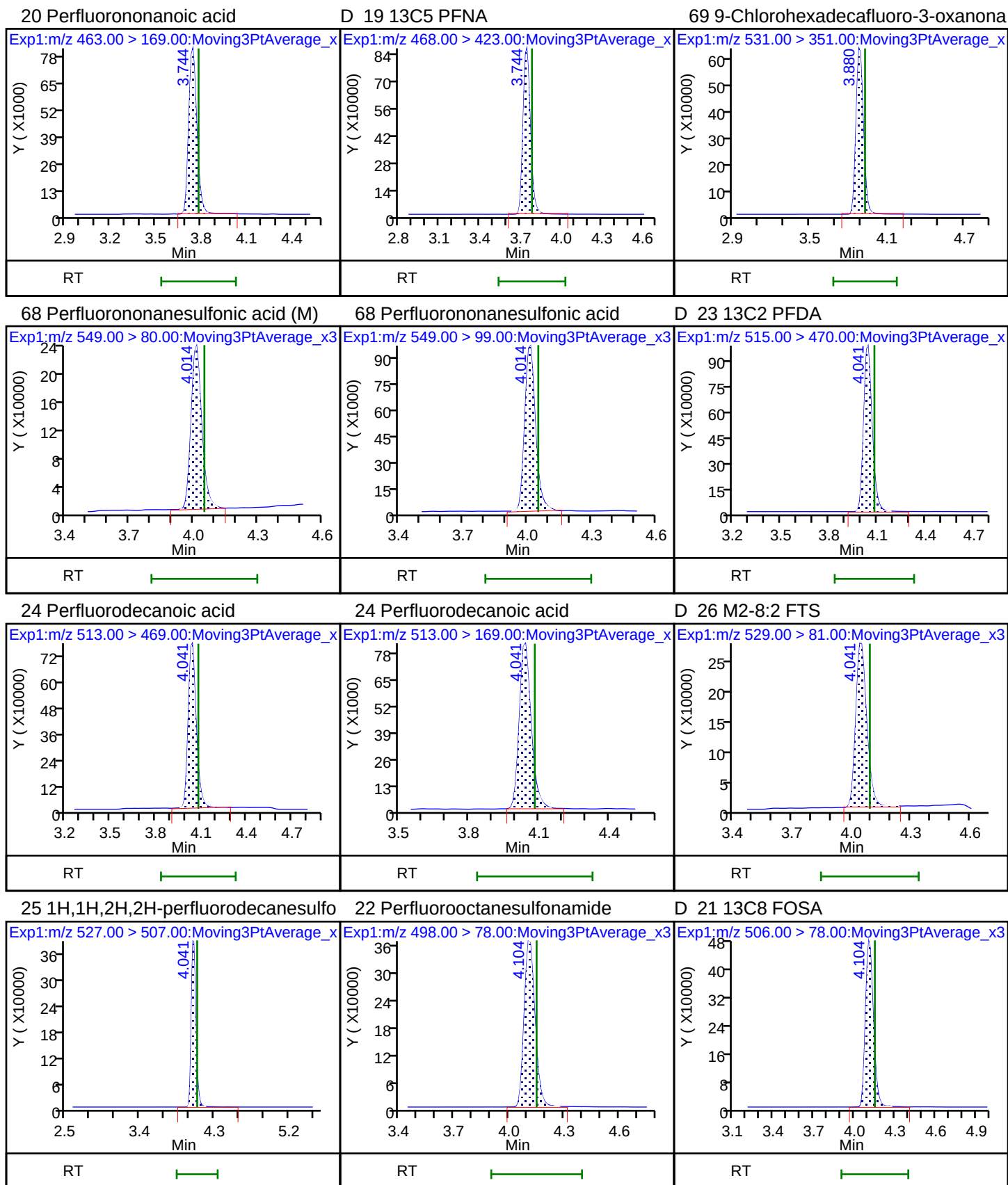


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

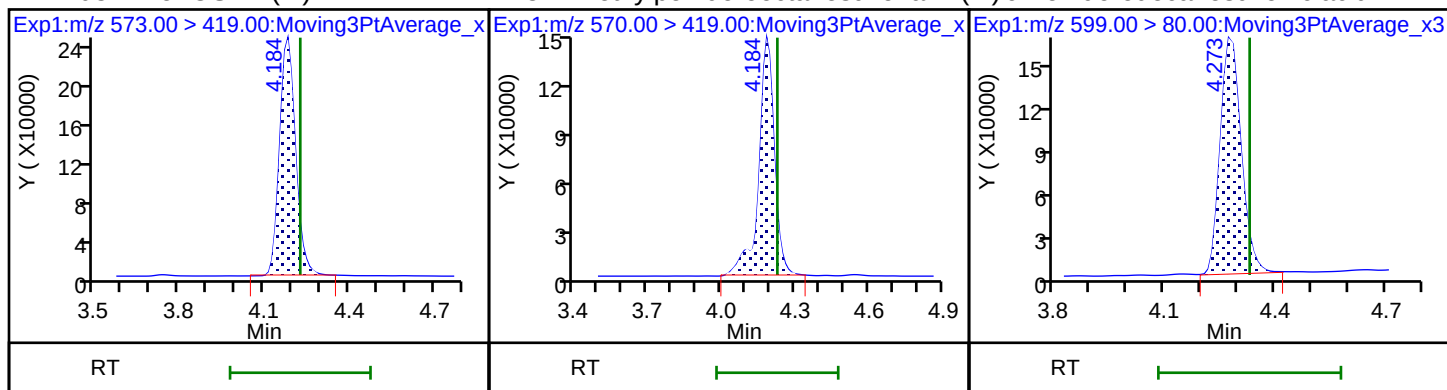




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

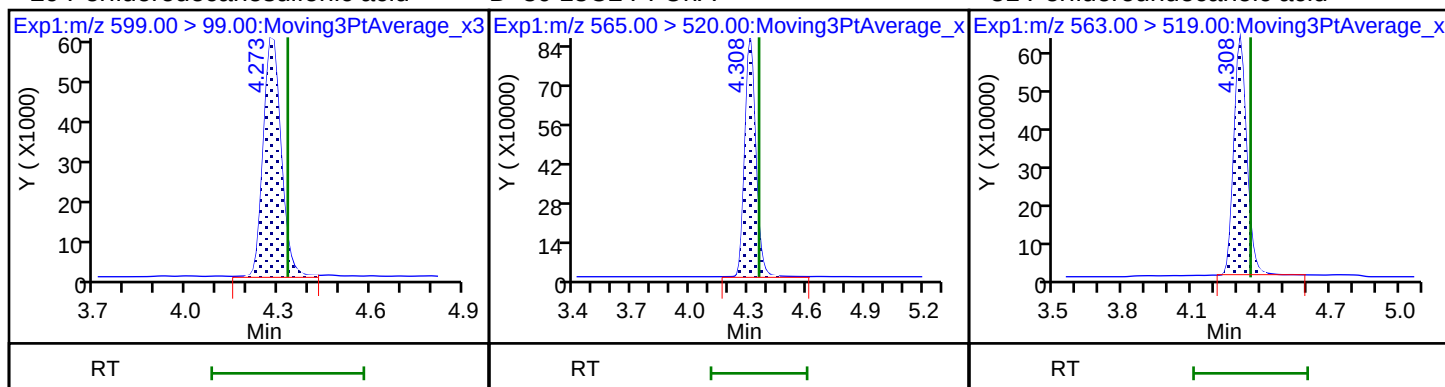
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUa

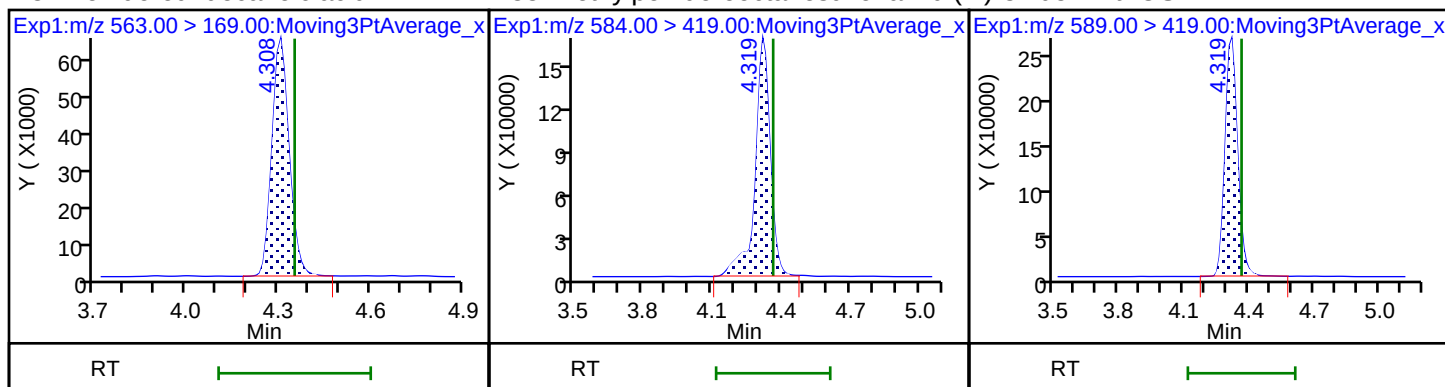
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

33 N-ethylperfluorooctanesulfonamid (M)

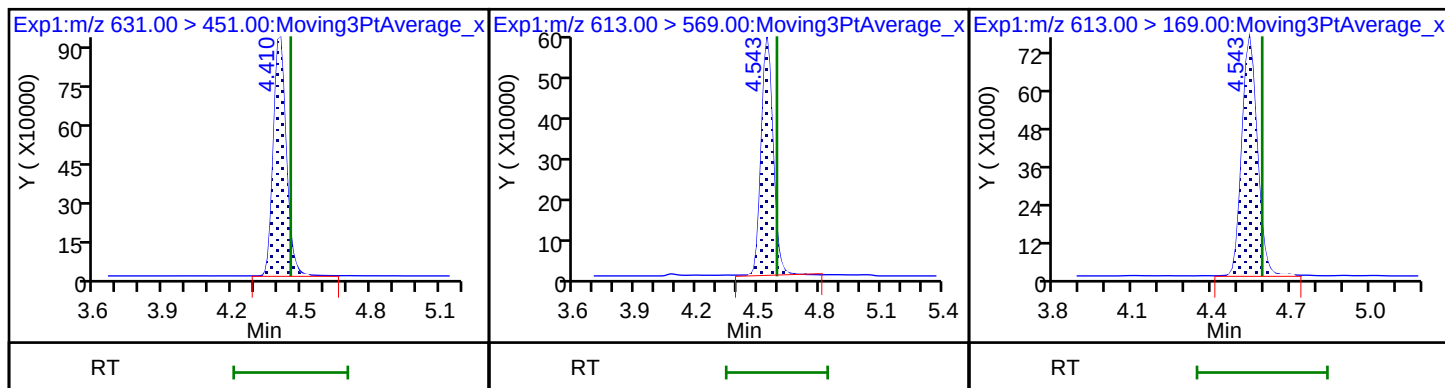
32 d5-NEtFOSAA



66 11-Chloroeicosafluoro-3-oxaundec

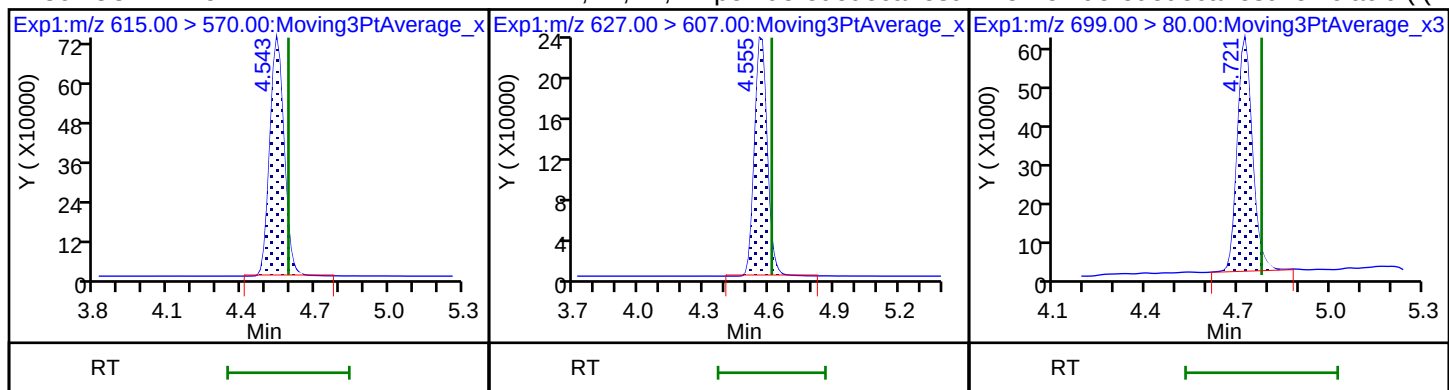
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

