



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/21/2022 4:10 PM

JOB DESCRIPTION

Inwood - Lot 9

JOB NUMBER

460-269226-1

Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Sample Summary	5
Detection Summary	6
Method Summary	7
Client Sample Results	8
Isotope Dilution Summary	12
QC Sample Results	14
Definitions	19
QC Association	20
Chronicle	21
Certification Summary	23
Organic Sample Data	24
LCMS	24
Method PFC IDA	24
Method PFC IDA QC Summary	25
Method PFC IDA Sample Data	37
Standards Data	165
Method PFC IDA ICAL Data	165
Method PFC IDA CCAL Data	452
Raw QC Data	709
Method PFC IDA Blank Data	709
Method PFC IDA LCS/LCSD Data	837
Method PFC IDA MS/MSD Data	877
Method PFC IDA Run Logs	956

Table of Contents

Method PFC IDA Prep Data	959
Inorganic Sample Data	964
General Chemistry Data	964
Gen Chem Cover Page	965
Gen Chem MDL	966
Gen Chem Analysis Run Log	967
Gen Chem Raw Data	968
Gen Chem Prep Data	969
Subcontracted Data	970
Shipping and Receiving Documents	971
Client Chain of Custody	972
Sample Receipt Checklist	976
Appendix	978

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Inwood - Lot 9

Report Number: 460-269226-1

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 11/09/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

Receipt Exceptions

PFAS turnaround time (TAT) is 10 days, not 5 as listed on the 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-09-20_(10-10.5)P (460-269226-1), BCS-09-21_(10-10.5)P (460-269226-2), BCS-09-22_(10-10.5)P (460-269226-3) and BCS-09-23_(10-10.5)P (460-269226-4) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC-IDA - 537 (modified). The samples were prepared on 11/15/2022 and analyzed on 11/16/2022.

Method 537 (modified): Internal standard (ISTD) response for the following samples in analytical batch 200-185818 was outside acceptance criteria: (CCB 200-185818/4) and (CCVLIS 200-185818/5). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

No difficulties were encountered during the PFAS analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples BCS-09-20_(10-10.5)P (460-269226-1), BCS-09-21_(10-10.5)P (460-269226-2), BCS-09-22_(10-10.5)P (460-269226-3) and BCS-09-23_(10-10.5)P (460-269226-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/14/2022.

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 9

Job ID: 460-269226-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-269226-1	BCS-09-20_(10-10.5)P	Solid	11/09/22 13:05	11/09/22 19:00
460-269226-2	BCS-09-21_(10-10.5)P	Solid	11/09/22 13:15	11/09/22 19:00
460-269226-3	BCS-09-22_(10-10.5)P	Solid	11/09/22 13:25	11/09/22 19:00
460-269226-4	BCS-09-23_(10-10.5)P	Solid	11/09/22 13:35	11/09/22 19:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-20_(10-10.5)P

Lab Sample ID: 460-269226-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.079	J	0.25	0.069	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.069	J	0.25	0.058	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.039	J	0.25	0.024	ug/Kg	1		✱	537 (modified)	Total/NA

Client Sample ID: BCS-09-21_(10-10.5)P

Lab Sample ID: 460-269226-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.16	J	0.23	0.064	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.19	J	0.23	0.054	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.19	J	0.23	0.029	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	0.041	J	0.23	0.029	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.035	J	0.23	0.022	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.29		0.23	0.040	ug/Kg	1		✱	537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.33	J	2.33	0.13	ug/Kg	1		✱	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.47	J	2.33	0.097	ug/Kg	1		✱	537 (modified)	Total/NA

Client Sample ID: BCS-09-22_(10-10.5)P

Lab Sample ID: 460-269226-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.089	J	0.27	0.074	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.073	J	0.27	0.062	ug/Kg	1		✱	537 (modified)	Total/NA

Client Sample ID: BCS-09-23_(10-10.5)P

Lab Sample ID: 460-269226-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.096	J	0.31	0.084	ug/Kg	1		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.083	J	0.31	0.070	ug/Kg	1		✱	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
Moisture	Percent Moisture	EPA	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 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-20_(10-10.5)P

Lab Sample ID: 460-269226-1

Date Collected: 11/09/22 13:05

Matrix: Solid

Date Received: 11/09/22 19:00

Percent Solids: 79.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.63	U	0.63	0.41	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluoropentanoic acid (PFPeA)	0.079	J	0.25	0.069	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorohexanoic acid (PFHxA)	0.069	J	0.25	0.058	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.049	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.073	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.035	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.031	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.031	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.041	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.051	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorodecanesulfonic acid (PFDS)	0.039	J	0.25	0.024	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.51	U	2.51	0.14	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.51	U	2.51	0.10	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
6:2 FTS	2.51	U	2.51	0.072	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
8:2 FTS	2.51	U	2.51	0.046	ug/Kg	☼	11/15/22 15:30	11/16/22 21:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	78		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C4 PFHpA	85		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C4 PFOA	88		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C4 PFOS	82		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C5 PFNA	91		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C4 PFBA	62		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C2 PFHxA	81		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C2 PFDA	98		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C2 PFUnA	108		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C2 PFDoA	112		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C8 FOSA	84		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C5 PFPeA	75		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C2 PFTeDA	105		50 - 150				11/15/22 15:30	11/16/22 21:51	1
d3-NMeFOSAA	122		50 - 150				11/15/22 15:30	11/16/22 21:51	1
d5-NEtFOSAA	132		50 - 150				11/15/22 15:30	11/16/22 21:51	1
M2-6:2 FTS	80		50 - 150				11/15/22 15:30	11/16/22 21:51	1
M2-8:2 FTS	92		50 - 150				11/15/22 15:30	11/16/22 21:51	1
13C3 PFBS	75		50 - 150				11/15/22 15:30	11/16/22 21:51	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-21_(10-10.5)P