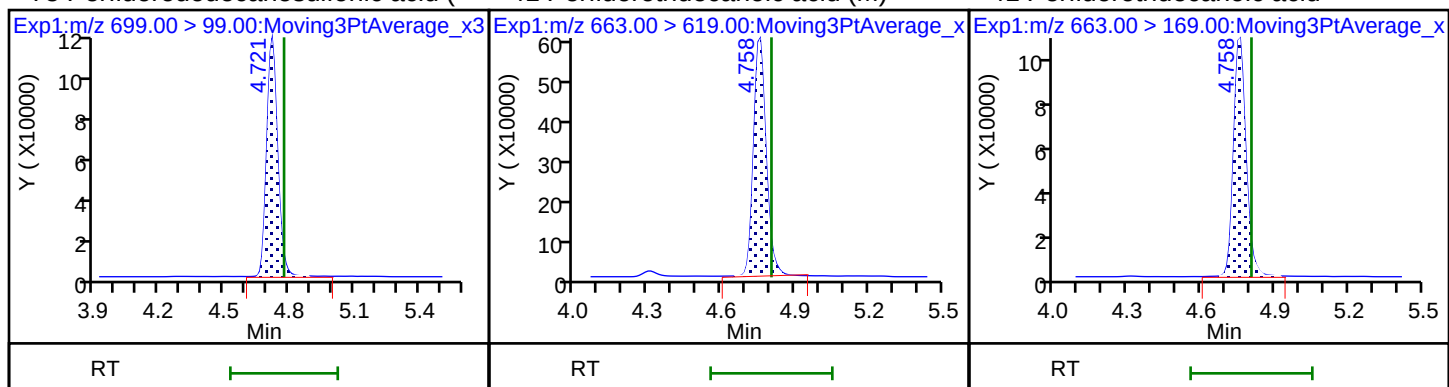
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

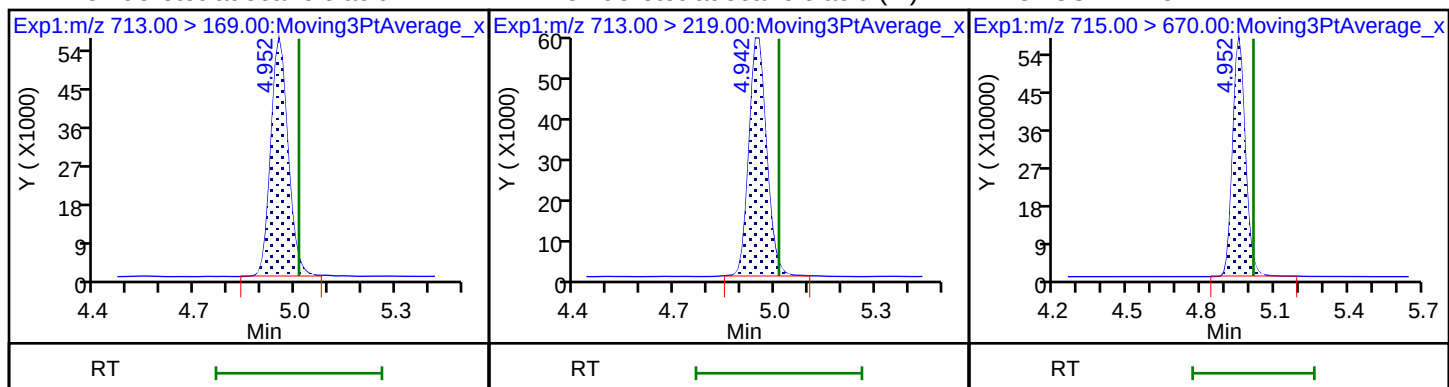
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

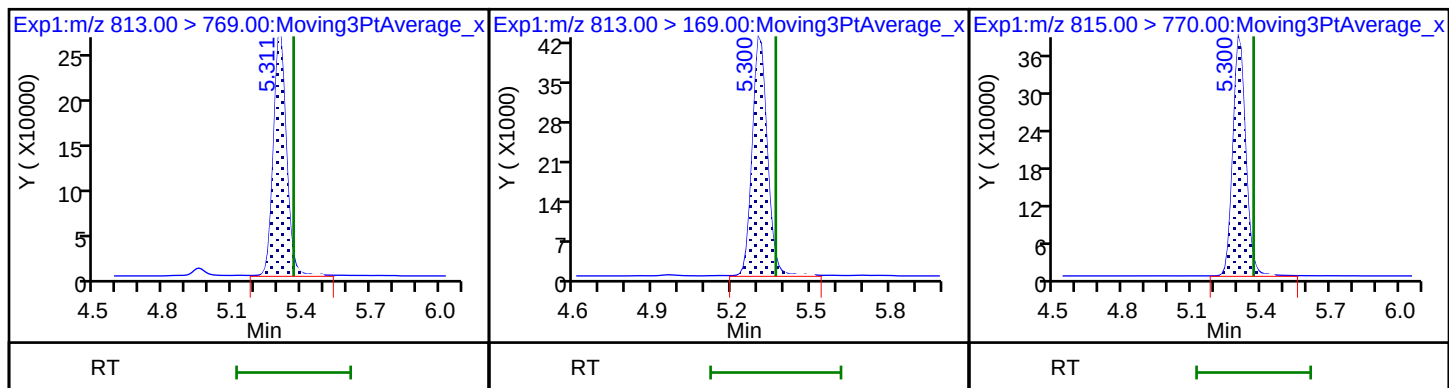
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

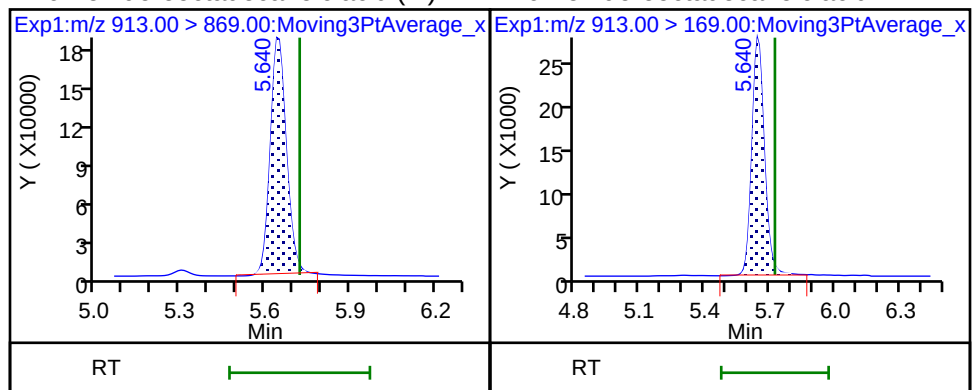
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

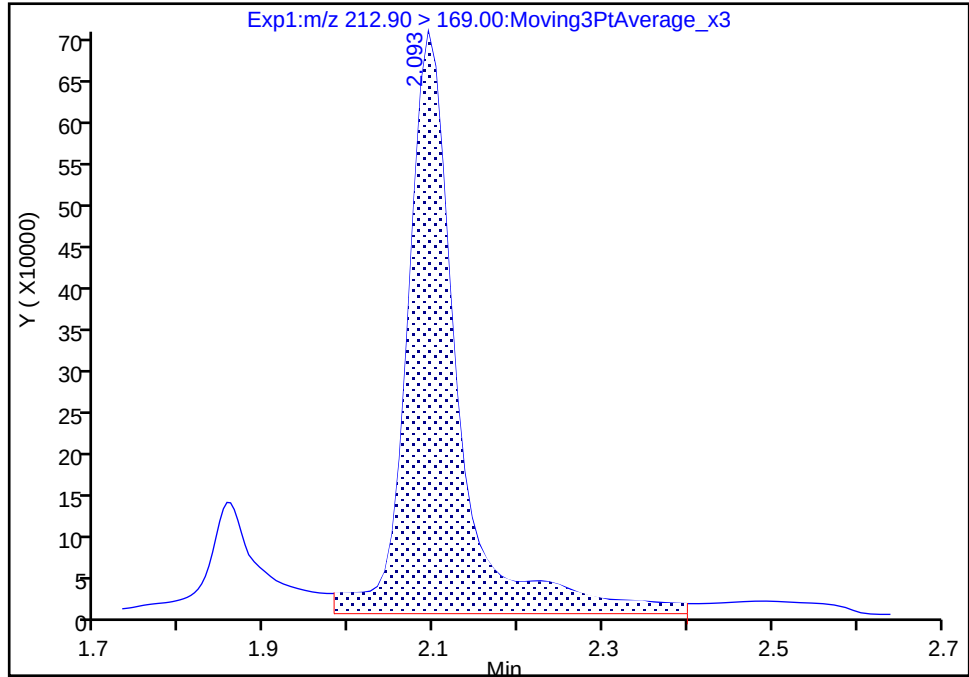
Data File:	\\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d		
Injection Date:	30-Dec-2022 14:14:53	Instrument ID:	LC812
Lims ID:	480-204901-A-3-C MSD		
Client ID:	SS-12 MSD		
Operator ID:	lc812tech	ALS Bottle#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	12

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

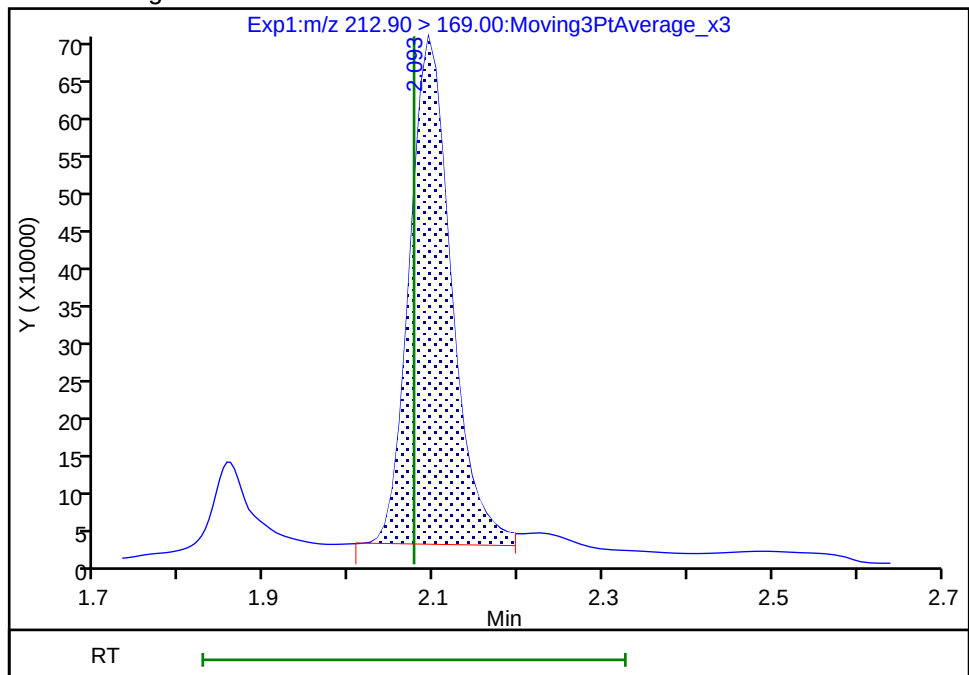
RT: 2.09
Area: 2919892
Amount: 1.171870
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 2337501
Amount: 0.938133
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:34:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

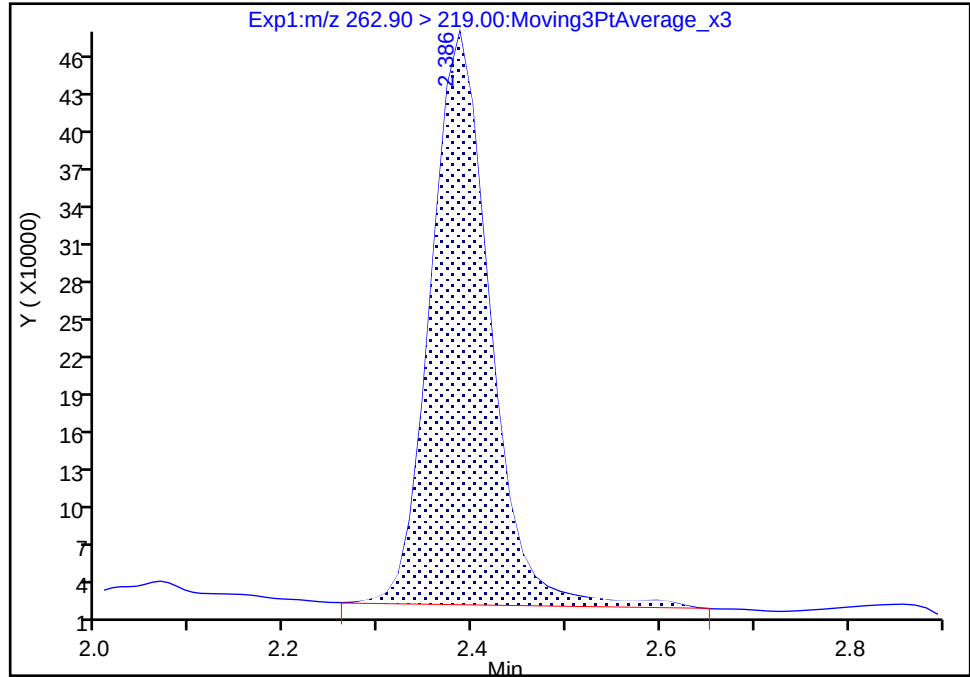
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