Lab Sample ID: 460-269226-2

Date Collected: 11/09/22 13:15

Matrix: Solid

Date Received: 11/09/22 19:00

Percent Solids: 84.8

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.58	U	0.58	0.39	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluoropentanoic acid (PFPeA)	0.16	J	0.23	0.064	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorohexanoic acid (PFHxA)	0.19	J	0.23	0.054	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.046	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.068	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.040	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.033	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.032	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorododecanoic acid (PFDoA)	0.19	J	0.23	0.029	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorotridecanoic acid (PFTriA)	0.041	J	0.23	0.029	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.030	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.039	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.048	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	0.23	0.027	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.13	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorodecanesulfonic acid (PFDS)	0.035	J	0.23	0.022	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
Perfluorooctanesulfonamide (FOSA)	0.29		0.23	0.040	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.33	J	2.33	0.13	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.47	J	2.33	0.097	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
6:2 FTS	2.33	U	2.33	0.067	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1
8:2 FTS	2.33	U	2.33	0.043	ug/Kg	☼	11/15/22 15:30	11/16/22 22:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	72		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C4 PFHpA	77		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C4 PFOA	85		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C4 PFOS	77		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C5 PFNA	82		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C4 PFBA	71		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C2 PFHxA	77		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C2 PFDA	90		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C2 PFUnA	93		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C2 PFDoA	99		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C8 FOSA	78		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C5 PFPeA	72		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C2 PFTeA	99		50 - 150	11/15/22 15:30	11/16/22 22:07	1
d3-NMeFOSAA	115		50 - 150	11/15/22 15:30	11/16/22 22:07	1
d5-NEtFOSAA	120		50 - 150	11/15/22 15:30	11/16/22 22:07	1
M2-6:2 FTS	78		50 - 150	11/15/22 15:30	11/16/22 22:07	1
M2-8:2 FTS	79		50 - 150	11/15/22 15:30	11/16/22 22:07	1
13C3 PFBS	71		50 - 150	11/15/22 15:30	11/16/22 22:07	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-22_(10-10.5)P

Lab Sample ID: 460-269226-3

Date Collected: 11/09/22 13:25

Matrix: Solid

Date Received: 11/09/22 19:00

Percent Solids: 71.3

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	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluoropentanoic acid (PFPeA)	0.089	J	0.27	0.074	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorohexanoic acid (PFHxA)	0.073	J	0.27	0.062	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluoroheptanoic acid (PFHpA)	0.27	U	0.27	0.053	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorooctanoic acid (PFOA)	0.27	U	0.27	0.079	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorononanoic acid (PFNA)	0.27	U	0.27	0.046	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorodecanoic acid (PFDA)	0.27	U	0.27	0.038	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluoroundecanoic acid (PFUnA)	0.27	U	0.27	0.037	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorododecanoic acid (PFDoA)	0.27	U	0.27	0.034	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorotridecanoic acid (PFTriA)	0.27	U	0.27	0.034	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	0.27	0.035	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorobutanesulfonic acid (PFBS)	0.27	U	0.27	0.045	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.27	U	0.27	0.055	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluoroheptanesulfonic acid (PFHpS)	0.27	U	0.27	0.031	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorooctanesulfonic acid (PFOS)	0.27	U	0.27	0.15	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	0.27	0.026	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
Perfluorooctanesulfonamide (FOSA)	0.27	U	0.27	0.046	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.71	U	2.71	0.15	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.71	U	2.71	0.11	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
6:2 FTS	2.71	U	2.71	0.077	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1
8:2 FTS	2.71	U	2.71	0.050	ug/Kg	☼	11/15/22 15:30	11/16/22 22:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	73		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C4 PFHpA	79		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C4 PFOA	83		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C4 PFOS	72		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C5 PFNA	85		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C4 PFBA	74		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C2 PFHxA	83		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C2 PFDA	80		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C2 PFUnA	89		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C2 PFDoA	90		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C8 FOSA	68		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C5 PFPeA	73		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C2 PFTeA	91		50 - 150	11/15/22 15:30	11/16/22 22:15	1
d3-NMeFOSAA	113		50 - 150	11/15/22 15:30	11/16/22 22:15	1
d5-NEtFOSAA	114		50 - 150	11/15/22 15:30	11/16/22 22:15	1
M2-6:2 FTS	75		50 - 150	11/15/22 15:30	11/16/22 22:15	1
M2-8:2 FTS	72		50 - 150	11/15/22 15:30	11/16/22 22:15	1
13C3 PFBS	69		50 - 150	11/15/22 15:30	11/16/22 22:15	1