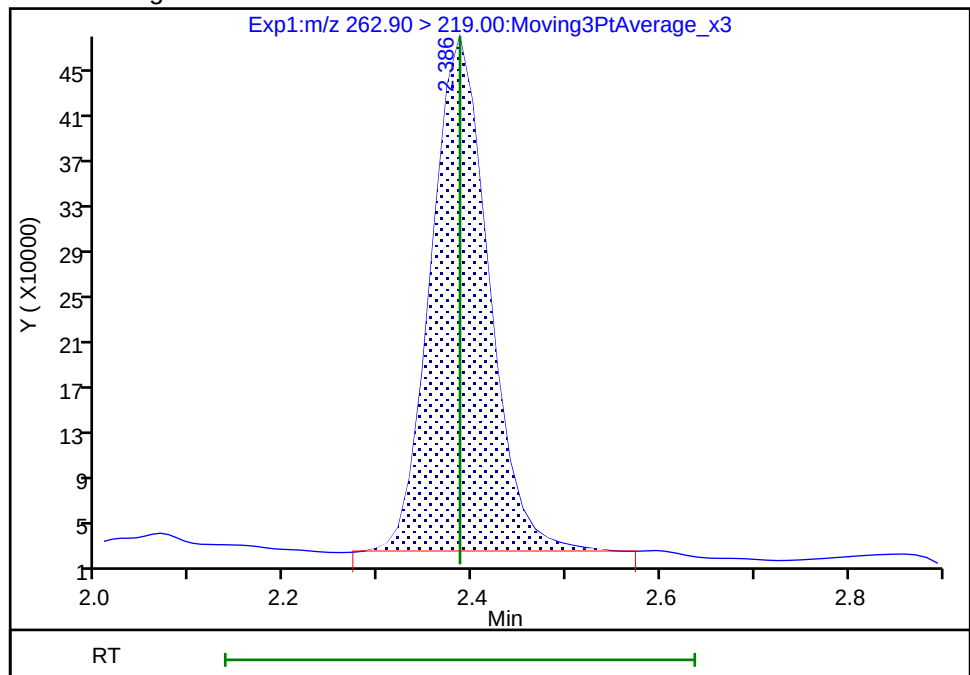
RT: 2.39
Area: 1999379
Amount: 0.990509
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1932783
Amount: 0.957517
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:34:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

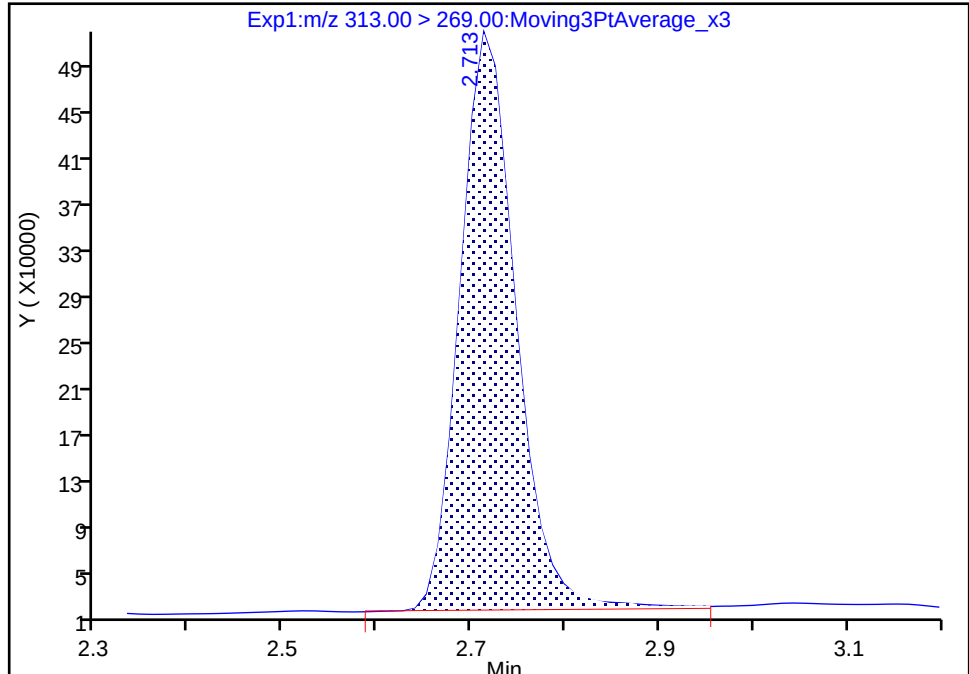
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

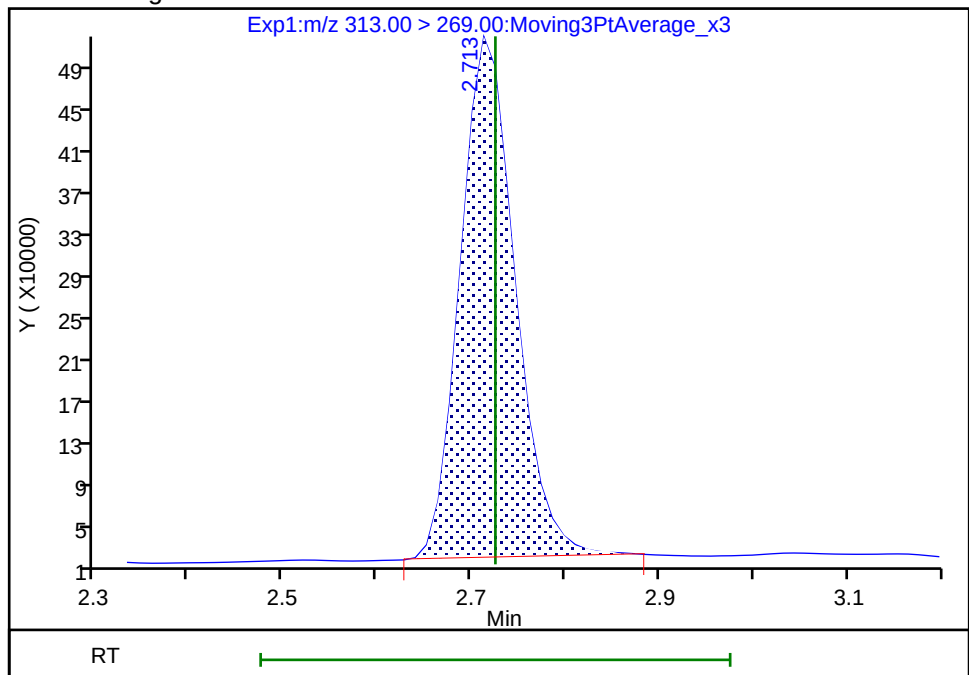
RT: 2.71
Area: 2078457
Amount: 0.982910
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 2026353
Amount: 0.958270
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:35:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1105 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

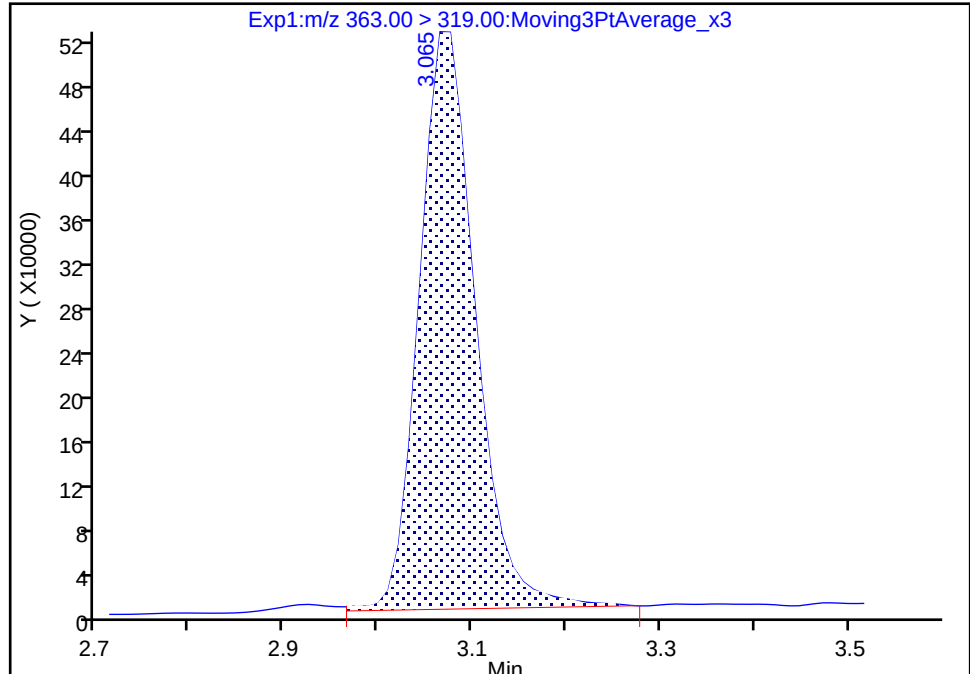
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

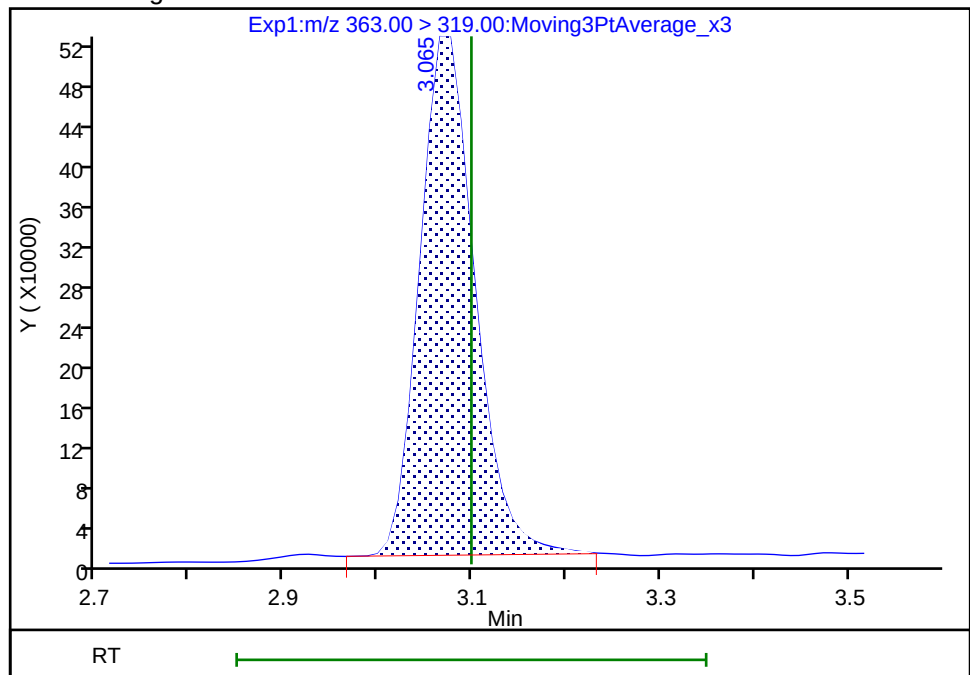
RT: 3.07
Area: 2139769
Amount: 0.939271
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 2084505
Amount: 0.915012
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:35:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1106 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

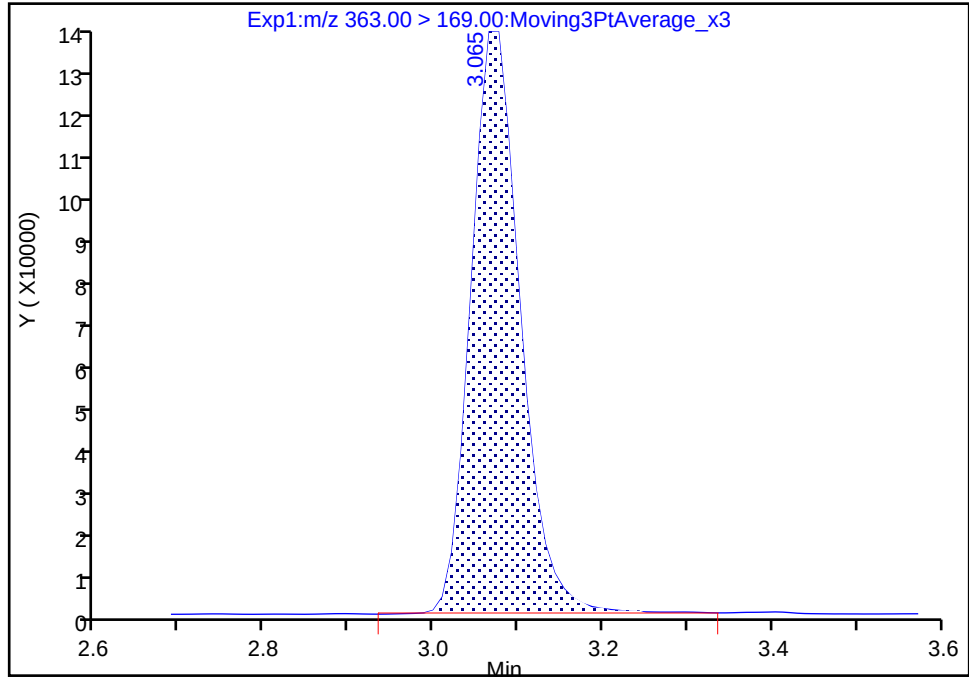
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

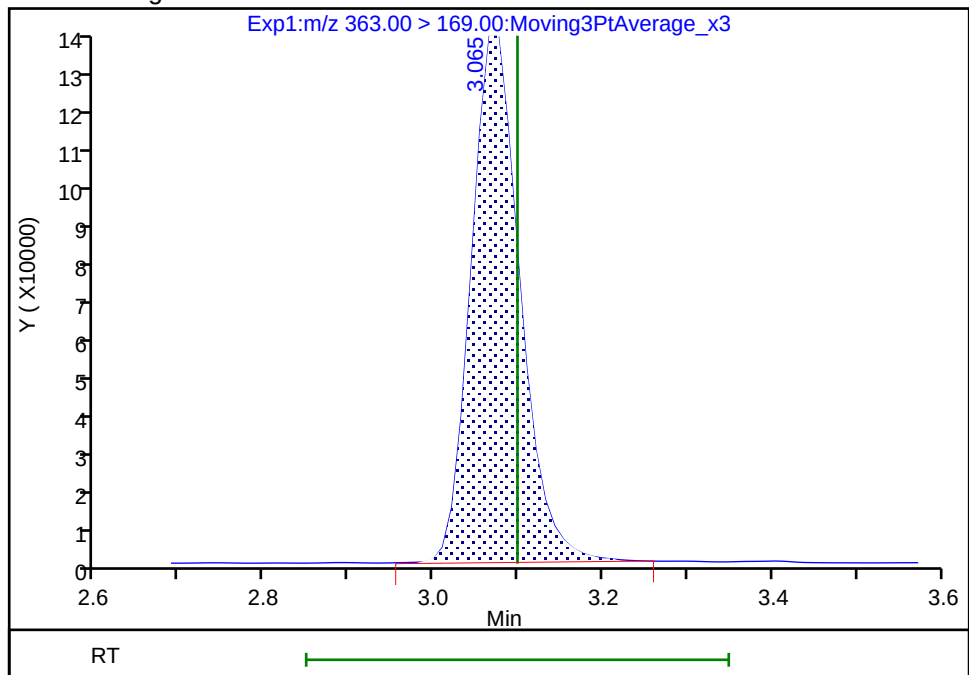
RT: 3.07
Area: 532581
Amount: 0.939271
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 528933
Amount: 0.915012
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:35:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1107 of 11421/9/2023 1:31
PM

Eurofins Burlington

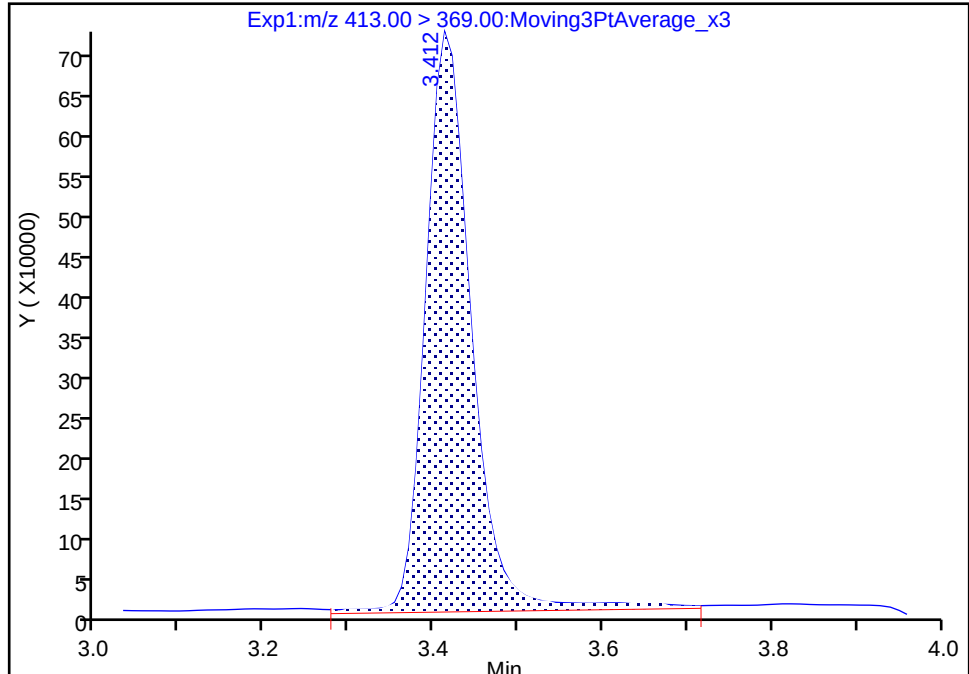
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

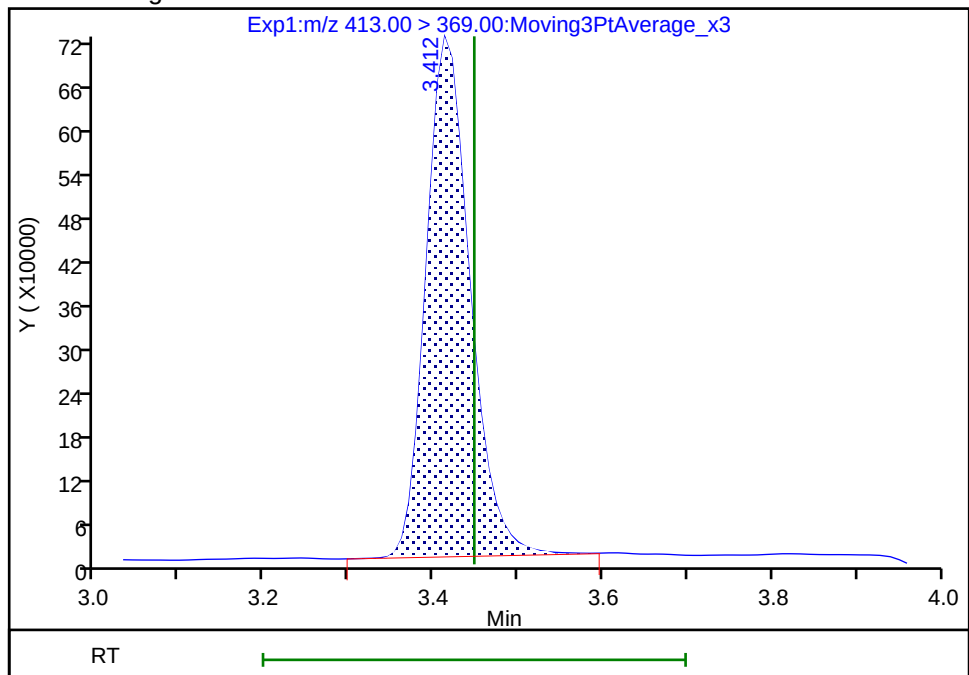
RT: 3.41
Area: 2729587
Amount: 1.004983
Amount Units: ng/ml

Processing Integration Results



RT: 3.41
Area: 2563859
Amount: 0.943965
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

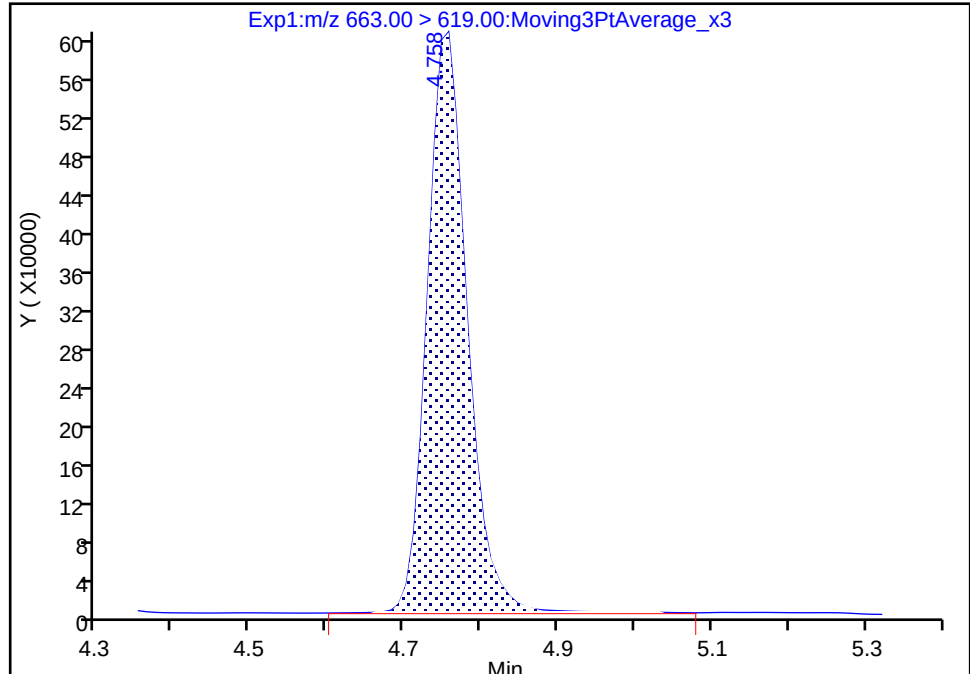
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

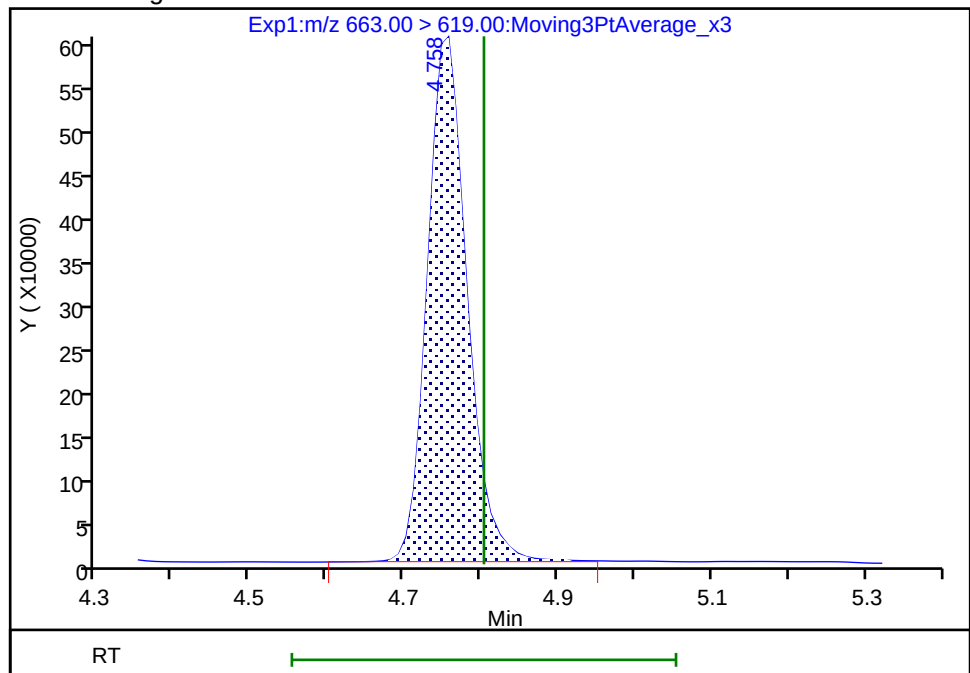
RT: 4.76
Area: 2172669
Amount: 0.908760
Amount Units: ng/ml

Processing Integration Results



RT: 4.76
Area: 2155832
Amount: 0.901717
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:37:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

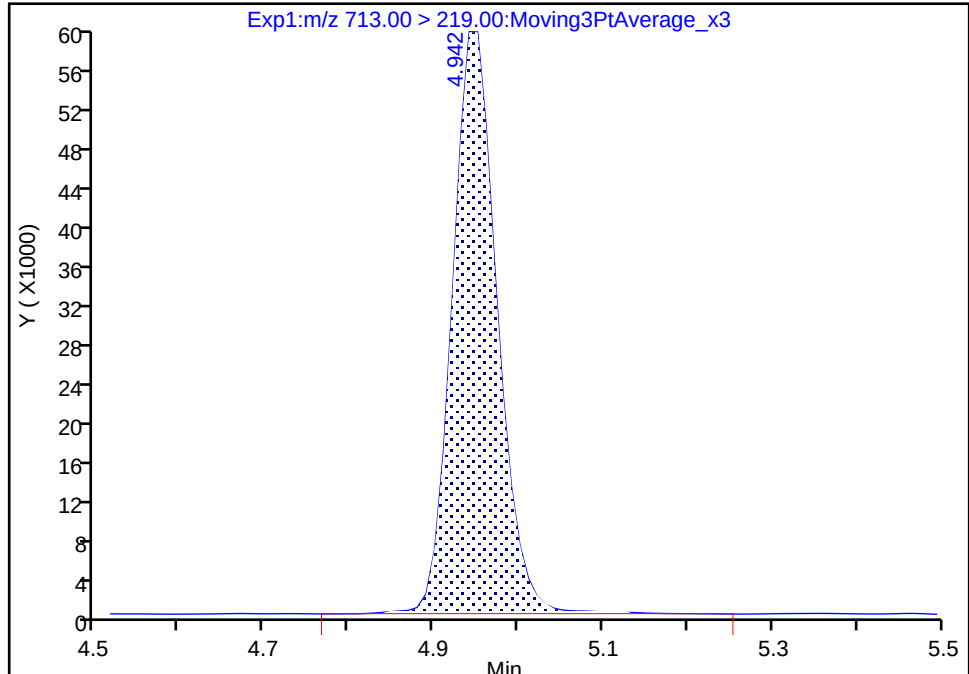
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