Eurofins Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-23_(10-10.5)P

Lab Sample ID: 460-269226-4

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 19:00

Percent Solids: 63.3

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluoropentanoic acid (PFPeA)	0.096	J	0.31	0.084	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorohexanoic acid (PFHxA)	0.083	J	0.31	0.070	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluoroheptanoic acid (PFHpA)	0.31	U	0.31	0.060	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorooctanoic acid (PFOA)	0.31	U	0.31	0.089	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorononanoic acid (PFNA)	0.31	U	0.31	0.052	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorodecanoic acid (PFDA)	0.31	U	0.31	0.043	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluoroundecanoic acid (PFUnA)	0.31	U	0.31	0.041	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorododecanoic acid (PFDoA)	0.31	U	0.31	0.038	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorotridecanoic acid (PFTriA)	0.31	U	0.31	0.038	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorotetradecanoic acid (PFTeA)	0.31	U	0.31	0.040	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorobutanesulfonic acid (PFBS)	0.31	U	0.31	0.050	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.31	U	0.31	0.063	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluoroheptanesulfonic acid (PFHpS)	0.31	U	0.31	0.035	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorooctanesulfonic acid (PFOS)	0.31	U	0.31	0.17	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	0.31	0.029	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
Perfluorooctanesulfonamide (FOSA)	0.31	U	0.31	0.052	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.06	U	3.06	0.17	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.06	U	3.06	0.13	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
6:2 FTS	3.06	U	3.06	0.087	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1
8:2 FTS	3.06	U	3.06	0.057	ug/Kg	☼	11/15/22 15:30	11/16/22 22:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	78		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C4 PFHpA	83		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C4 PFOA	84		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C4 PFOS	75		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C5 PFNA	84		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C4 PFBA	82		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C2 PFHxA	82		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C2 PFDA	90		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C2 PFUnA	104		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C2 PFDoA	95		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C8 FOSA	71		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C5 PFPeA	80		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C2 PFTeA	76		50 - 150	11/15/22 15:30	11/16/22 22:23	1
d3-NMeFOSAA	123		50 - 150	11/15/22 15:30	11/16/22 22:23	1
d5-NEtFOSAA	136		50 - 150	11/15/22 15:30	11/16/22 22:23	1
M2-6:2 FTS	98		50 - 150	11/15/22 15:30	11/16/22 22:23	1
M2-8:2 FTS	113		50 - 150	11/15/22 15:30	11/16/22 22:23	1
13C3 PFBS	77		50 - 150	11/15/22 15:30	11/16/22 22:23	1

Eurofins Edison

Isotope Dilution Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

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)
460-268915-A-1-B MS	Matrix Spike	83	87	86	85	89	71	85	93
460-268915-A-1-C MSD	Matrix Spike Duplicate	85	84	87	86	89	69	81	88
460-269226-1	BCS-09-20_(10-10.5)P	78	85	88	82	91	62	81	98
460-269226-2	BCS-09-21_(10-10.5)P	72	77	85	77	82	71	77	90
460-269226-3	BCS-09-22_(10-10.5)P	73	79	83	72	85	74	83	80
460-269226-4	BCS-09-23_(10-10.5)P	78	83	84	75	84	82	82	90
LCS 200-185793/2-A	Lab Control Sample	78	79	83	84	86	68	81	86
MB 200-185793/1-A	Method Blank	78	77	84	81	79	65	79	89

		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)
460-268915-A-1-B MS	Matrix Spike	101	97	84	76	79	126	127	88
460-268915-A-1-C MSD	Matrix Spike Duplicate	98	94	86	74	94	127	124	88
460-269226-1	BCS-09-20_(10-10.5)P	108	112	84	75	105	122	132	80
460-269226-2	BCS-09-21_(10-10.5)P	93	99	78	72	99	115	120	78
460-269226-3	BCS-09-22_(10-10.5)P	89	90	68	73	91	113	114	75
460-269226-4	BCS-09-23_(10-10.5)P	104	95	71	80	76	123	136	98
LCS 200-185793/2-A	Lab Control Sample	89	81	84	76	75	123	122	88
MB 200-185793/1-A	Method Blank	93	84	81	70	77	117	118	83

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (50-150)	C3PFBS (50-150)
460-268915-A-1-B MS	Matrix Spike	85	79
460-268915-A-1-C MSD	Matrix Spike Duplicate	87	80
460-269226-1	BCS-09-20_(10-10.5)P	92	75
460-269226-2	BCS-09-21_(10-10.5)P	79	71
460-269226-3	BCS-09-22_(10-10.5)P	72	69
460-269226-4	BCS-09-23_(10-10.5)P	113	77
LCS 200-185793/2-A	Lab Control Sample	86	77
MB 200-185793/1-A	Method Blank	82	75

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: 460-269226-1

Project/Site: Inwood - Lot 9

C3PFBS = 13C3 PFBS

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-185793/1-A

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185793

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		11/15/22 15:30	11/16/22 20:12	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.055	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.046	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.039	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.058	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.034	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.028	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.027	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.025	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.025	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.026	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	0.20	0.033	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.041	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	U	0.20	0.023	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
Perfluorooctanesulfonamide (FOSA)	0.20	U	0.20	0.034	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.11	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.083	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
6:2 FTS	2.00	U	2.00	0.057	ug/Kg		11/15/22 15:30	11/16/22 20:12	1
8:2 FTS	2.00	U	2.00	0.037	ug/Kg		11/15/22 15:30	11/16/22 20:12	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	78		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C4 PFHpA	77		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C4 PFOA	84		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C4 PFOS	81		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C5 PFNA	79		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C4 PFBA	65		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C2 PFHxA	79		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C2 PFDA	89		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C2 PFUnA	93		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C2 PFDoA	84		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C8 FOSA	81		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C5 PFPeA	70		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C2 PFTeDA	77		50 - 150	11/15/22 15:30	11/16/22 20:12	1
d3-NMeFOSAA	117		50 - 150	11/15/22 15:30	11/16/22 20:12	1
d5-NEtFOSAA	118		50 - 150	11/15/22 15:30	11/16/22 20:12	1
M2-6:2 FTS	83		50 - 150	11/15/22 15:30	11/16/22 20:12	1
M2-8:2 FTS	82		50 - 150	11/15/22 15:30	11/16/22 20:12	1
13C3 PFBS	75		50 - 150	11/15/22 15:30	11/16/22 20:12	1

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

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

Lab Sample ID: LCS 200-185793/2-A

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	1.885		ug/Kg		94	60 - 140
Perfluoropentanoic acid (PFPeA)	2.00	1.873		ug/Kg		94	60 - 140
Perfluorohexanoic acid (PFHxA)	2.00	1.773		ug/Kg		89	60 - 140
Perfluoroheptanoic acid (PFHpA)	2.00	1.842		ug/Kg		92	60 - 140
Perfluorooctanoic acid (PFOA)	2.00	1.901		ug/Kg		95	60 - 140
Perfluorononanoic acid (PFNA)	2.00	1.837		ug/Kg		92	60 - 140
Perfluorodecanoic acid (PFDA)	2.00	1.918		ug/Kg		96	60 - 140
Perfluoroundecanoic acid (PFUnA)	2.00	1.979		ug/Kg		99	60 - 140
Perfluorododecanoic acid (PFDoA)	2.00	1.882		ug/Kg		94	60 - 140
Perfluorotridecanoic acid (PFTriA)	2.00	1.787		ug/Kg		89	60 - 140
Perfluorotetradecanoic acid (PFTeA)	2.00	1.607		ug/Kg		80	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.77	1.691		ug/Kg		96	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.703		ug/Kg		94	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.776		ug/Kg		93	60 - 140
Perfluorooctanesulfonic acid (PFOS)	1.86	1.682		ug/Kg		91	60 - 140
Perfluorodecanesulfonic acid (PFDS)	1.93	1.675		ug/Kg		87	60 - 140
Perfluorooctanesulfonamide (FOSA)	2.00	1.896		ug/Kg		95	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.880	J	ug/Kg		94	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.821	J	ug/Kg		91	60 - 140
6:2 FTS	1.90	2.085		ug/Kg		110	50 - 150
8:2 FTS	1.92	2.342		ug/Kg		122	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	78		50 - 150
13C4 PFHpA	79		50 - 150
13C4 PFOA	83		50 - 150
13C4 PFOS	84		50 - 150
13C5 PFNA	86		50 - 150
13C4 PFBA	68		50 - 150
13C2 PFHxA	81		50 - 150
13C2 PFDA	86		50 - 150
13C2 PFUnA	89		50 - 150
13C2 PFDoA	81		50 - 150
13C8 FOSA	84		50 - 150
13C5 PFPeA	76		50 - 150
13C2 PFTeDA	75		50 - 150
d3-NMeFOSAA	123		50 - 150
d5-NEtFOSAA	122		50 - 150
M2-6:2 FTS	88		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

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

Lab Sample ID: LCS 200-185793/2-A

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185793

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
M2-8:2 FTS	86		50 - 150
13C3 PFBS	77		50 - 150

Lab Sample ID: 460-268915-A-1-B MS

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 185793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.57	U	2.25	2.224		ug/Kg	☼	99	60 - 140
Perfluoropentanoic acid (PFPeA)	0.23	U	2.25	2.330		ug/Kg	☼	104	60 - 140
Perfluorohexanoic acid (PFHxA)	0.23	U	2.25	2.063		ug/Kg	☼	92	60 - 140
Perfluoroheptanoic acid (PFHpA)	0.23	U	2.25	2.149		ug/Kg	☼	96	60 - 140
Perfluorooctanoic acid (PFOA)	0.23	U	2.25	2.181		ug/Kg	☼	97	60 - 140
Perfluorononanoic acid (PFNA)	0.23	U	2.25	2.243		ug/Kg	☼	100	60 - 140
Perfluorodecanoic acid (PFDA)	0.23	U	2.25	2.261		ug/Kg	☼	101	60 - 140
Perfluoroundecanoic acid (PFUnA)	0.23	U	2.25	2.183		ug/Kg	☼	97	60 - 140
Perfluorododecanoic acid (PFDoA)	0.23	U	2.25	2.077		ug/Kg	☼	92	60 - 140
Perfluorotridecanoic acid (PFTriA)	0.23	U	2.25	1.884		ug/Kg	☼	84	60 - 140
Perfluorotetradecanoic acid (PFTeA)	0.23	U	2.25	1.968		ug/Kg	☼	88	60 - 140
Perfluorobutanesulfonic acid (PFBS)	0.23	U	1.98	1.873		ug/Kg	☼	94	60 - 140
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	2.04	1.921		ug/Kg	☼	94	60 - 140
Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	2.14	2.069		ug/Kg	☼	97	60 - 140
Perfluorooctanesulfonic acid (PFOS)	0.23	U	2.08	2.023		ug/Kg	☼	97	60 - 140
Perfluorodecanesulfonic acid (PFDS)	0.23	U	2.16	2.040		ug/Kg	☼	94	60 - 140
Perfluorooctanesulfonamide (FOSA)	0.23	U	2.25	2.210		ug/Kg	☼	98	60 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.29	U	2.25	2.255		ug/Kg	☼	100	60 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.29	U	2.25	2.183	J	ug/Kg	☼	97	60 - 140
6:2 FTS	2.29	U	2.13	2.562		ug/Kg	☼	120	50 - 150
8:2 FTS	2.29	U	2.15	2.835		ug/Kg	☼	132	60 - 140