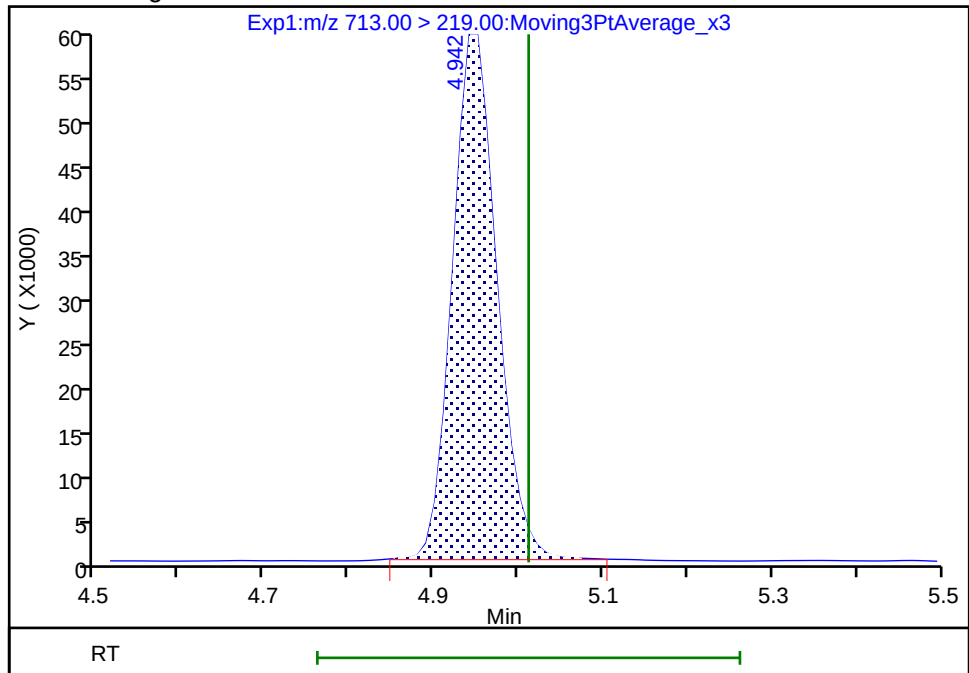
RT: 4.94
Area: 221862
Amount: 0.890480
Amount Units: ng/ml

Processing Integration Results



RT: 4.94
Area: 216705
Amount: 0.890480
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:37:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

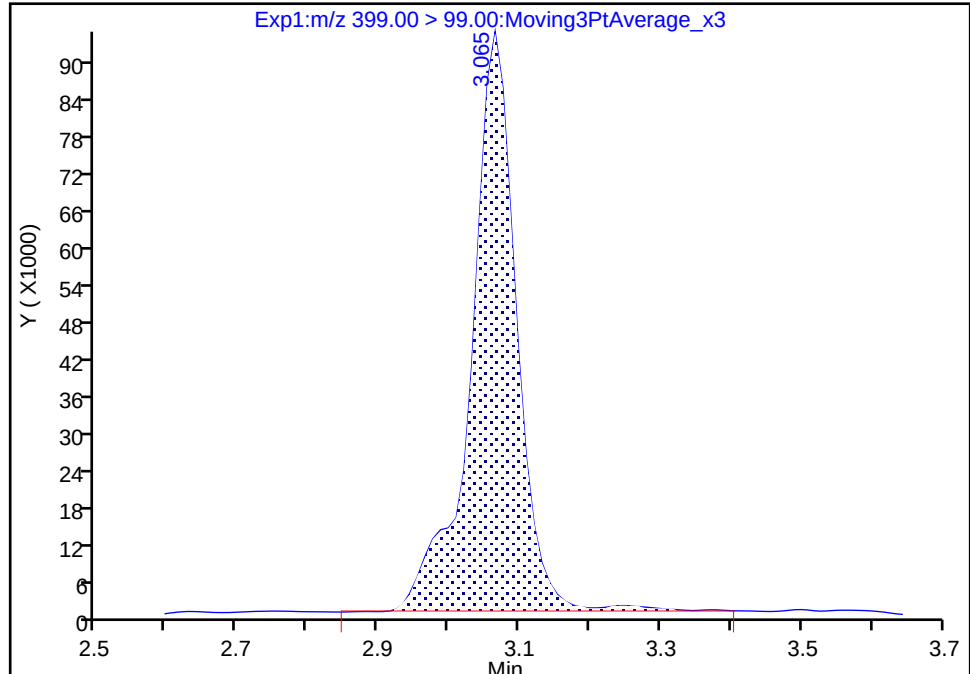
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

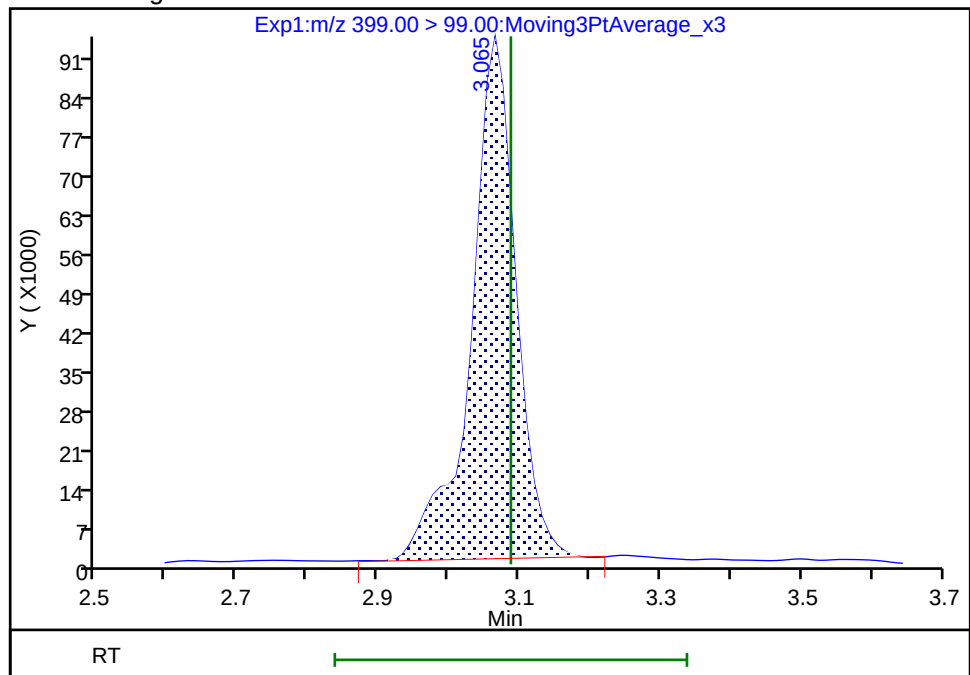
RT: 3.07
Area: 423403
Amount: 0.902565
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 411817
Amount: 0.902565
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:35:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

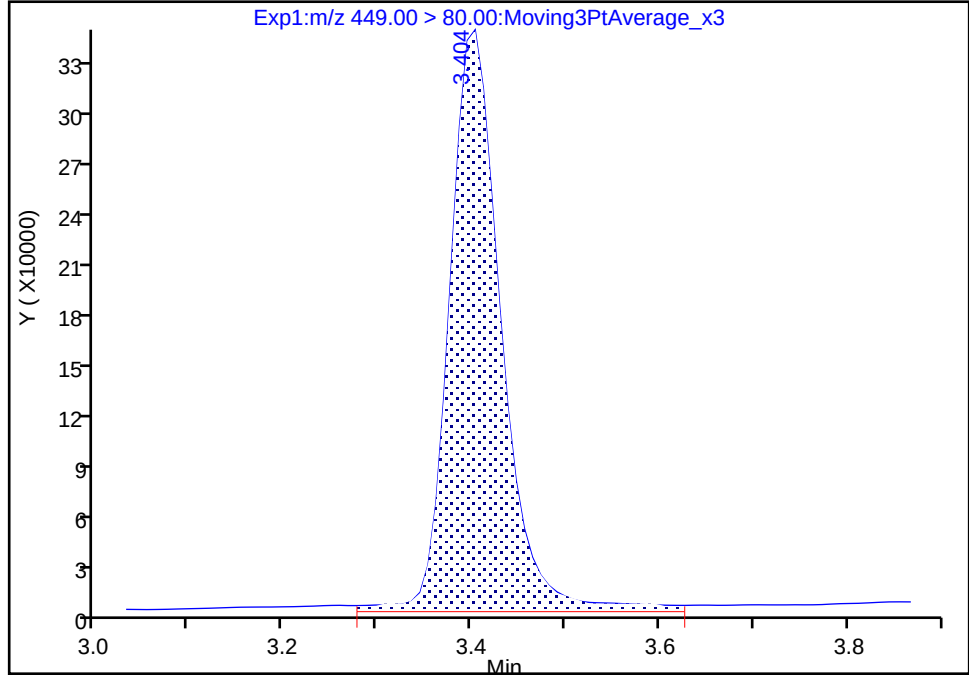
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

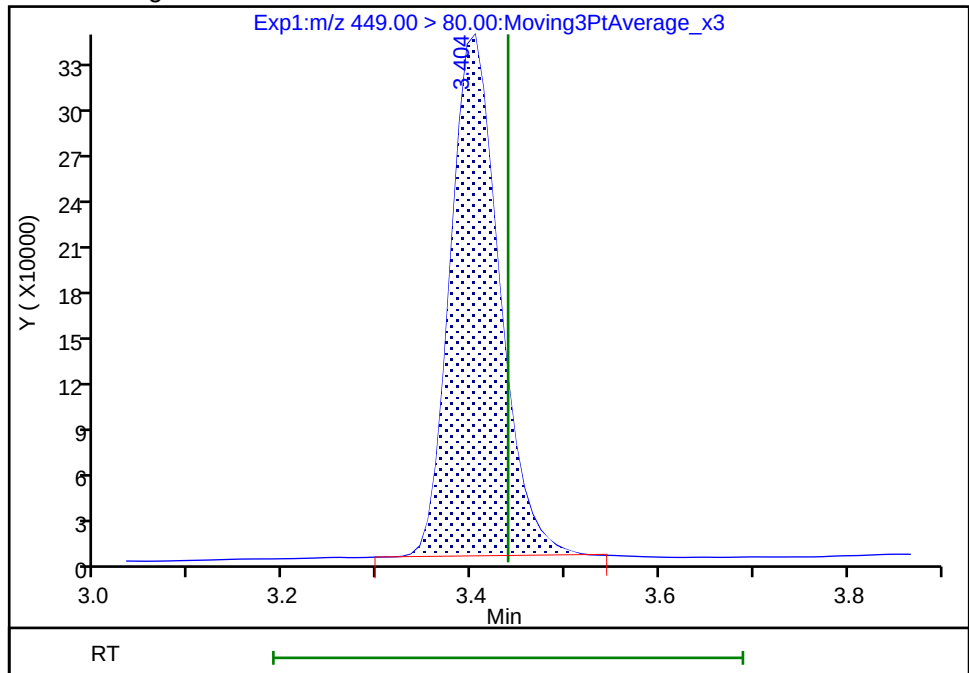
RT: 3.40
Area: 1328668
Amount: 0.945724
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 1237839
Amount: 0.881074
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

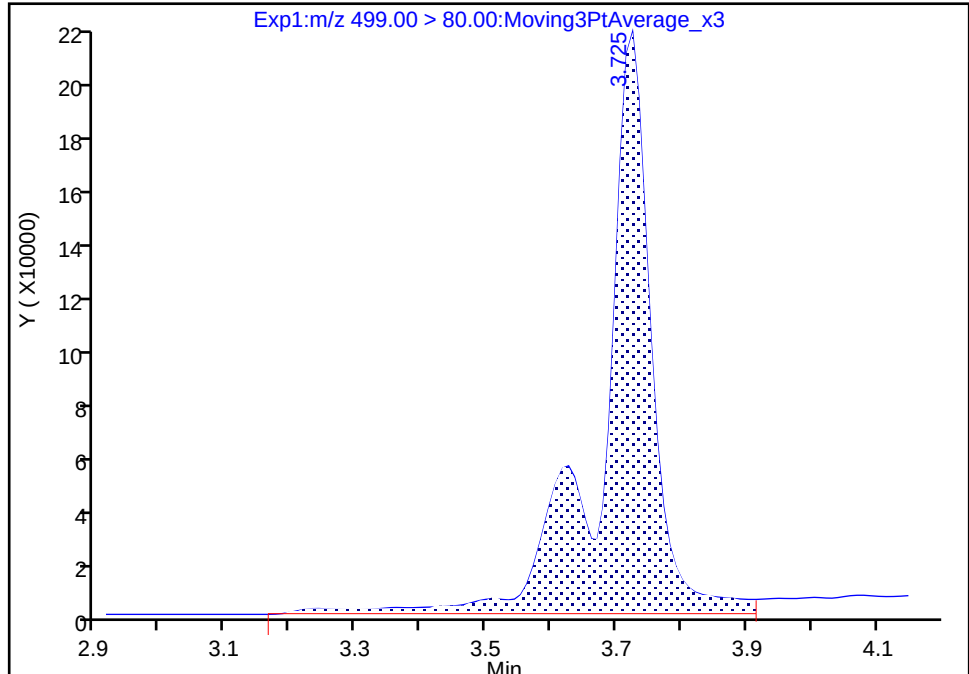
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

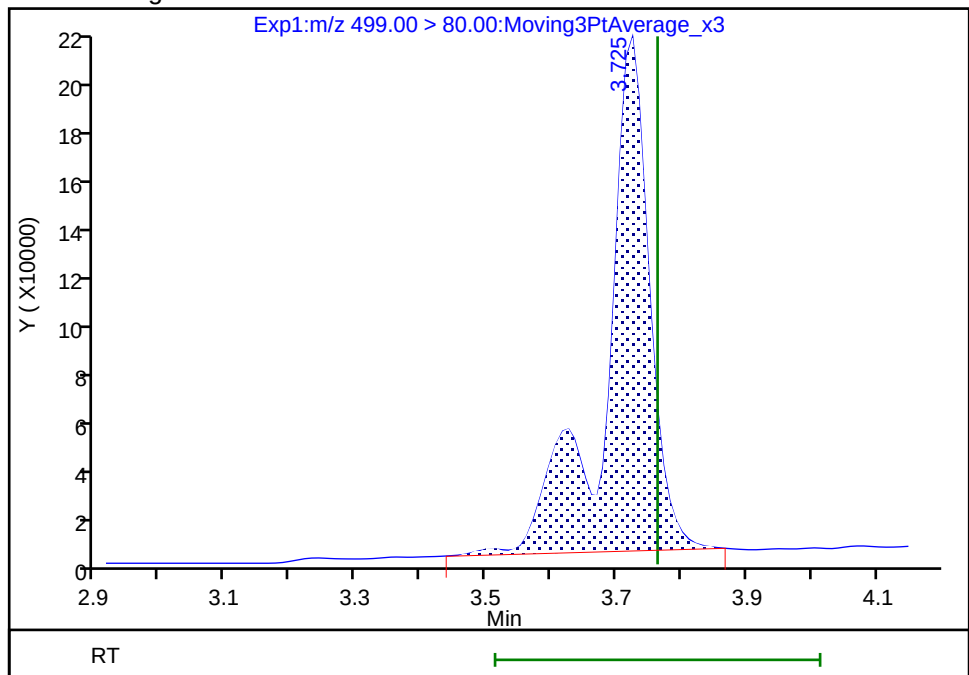
RT: 3.73
Area: 1170857
Amount: 0.957145
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 1005001
Amount: 0.821562
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1113 of 1142