	MS	MS	
Isotope Dilution	%Recovery	Qualifier	Limits
18O2 PFHxS	83		50 - 150
13C4 PFHpA	87		50 - 150
13C4 PFOA	86		50 - 150
13C4 PFOS	85		50 - 150
13C5 PFNA	89		50 - 150
13C4 PFBA	71		50 - 150
13C2 PFHxA	85		50 - 150
13C2 PFDA	93		50 - 150
13C2 PFUnA	101		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

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

Lab Sample ID: 460-268915-A-1-B MS

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 185793

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2 PFDaA	97		50 - 150
13C8 FOSA	84		50 - 150
13C5 PFPeA	76		50 - 150
13C2 PFTeDA	79		50 - 150
d3-NMeFOSAA	126		50 - 150
d5-NEtFOSAA	127		50 - 150
M2-6:2 FTS	88		50 - 150
M2-8:2 FTS	85		50 - 150
13C3 PFBS	79		50 - 150

Lab Sample ID: 460-268915-A-1-C MSD

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 185793

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorobutanoic acid (PFBA)	0.57	U	2.29	2.183		ug/Kg	☼	95	60 - 140	2	30
Perfluoropentanoic acid (PFPeA)	0.23	U	2.29	2.404		ug/Kg	☼	105	60 - 140	3	30
Perfluorohexanoic acid (PFHxA)	0.23	U	2.29	2.256		ug/Kg	☼	98	60 - 140	9	30
Perfluoroheptanoic acid (PFHpA)	0.23	U	2.29	2.183		ug/Kg	☼	95	60 - 140	2	30
Perfluorooctanoic acid (PFOA)	0.23	U	2.29	2.194		ug/Kg	☼	96	60 - 140	1	30
Perfluorononanoic acid (PFNA)	0.23	U	2.29	2.214		ug/Kg	☼	97	60 - 140	1	30
Perfluorodecanoic acid (PFDA)	0.23	U	2.29	2.317		ug/Kg	☼	101	60 - 140	2	30
Perfluoroundecanoic acid (PFUnA)	0.23	U	2.29	2.164		ug/Kg	☼	95	60 - 140	1	30
Perfluorododecanoic acid (PFDoA)	0.23	U	2.29	2.270		ug/Kg	☼	99	60 - 140	9	30
Perfluorotridecanoic acid (PFTriA)	0.23	U	2.29	2.283		ug/Kg	☼	100	60 - 140	19	30
Perfluorotetradecanoic acid (PFTeA)	0.23	U	2.29	1.937		ug/Kg	☼	85	60 - 140	2	30
Perfluorobutanesulfonic acid (PFBS)	0.23	U	2.02	1.913		ug/Kg	☼	95	60 - 140	2	30
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	2.08	1.904		ug/Kg	☼	91	60 - 140	1	30
Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	2.18	2.113		ug/Kg	☼	97	60 - 140	2	30
Perfluorooctanesulfonic acid (PFOS)	0.23	U	2.13	2.015		ug/Kg	☼	95	60 - 140	0	30
Perfluorodecanesulfonic acid (PFDS)	0.23	U	2.21	2.052		ug/Kg	☼	93	60 - 140	1	30
Perfluorooctanesulfonamide (FOSA)	0.23	U	2.29	2.261		ug/Kg	☼	99	60 - 140	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.29	U	2.29	2.235	J	ug/Kg	☼	98	60 - 140	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.29	U	2.29	2.218	J	ug/Kg	☼	97	60 - 140	2	30
6:2 FTS	2.29	U	2.17	2.466		ug/Kg	☼	114	50 - 150	4	30
8:2 FTS	2.29	U	2.19	2.706		ug/Kg	☼	123	60 - 140	5	30

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
18O2 PFHxS	85		50 - 150
13C4 PFHpA	84		50 - 150

Eurofins Edison

QC Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

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

Lab Sample ID: 460-268915-A-1-C MSD

Matrix: Solid

Analysis Batch: 185848

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 185793

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C4 PFOA	87		50 - 150
13C4 PFOS	86		50 - 150
13C5 PFNA	89		50 - 150
13C4 PFBA	69		50 - 150
13C2 PFHxA	81		50 - 150
13C2 PFDA	88		50 - 150
13C2 PFUnA	98		50 - 150
13C2 PFDoA	94		50 - 150
13C8 FOSA	86		50 - 150
13C5 PFPeA	74		50 - 150
13C2 PFTeDA	94		50 - 150
d3-NMeFOSAA	127		50 - 150
d5-NEtFOSAA	124		50 - 150
M2-6:2 FTS	88		50 - 150
M2-8:2 FTS	87		50 - 150
13C3 PFBS	80		50 - 150

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Qualifiers

LCMS

Qualifier	Qualifier Description
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 9

Job ID: 460-269226-1

LCMS

Prep Batch: 185793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-269226-1	BCS-09-20_(10-10.5)P	Total/NA	Solid	SHAKE	
460-269226-2	BCS-09-21_(10-10.5)P	Total/NA	Solid	SHAKE	
460-269226-3	BCS-09-22_(10-10.5)P	Total/NA	Solid	SHAKE	
460-269226-4	BCS-09-23_(10-10.5)P	Total/NA	Solid	SHAKE	
MB 200-185793/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-185793/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-268915-A-1-B MS	Matrix Spike	Total/NA	Solid	SHAKE	
460-268915-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	SHAKE	

Analysis Batch: 185848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-269226-1	BCS-09-20_(10-10.5)P	Total/NA	Solid	537 (modified)	185793
460-269226-2	BCS-09-21_(10-10.5)P	Total/NA	Solid	537 (modified)	185793
460-269226-3	BCS-09-22_(10-10.5)P	Total/NA	Solid	537 (modified)	185793
460-269226-4	BCS-09-23_(10-10.5)P	Total/NA	Solid	537 (modified)	185793
MB 200-185793/1-A	Method Blank	Total/NA	Solid	537 (modified)	185793
LCS 200-185793/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	185793
460-268915-A-1-B MS	Matrix Spike	Total/NA	Solid	537 (modified)	185793
460-268915-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	537 (modified)	185793

General Chemistry

Analysis Batch: 185746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-269226-1	BCS-09-20_(10-10.5)P	Total/NA	Solid	Moisture	
460-269226-2	BCS-09-21_(10-10.5)P	Total/NA	Solid	Moisture	
460-269226-3	BCS-09-22_(10-10.5)P	Total/NA	Solid	Moisture	
460-269226-4	BCS-09-23_(10-10.5)P	Total/NA	Solid	Moisture	
460-269226-4 DU	BCS-09-23_(10-10.5)P	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-20_(10-10.5)P

Date Collected: 11/09/22 13:05

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	185746	RWM	EET BUR	11/14/22 16:16

Client Sample ID: BCS-09-20_(10-10.5)P

Date Collected: 11/09/22 13:05

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-1

Matrix: Solid

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			185793	KFW	EET BUR	11/15/22 15:30
Total/NA	Analysis	537 (modified)		1	185848	BWC	EET BUR	11/16/22 21:51

Client Sample ID: BCS-09-21_(10-10.5)P

Date Collected: 11/09/22 13:15

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	185746	RWM	EET BUR	11/14/22 16:16

Client Sample ID: BCS-09-21_(10-10.5)P

Date Collected: 11/09/22 13:15

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-2

Matrix: Solid

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			185793	KFW	EET BUR	11/15/22 15:30
Total/NA	Analysis	537 (modified)		1	185848	BWC	EET BUR	11/16/22 22:07

Client Sample ID: BCS-09-22_(10-10.5)P

Date Collected: 11/09/22 13:25

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	185746	RWM	EET BUR	11/14/22 16:16

Client Sample ID: BCS-09-22_(10-10.5)P

Date Collected: 11/09/22 13:25

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-3

Matrix: Solid

Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			185793	KFW	EET BUR	11/15/22 15:30
Total/NA	Analysis	537 (modified)		1	185848	BWC	EET BUR	11/16/22 22:15

Client Sample ID: BCS-09-23_(10-10.5)P

Date Collected: 11/09/22 13:35

Date Received: 11/09/22 19:00

Lab Sample ID: 460-269226-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	185746	RWM	EET BUR	11/14/22 16:16

Eurofins Edison

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: Inwood - Lot 9

Job ID: 460-269226-1

Client Sample ID: BCS-09-23_(10-10.5)P

Lab Sample ID: 460-269226-4

Date Collected: 11/09/22 13:35

Matrix: Solid

Date Received: 11/09/22 19:00

Percent Solids: 63.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			185793	KFW	EET BUR	11/15/22 15:30
Total/NA	Analysis	537 (modified)		1	185848	BWC	EET BUR	11/16/22 22:23

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 9

Job ID: 460-269226-1

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	12-18-22
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	12-14-22
Wisconsin	State	399133350	08-31-23

Method PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 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 #	PFHxS #	C4PFHA #	M262FTS #	PFOA #
BCS-09-20_(10-10.5))P	460-269226-1	62	75	75	81	78	85	80	88
BCS-09-21_(10-10.5))P	460-269226-2	71	72	71	77	72	77	78	85
BCS-09-22_(10-10.5))P	460-269226-3	74	73	69	83	73	79	75	83
BCS-09-23_(10-10.5))P	460-269226-4	82	80	77	82	78	83	98	84
	MB 200-185793/1-A	65	70	75	79	78	77	83	84
	LCS 200-185793/2-A	68	76	77	81	78	79	88	83
	460-268915-A-1-B MS	71	76	79	85	83	87	88	86
	460-268915-A-1-C MSD	69	74	80	81	85	84	88	87

	<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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	M282FTS #	PFDA #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
BCS-09-20_(10-10.5))P	460-269226-1	82	91	92	98	84	122	108	132
BCS-09-21_(10-10.5))P	460-269226-2	77	82	79	90	78	115	93	120
BCS-09-22_(10-10.5))P	460-269226-3	72	85	72	80	68	113	89	114
BCS-09-23_(10-10.5))P	460-269226-4	75	84	113	90	71	123	104	136
	MB 200-185793/1-A	81	79	82	89	81	117	93	118
	LCS 200-185793/2-A	84	86	86	86	84	123	89	122
	460-268915-A-1-B MS	85	89	85	93	84	126	101	127
	460-268915-A-1-C MSD	86	89	87	88	86	127	98	124

	<u>QC LIMITS</u>
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
M282FTS = M2-8:2 FTS	50-150
PFDA = 13C2 PFDA	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.: 460-269226-1
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-09-20_(10-10.5))P	460-269226-1	112	105
BCS-09-21_(10-10.5))P	460-269226-2	99	99
BCS-09-22_(10-10.5))P	460-269226-3	90	91
BCS-09-23_(10-10.5))P	460-269226-4	95	76
	MB 200-185793/1-A	84	77
	LCS 200-185793/2-A	81	75
	460-268915-A-1-B MS	97	79
	460-268915-A-1-C MSD	94	94