1/9/2023 1:31
PM

Eurofins Burlington

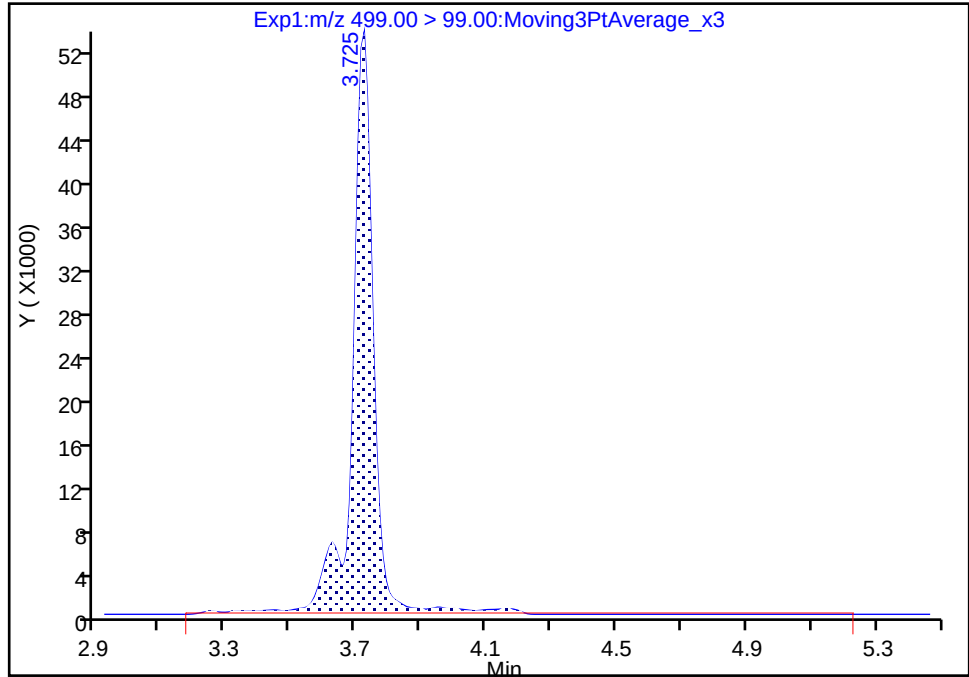
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

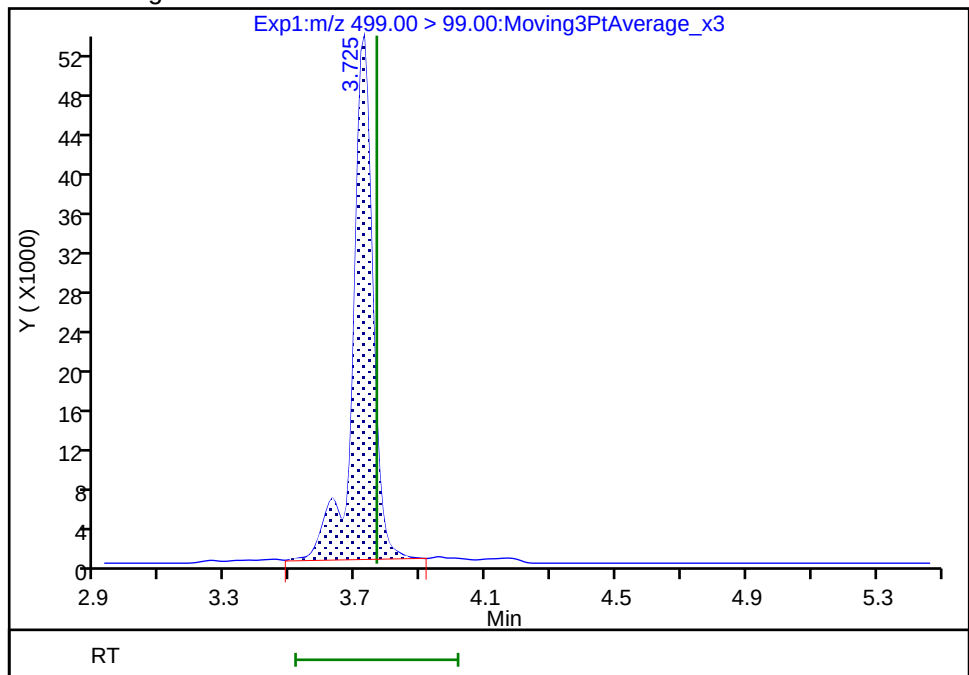
RT: 3.73
Area: 251564
Amount: 0.957145
Amount Units: ng/ml

Processing Integration Results



RT: 3.73
Area: 228342
Amount: 0.821562
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

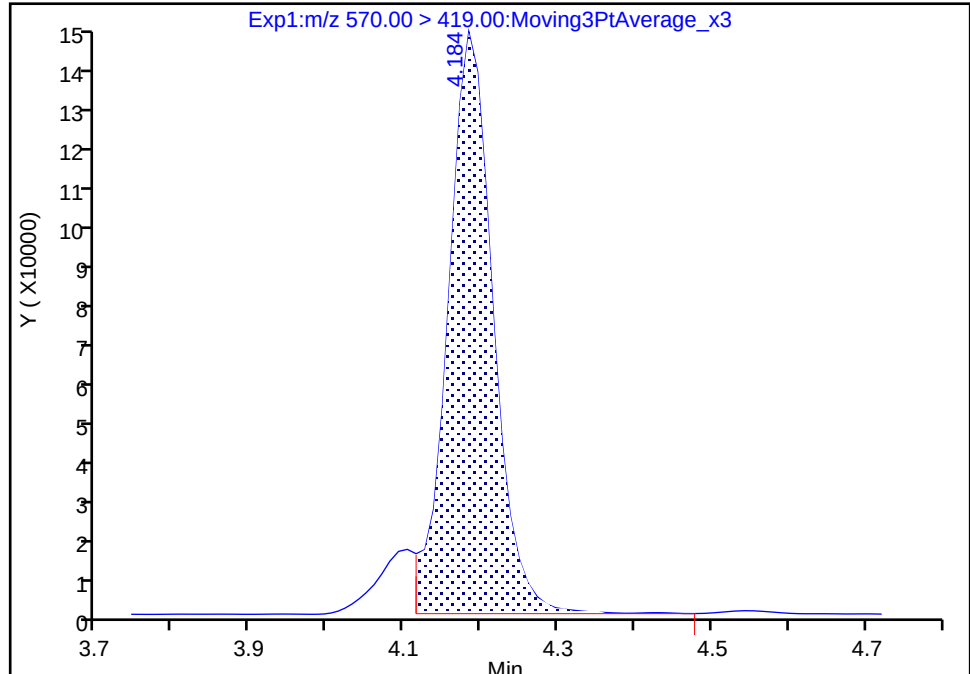
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

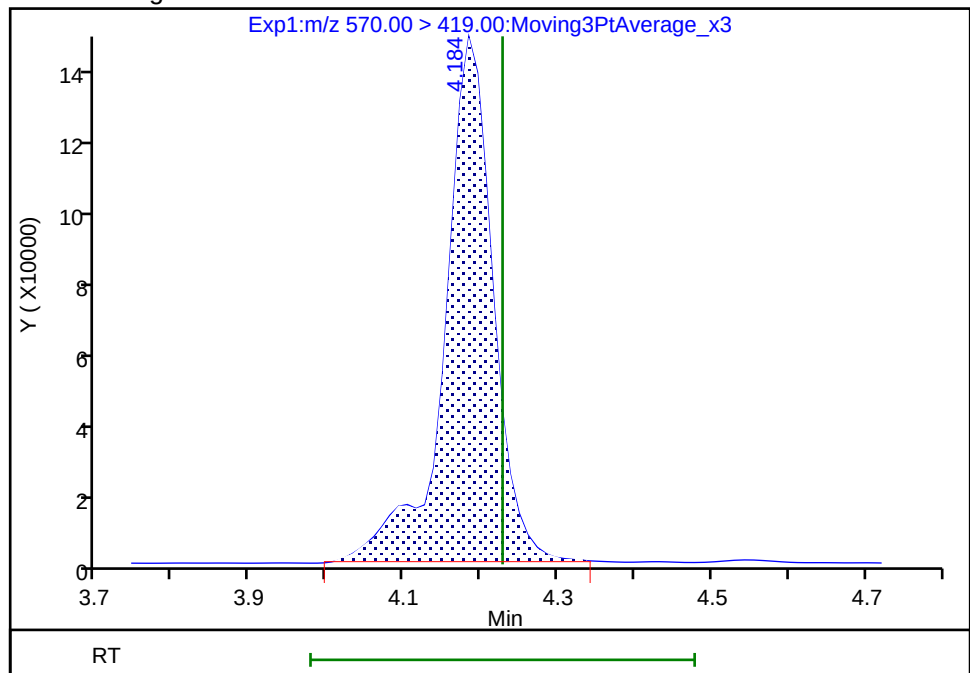
RT: 4.18
Area: 606325
Amount: 0.907032
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 652399
Amount: 0.988951
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

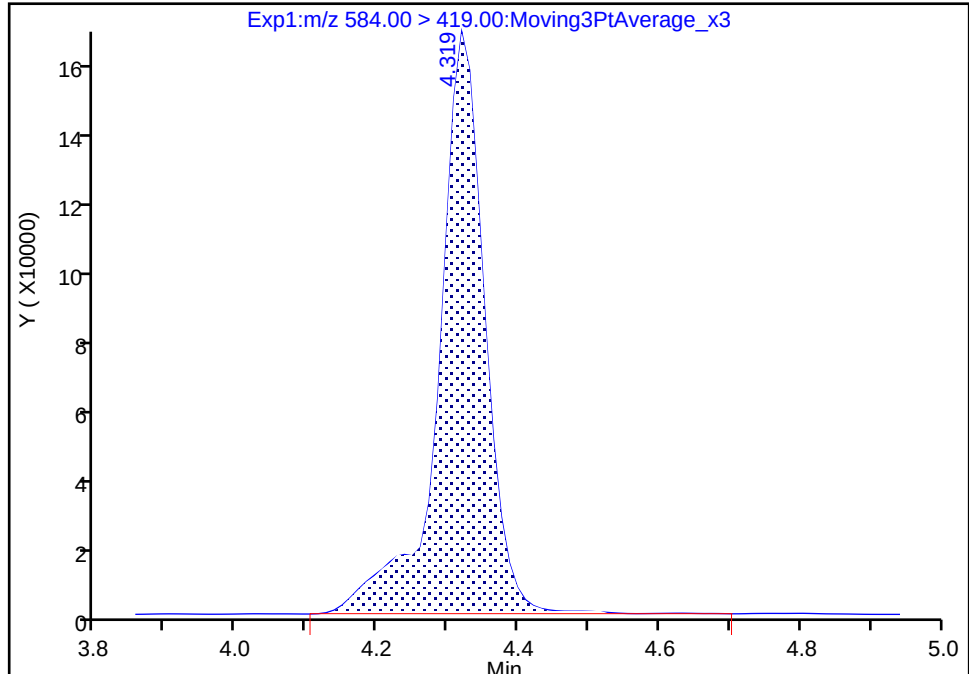
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

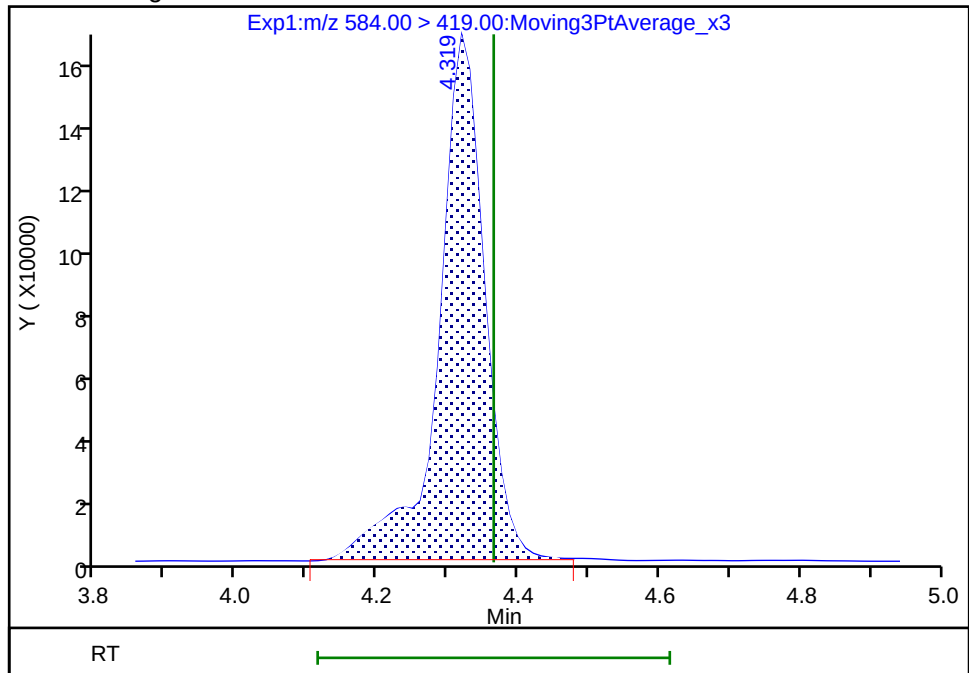
RT: 4.32
Area: 753522
Amount: 0.975256
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 737327
Amount: 0.954295
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:37:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