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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D03.d
 Lab ID: LCS 200-185793/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	1.885	94	60-140	
Perfluoropentanoic acid (PFPeA)	2.00	1.873	94	60-140	
Perfluorohexanoic acid (PFHxA)	2.00	1.773	89	60-140	
Perfluoroheptanoic acid (PFHpA)	2.00	1.842	92	60-140	
Perfluorooctanoic acid (PFOA)	2.00	1.901	95	60-140	
Perfluorononanoic acid (PFNA)	2.00	1.837	92	60-140	
Perfluorodecanoic acid (PFDA)	2.00	1.918	96	60-140	
Perfluoroundecanoic acid (PFUnA)	2.00	1.979	99	60-140	
Perfluorododecanoic acid (PFDoA)	2.00	1.882	94	60-140	
Perfluorotridecanoic acid (PFTriA)	2.00	1.787	89	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.00	1.607	80	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.691	96	60-140	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.703	94	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	1.90	1.776	93	60-140	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.682	91	60-140	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.675	87	60-140	
Perfluorooctanesulfonamide (FOSA)	2.00	1.896	95	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.880 J	94	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.821 J	91	60-140	
6:2 FTS	1.90	2.085	110	50-150	
8:2 FTS	1.92	2.342	122	60-140	
18O2 PFHxS	2.37	1.854	78	50-150	
13C4 PFHpA	2.50	1.975	79	50-150	
13C4 PFOA	2.50	2.073	83	50-150	
13C4 PFOS	2.39	2.010	84	50-150	
13C5 PFNA	2.50	2.147	86	50-150	
13C4 PFBA	2.50	1.703	68	50-150	
13C2 PFHxA	2.50	2.013	81	50-150	
13C2 PFDA	2.50	2.154	86	50-150	
13C2 PFUnA	2.50	2.224	89	50-150	
13C2 PFDoA	2.50	2.033	81	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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D03.d
 Lab ID: LCS 200-185793/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C8 FOSA	2.50	2.103	84	50-150	
13C5 PFPeA	2.50	1.889	76	50-150	
13C2 PFTeDA	2.50	1.887	75	50-150	
d3-NMeFOSAA	2.50	3.073	123	50-150	
d5-NEtFOSAA	2.50	3.053	122	50-150	
M2-6:2 FTS	2.38	2.079	88	50-150	
M2-8:2 FTS	2.40	2.049	86	50-150	
13C3 PFBS	2.33	1.799	77	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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D07.d
 Lab ID: 460-268915-A-1-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)	2.25	0.57 U	2.224	99	60-140	
Perfluoropentanoic acid (PFPeA)	2.25	0.23 U	2.330	104	60-140	
Perfluorohexanoic acid (PFHxA)	2.25	0.23 U	2.063	92	60-140	
Perfluoroheptanoic acid (PFHpA)	2.25	0.23 U	2.149	96	60-140	
Perfluorooctanoic acid (PFOA)	2.25	0.23 U	2.181	97	60-140	
Perfluorononanoic acid (PFNA)	2.25	0.23 U	2.243	100	60-140	
Perfluorodecanoic acid (PFDA)	2.25	0.23 U	2.261	101	60-140	
Perfluoroundecanoic acid (PFUnA)	2.25	0.23 U	2.183	97	60-140	
Perfluorododecanoic acid (PFDoA)	2.25	0.23 U	2.077	92	60-140	
Perfluorotridecanoic acid (PFTrIA)	2.25	0.23 U	1.884	84	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.25	0.23 U	1.968	88	60-140	
Perfluorobutanesulfonic acid (PFBS)	1.98	0.23 U	1.873	94	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.04	0.23 U	1.921	94	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.14	0.23 U	2.069	97	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.08	0.23 U	2.023	97	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.16	0.23 U	2.040	94	60-140	
Perfluorooctanesulfonamide (FOSA)	2.25	0.23 U	2.210	98	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.25	2.29 U	2.255	100	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.25	2.29 U	2.183 J	97	60-140	
6:2 FTS	2.13	2.29 U	2.562	120	50-150	
8:2 FTS	2.15	2.29 U	2.835	132	60-140	
18O2 PFHxS	2.65	2.08	2.214	83	50-150	
13C4 PFHpA	2.81	2.42	2.454	87	50-150	
13C4 PFOA	2.81	2.40	2.400	86	50-150	
13C4 PFOS	2.68	2.16	2.294	85	50-150	
13C5 PFNA	2.81	2.35	2.494	89	50-150	
13C4 PFBA	2.81	1.77	2.006	71	50-150	
13C2 PFHxA	2.81	2.36	2.389	85	50-150	
13C2 PFDA	2.81	2.58	2.616	93	50-150	
13C2 PFUnA	2.81	2.57	2.837	101	50-150	
13C2 PFDoA	2.81	2.54	2.712	97	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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D07.d
 Lab ID: 460-268915-A-1-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C8 FOSA	2.81	2.29	2.370	84	50-150	
13C5 PFPeA	2.81	2.09	2.128	76	50-150	
13C2 PFTeDA	2.81	2.40	2.214	79	50-150	
d3-NMeFOSAA	2.81	3.31	3.528	126	50-150	
d5-NEtFOSAA	2.81	3.25	3.567	127	50-150	
M2-6:2 FTS	2.67	2.21	2.346	88	50-150	
M2-8:2 FTS	2.69	2.21	2.289	85	50-150	
13C3 PFBS	2.61	1.91	2.068	79	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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D08.d
 Lab ID: 460-268915-A-1-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	2.29	2.183	95	2	30	60-140	
Perfluoropentanoic acid (PFPeA)	2.29	2.404	105	3	30	60-140	
Perfluorohexanoic acid (PFHxA)	2.29	2.256	98	9	30	60-140	
Perfluoroheptanoic acid (PFHpA)	2.29	2.183	95	2	30	60-140	
Perfluorooctanoic acid (PFOA)	2.29	2.194	96	1	30	60-140	
Perfluorononanoic acid (PFNA)	2.29	2.214	97	1	30	60-140	
Perfluorodecanoic acid (PFDA)	2.29	2.317	101	2	30	60-140	
Perfluoroundecanoic acid (PFUnA)	2.29	2.164	95	1	30	60-140	
Perfluorododecanoic acid (PFDoA)	2.29	2.270	99	9	30	60-140	
Perfluorotridecanoic acid (PFTrIA)	2.29	2.283	100	19	30	60-140	
Perfluorotetradecanoic acid (PFTeA)	2.29	1.937	85	2	30	60-140	
Perfluorobutanesulfonic acid (PFBS)	2.02	1.913	95	2	30	60-140	
Perfluorohexanesulfonic acid (PFHxS)	2.08	1.904	91	1	30	60-140	
Perfluoroheptanesulfonic acid (PFHpS)	2.18	2.113	97	2	30	60-140	
Perfluorooctanesulfonic acid (PFOS)	2.13	2.015	95	0	30	60-140	
Perfluorodecanesulfonic acid (PFDS)	2.21	2.052	93	1	30	60-140	
Perfluorooctanesulfonamide (FOSA)	2.29	2.261	99	2	30	60-140	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.29	2.235 J	98	1	30	60-140	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.29	2.218 J	97	2	30	60-140	
6:2 FTS	2.17	2.466	114	4	30	50-150	
8:2 FTS	2.19	2.706	123	5	30	60-140	
18O2 PFHxS	2.71	2.301	85			50-150	
13C4 PFHpA	2.86	2.400	84			50-150	
13C4 PFOA	2.86	2.483	87			50-150	
13C4 PFOS	2.74	2.343	86			50-150	
13C5 PFNA	2.86	2.539	89			50-150	
13C4 PFBA	2.86	1.961	69			50-150	
13C2 PFHxA	2.86	2.317	81			50-150	
13C2 PFDA	2.86	2.507	88			50-150	
13C2 PFUnA	2.86	2.805	98			50-150	
13C2 PFDoA	2.86	2.684	94			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.: 460-269226-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: PA221116D08.d
 Lab ID: 460-268915-A-1-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C8 FOSA	2.86	2.469	86			50-150	
13C5 PFPeA	2.86	2.116	74			50-150	
13C2 PFTeDA	2.86	2.699	94			50-150	
d3-NMeFOSAA	2.86	3.642	127			50-150	
d5-NEtFOSAA	2.86	3.552	124			50-150	
M2-6:2 FTS	2.72	2.395	88			50-150	
M2-8:2 FTS	2.74	2.381	87			50-150	
13C3 PFBS	2.66	2.143	80			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.: 460-269226-1
 SDG No.: _____
 Lab File ID: PA221116D02.d Lab Sample ID: MB 200-185793/1-A
 Matrix: Solid Date Extracted: 11/15/2022 15:30
 Instrument ID: LC812 Date Analyzed: 11/16/2022 20:12
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-185793/2-A	PA221116D03 .d	11/16/2022 20:20
	460-268915-A-1-B MS	PA221116D07 .d	11/16/2022 20:53
	460-268915-A-1-C MSD	PA221116D08 .d	11/16/2022 21:01
BCS-09-20_(10-10.5)P	460-269226-1	PA221116D14 .d	11/16/2022 21:51
BCS-09-21_(10-10.5)P	460-269226-2	PA221116D16 .d	11/16/2022 22:07
BCS-09-22_(10-10.5)P	460-269226-3	PA221116D17 .d	11/16/2022 22:15
BCS-09-23_(10-10.5)P	460-269226-4	PA221116D18 .d	11/16/2022 22:23