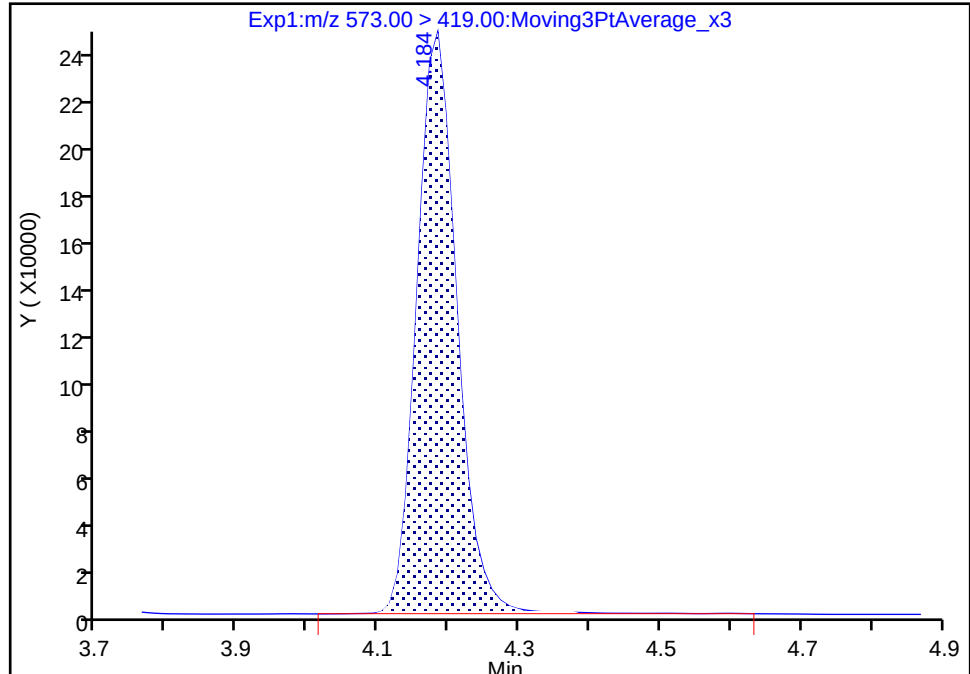
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

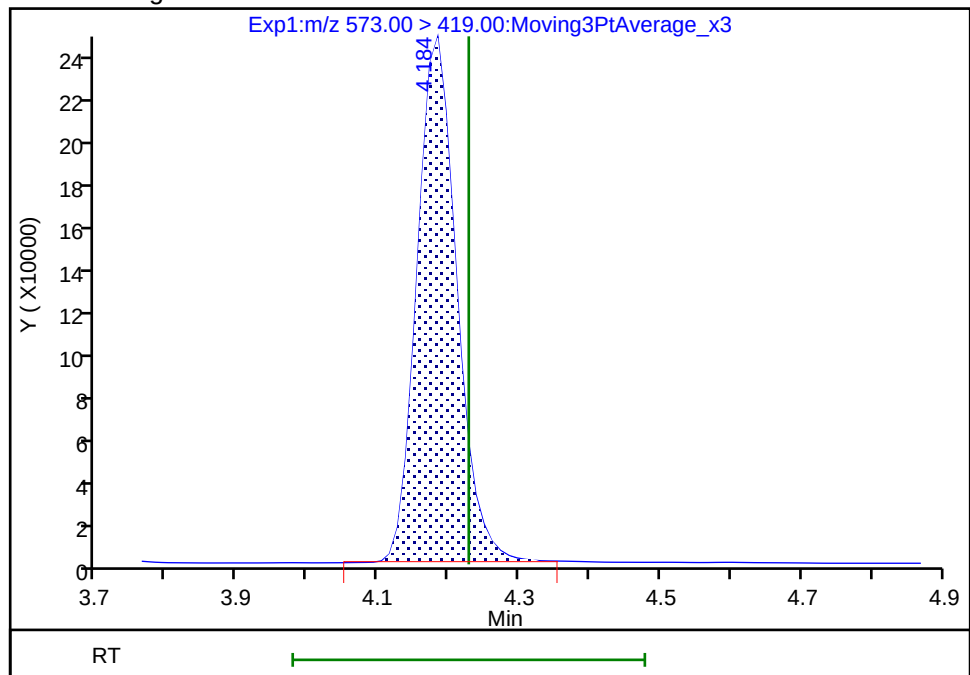
RT: 4.18
Area: 959046
Amount: 1.842385
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 947438
Amount: 1.820086
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

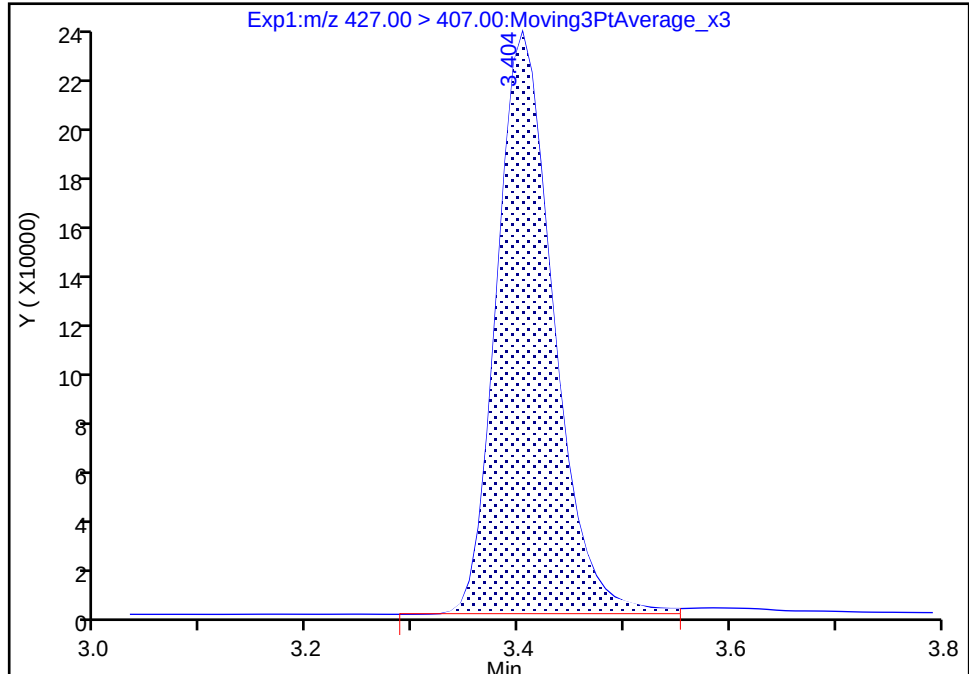
Data File: \\chromfs\Burlington\ChromData\LC812\20221230-53865.b\PA221230A12.d
Injection Date: 30-Dec-2022 14:14:53 Instrument ID: LC812
Lims ID: 480-204901-A-3-C MSD
Client ID: SS-12 MSD
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

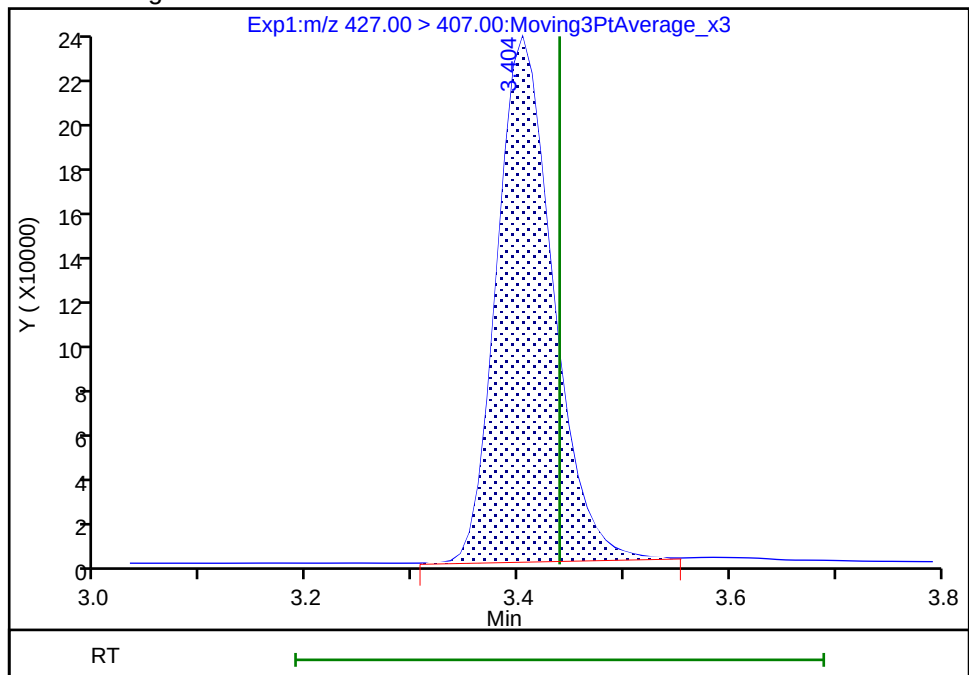
RT: 3.40
Area: 889213
Amount: 0.978123
Amount Units: ng/ml

Processing Integration Results



RT: 3.40
Area: 873382
Amount: 0.960497
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 03-Jan-2023 09:36:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Instrument ID: LC812 Start Date: 11/18/2022 13:57

Analysis Batch Number: 185958 End Date: 11/18/2022 15:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/18/2022 13:57	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:05	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:13	1		C-18 4.6 (mm)
ZZZZZ		11/18/2022 14:21	1		C-18 4.6 (mm)
IC 200-185958/5		11/18/2022 14:29	1	PA221118ICAL05. d	C-18 4.6 (mm)
IC 200-185958/6		11/18/2022 14:38	1	PA221118ICAL06. d	C-18 4.6 (mm)
IC 200-185958/7		11/18/2022 14:46	1	PA221118ICAL07. d	C-18 4.6 (mm)
ICISAV 200-185958/8		11/18/2022 14:54	1	PA221118ICAL08. d	C-18 4.6 (mm)
IC 200-185958/9		11/18/2022 15:02	1	PA221118ICAL09. d	C-18 4.6 (mm)
IC 200-185958/10		11/18/2022 15:10	1	PA221118ICAL10. d	C-18 4.6 (mm)
ICB 200-185958/11		11/18/2022 15:18	1	PA221118ICAL11. d	C-18 4.6 (mm)
ICV 200-185958/12		11/18/2022 15:27	1	PA221118ICAL12. d	C-18 4.6 (mm)
ZZZZZ		11/18/2022 15:35	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-271837-1
 SDG No.: _____
 Instrument ID: LC812 Start Date: 12/30/2022 12:44
 Analysis Batch Number: 187177 End Date: 12/30/2022 16:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/30/2022 12:44	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 12:53	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 13:01	1		C-18 4.6 (mm)
CCB 200-187177/4		12/30/2022 13:09	1	PA221230A04.d	C-18 4.6 (mm)
CCVLIS 200-187177/5		12/30/2022 13:17	1	PA221230A05.d	C-18 4.6 (mm)
MB 200-187080/1-A		12/30/2022 13:25	1	PA221230A06.d	C-18 4.6 (mm)
LCS 200-187080/2-A		12/30/2022 13:34	1	PA221230A07.d	C-18 4.6 (mm)
ZZZZZ		12/30/2022 13:42	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 13:50	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 13:58	1		C-18 4.6 (mm)
480-204901-A-3-B MS		12/30/2022 14:06	1	PA221230A11.d	C-18 4.6 (mm)
480-204901-A-3-C MSD		12/30/2022 14:14	1	PA221230A12.d	C-18 4.6 (mm)
ZZZZZ		12/30/2022 14:23	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 14:31	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 14:39	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 14:47	1		C-18 4.6 (mm)
460-271837-1	BCS-21-21_(10-10.5)P	12/30/2022 14:55	1	PA221230A17.d	C-18 4.6 (mm)
460-271837-2	BCS-21-22_(10-10.5)P	12/30/2022 15:03	1	PA221230A18.d	C-18 4.6 (mm)
460-271837-3	BCS-21-23_(10-10.5)P	12/30/2022 15:12	1	PA221230A19.d	C-18 4.6 (mm)
CCV 200-187177/20		12/30/2022 15:20	1	PA221230A20.d	C-18 4.6 (mm)
460-271837-4	BCS-21-24_(10-10.5)P	12/30/2022 15:28	1	PA221230A21.d	C-18 4.6 (mm)
ZZZZZ		12/30/2022 15:36	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 15:44	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 15:52	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:01	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:09	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:17	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:25	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:33	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 16:41	1		C-18 4.6 (mm)
CCV 200-187177/31		12/30/2022 16:50	1	PA221230A31.d	C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Instrument ID: LC812 Start Date: 12/30/2022 22:25

Analysis Batch Number: 187179 End Date: 12/31/2022 01:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-187179/1		12/30/2022 22:25	1	PA221230C01.d	C-18 4.6 (mm)
MB 200-187142/1-A		12/30/2022 22:33	1	PA221230C02.d	C-18 4.6 (mm)
LCS 200-187142/2-A		12/30/2022 22:41	1	PA221230C03.d	C-18 4.6 (mm)
LCSD 200-187142/3-A		12/30/2022 22:50	1	PA221230C04.d	C-18 4.6 (mm)
ZZZZZ		12/30/2022 22:58	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:06	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:14	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:22	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:31	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:39	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:47	1		C-18 4.6 (mm)
ZZZZZ		12/30/2022 23:55	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:03	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:11	1		C-18 4.6 (mm)
CCV 200-187179/15		12/31/2022 00:20	1	PA221230C15.d	C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:28	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:36	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:44	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 00:52	1		C-18 4.6 (mm)
460-271837-5	FB-21_122022P	12/31/2022 01:01	1	PA221230C20.d	C-18 4.6 (mm)
ZZZZZ		12/31/2022 01:09	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 01:17	1		C-18 4.6 (mm)
ZZZZZ		12/31/2022 01:25	1		C-18 4.6 (mm)
CCV 200-187179/24		12/31/2022 01:33	1	PA221230C24.d	C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, NathanBatch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	LCPFAS28NCICV 00012	PFAS32NCBLK20 00023	PFAS32NCIC1 00014	PFAS32NCIC2 00013	PFAS32NCIC3 00015
IC 200-185958/5		537 (modified)		1 mL			100 uL		
IC 200-185958/6		537 (modified)		1 mL				100 uL	
IC 200-185958/7		537 (modified)		1 mL					100 uL
ICISAV 200-185958/8		537 (modified)		1 mL					
IC 200-185958/9		537 (modified)		1 mL					
IC 200-185958/10		537 (modified)		1 mL					
ICB 200-185958/11		537 (modified)		1 mL		100 uL			
ICV 200-185958/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00036	PFAS32NCIC5 00030	PFAS32NCIC6 00013			
IC 200-185958/5		537 (modified)							
IC 200-185958/6		537 (modified)							
IC 200-185958/7		537 (modified)							
ICISAV 200-185958/8		537 (modified)		100 uL					
IC 200-185958/9		537 (modified)			100 uL				
IC 200-185958/10		537 (modified)				100 uL			
ICB 200-185958/11		537 (modified)							
ICV 200-185958/12		537 (modified)							

Batch Notes	

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

537 (modified)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 185958 Batch Start Date: 11/18/22 13:57 Batch Analyst: Dean, Nathan

Batch Method: 537 (modified) Batch End Date: _____

Basis	Basis Description

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

537 (modified)

Page 2 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 187080 Batch Start Date: 12/28/22 09:05 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 12/29/22 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00009	PFAS21 IS Stk 00049	
MB 200-187080/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-187080/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
480-204901-A-3 MS		SHAKE, 537 (modified)	T	5.13 g	10 mL	25 uL	100 uL	100 uL	
480-204901-A-3 MSD		SHAKE, 537 (modified)	T	5.00 g	10 mL	25 uL	100 uL	100 uL	
460-271837-A-1	BCS-21-21_(10-10 .5) P	SHAKE, 537 (modified)	T	5.18 g	10 mL		100 uL	100 uL	
460-271837-A-2	BCS-21-22_(10-10 .5) P	SHAKE, 537 (modified)	T	5.16 g	10 mL		100 uL	100 uL	
460-271837-A-3	BCS-21-23_(10-10 .5) P	SHAKE, 537 (modified)	T	5.13 g	10 mL		100 uL	100 uL	
460-271837-A-4	BCS-21-24_(10-10 .5) P	SHAKE, 537 (modified)	T	5.17 g	10 mL		100 uL	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)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 187080 Batch Start Date: 12/28/22 09:05 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 12/29/22 10:00

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	11/29/2022
Analyst ID - Reagent Drop Witness	NDD
SPE Cartridge Lot ID	Sorbent Lot: X1117-3H/1256 Prod Lot: E02773-1
SPE Cartridge Type	Phenomenex Strata PFAS (WAX/GCB), 500mg/ 6 mL
Hexane ID	30% Methanol/DI Water:1687233
Methanol ID	Lot:221080 TALS ID:1668571
Ammonium Hydroxide/MeOH ID	1687236
Sodium Hydroxide ID	1673391
Methanolic Potassium Hydroxide ID	1668906
Manifold ID	IDA 1, IDA 2
Acetic Acid ID	1453517
pH Indicator ID	234921U
Pipette/Syringe/Dispenser ID	QH77727
Analyst ID - IS Reagent Drop	KFW
Analyst ID - IS Reagent Drop Witness	NDD
Internal Standard ID	1677806
Analyst ID - Aliquot Step	KFW
Analyst ID - Final Volume Step	KFW
Sonication Start Time	12/28/2022 10:20
Sonication Stop Time	12/28/2022 13:20
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:E MTX:B IS:C

Basis	Basis Description
T	Total/NA

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

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 187142 Batch Start Date: 12/29/22 13:39 Batch Analyst: Wisniewski, Kurtis FBatch Method: 3535 Batch End Date: 12/29/22 19:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00049	LCPFIDA21_spk 00009
MB 200-187142/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		100 uL
LCS 200-187142/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
LCS 200-187142/3		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
460-271837-A-5	FB-21_122022P	3535, 537 (modified)	T	314.89 g	26.93 g	288 mL	10 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00049					
MB 200-187142/1		3535, 537 (modified)		100 uL					
LCS 200-187142/2		3535, 537 (modified)		100 uL					
LCS 200-187142/3		3535, 537 (modified)		100 uL					
460-271837-A-5	FB-21_122022P	3535, 537 (modified)	T	100 uL					

Batch Notes	
SPE Cartridge Type	Phenomenex Strata PFAS (Wax/GCB), 500mg/50mg/6mL
SPE Cartridge Lot ID	Sorbent Lot: X1117-3H/1256 Prod Lot: E02773-1
Balance ID	M02926
Manifold ID	IDA 1,2
Pipette/Syringe/Dispenser ID	QH77727
Solvent Name	Methanol (0.3% NH4OH)
Solvent Lot #	1687236
Rinse Solvent Name	NaOH/H2O
Rinse Solvent Lot	1687227
Analyst ID - Spike Analyst	KFW
Analyst ID - Spike Witness Analyst	EK
Batch Comment	30% MeOH ID: 1687233 IDA:D MTX:D IS:D

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

537 (modified)

Page 1 of 2

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 187142 Batch Start Date: 12/29/22 13:39 Batch Analyst: Wisniewski, Kurtis FBatch Method: 3535 Batch End Date: 12/29/22 19:10

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job Number: 460-271837-1

SDG No.: _____

Project: Inwood - Lot 21

Client Sample ID	Lab Sample ID
<u>BCS-21-21_(10-10.5)P</u>	<u>460-271837-1</u>
<u>BCS-21-22_(10-10.5)P</u>	<u>460-271837-2</u>
<u>BCS-21-23_(10-10.5)P</u>	<u>460-271837-3</u>
<u>BCS-21-24_(10-10.5)P</u>	<u>460-271837-4</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job Number: 460-271837-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 04/01/2009 07:55

Analyte	Wavelength/ Mass	RL (%)	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/28/2022 15:18 End Date: 12/28/2022 15:18

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l																	
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
460-271837-1	1	T	15:18	X																	
460-271837-2	1	T	15:18	X																	
460-271837-3	1	T	15:18	X																	
460-271837-4	1	T	15:18	X																	
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		
ZZZZZZ			15:18																		

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-271837-1

Batch: 187088
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 460-271837-A-1

Analysis Date: Dec 28, 2022 15:18

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	73.9446870451237	%

Lab Sample ID: 460-271837-A-2

Analysis Date: Dec 28, 2022 15:18

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	71.3622291021672	%

Lab Sample ID: 460-271837-A-3

Analysis Date: Dec 28, 2022 15:18

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	70.1072386058981	%

Lab Sample ID: 460-271837-A-4

Analysis Date: Dec 28, 2022 15:18

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	72.8179551122195	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-271837-1

SDG No.: _____

Batch Number: 187088 Batch Start Date: 12/28/22 15:18 Batch Analyst: McNabb, Robert WBatch Method: Moisture Batch End Date: 12/29/22 12:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
460-271837-A-1	BCS-21-21_(10-10 .5)P	Moisture	T	1.00 g	7.87 g	6.08 g	26.055312954876 3 %	73.944687045123 7 %	
460-271837-A-2	BCS-21-22_(10-10 .5)P	Moisture	T	0.98 g	7.44 g	5.59 g	28.637770897832 8 %	71.362229102167 2 %	
460-271837-A-3	BCS-21-23_(10-10 .5)P	Moisture	T	1.01 g	8.47 g	6.24 g	29.892761394101 9 %	70.107238605898 1 %	
460-271837-A-4	BCS-21-24_(10-10 .5)P	Moisture	T	1.00 g	9.02 g	6.84 g	27.182044887780 5 %	72.817955112219 5 %	

Batch Notes	
Balance ID	L92017
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=-1)
Date samples were placed in the oven	12/28/2022
Time samples were place in the oven	15:18
Temperature - Start - Uncorrected	109 Degrees C
Oven Temp In	108 Degrees C
Date samples were removed from oven	12/29/2022
Time Samples were removed from oven	11:45
Temperature - End - Uncorrected	109 Degrees C
Oven Temp Out	108 Degrees C
Date and Time Samples in Desiccator	12/29/2022 11:45
Date and Time Samples out of Desiccator	12/29/2022 12:00

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.

Moisture

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

TAL-8210

Form with multiple sections: Client Contact, Project Manager, Analysis Turnaround Time, Sample Identification, Sample Specific Notes, Sample Disposal, and Special Instructions/QC Requirements & Comments. Includes fields for dates, times, sample IDs, and checkboxes for various requirements.

271237

IR Gun #

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.2	2.2	Cooler #4:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃
			Cooler #7:	℃	℃
			Cooler #8:	℃	℃
			Cooler #9:	℃	℃

[illegible]

Sample No(s). adjusted: _____

Volume of Preservative used (ml):

Expiration Date:

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date: 12/20/22

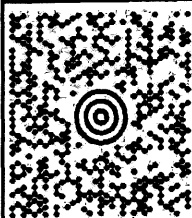
KENNETH RIVERA,
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

49 LBS

1 OF 3

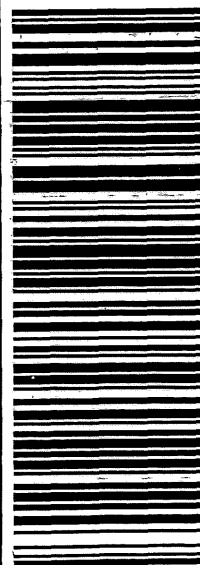
SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

VT 054 0-02



UPS NEXT DAY AIR EARLY 1+

TRACKING #: 1Z 73R 91R 15 9362 4887



BILLING: P/P



XOL 22-12-20 NV45 52:0A 12/2022*

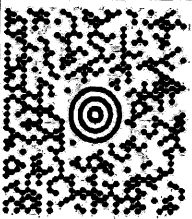
KENNETH RIVERA,
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

41 LBS

2 OF 3

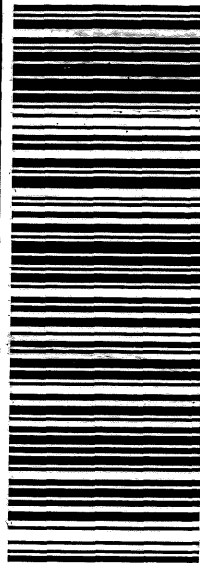
SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

VT 054 0-02



UPS NEXT DAY AIR EARLY 1+

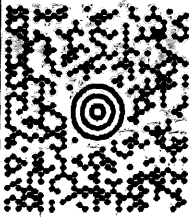
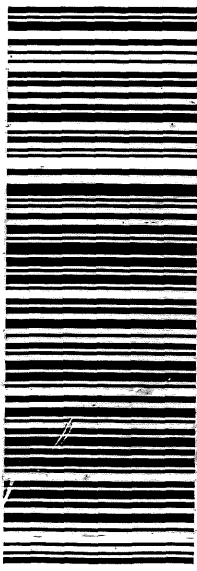
TRACKING #: 1Z 73R 91R 15 9346 1099



BILLING: P/P



XOL 22-12-20 NV45 52:0A 12/2022*

KENNETH RIVERA 9083615236 EUROFINS EDISON 777 NEW DURHAM ROAD EDISON NJ 08817		28 LBS	3 OF 3
SHIP TO: SAMPLE RECEIVING 8026551203 EUROFINS BURLINGTON 530 COMMUNITY DRIVE SOUTH BURLINGTON VT 05403			
	VT 0540-02 		
UPS NEXT DAY AIR EARLY 1+ TRACKING #: 1Z 73R 91R 15 9278 4902			
			
BILLING: P/P			
			

XOL 22.12.20 11:31 PM 12/2022*

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-271837-1

Login Number: 271837

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-271837-1

Login Number: 271837
List Number: 2
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington
List Creation: 12/22/22 12:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1969010, 9011, 9012
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.7°C, 1.9°C, 2.3°C
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	Received project as a subcontract.
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	