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Sample No.: ICIS 200-183540/8 Date Analyzed: 09/14/2022 10:58
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA220914ICAL08.d Heated Purge: (Y/N) N
 Calibration ID: 48957

	13PFOA					
	AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT	1426342	3.49				
UPPER LIMIT	2139513	3.69				
LOWER LIMIT	713171	3.29				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICB 200-183540/11		1850072	3.48			
ICV 200-183540/12		1648595	3.49			
CCB 200-185818/4		2315621*	3.43			
CCVLIS 200-185818/5		2307338*	3.44			

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.: 460-269226-1
 SDG No.: _____
 Sample No.: CCVLIS 200-185818/5 Date Analyzed: 11/16/2022 09:34
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA221116A05.d Heated Purge: (Y/N) N
 Calibration ID: 48957

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		2307338	3.44				
UPPER LIMIT		3461007	3.64				
LOWER LIMIT		1153669	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-185848/1		2350263	3.45				
MB 200-185793/1-A		2548956	3.45				
LCS 200-185793/2-A		2380692	3.45				
460-268915-A-1-B MS		2343789	3.45				
460-268915-A-1-C MSD		2350024	3.45				
460-269226-1	BCS-09-20_(10-10.5)P	2306319	3.45				
CCV 200-185848/15		2615467	3.45				
460-269226-2	BCS-09-21_(10-10.5)P	2395909	3.45				
460-269226-3	BCS-09-22_(10-10.5)P	2310349	3.45				
460-269226-4	BCS-09-23_(10-10.5)P	2340597	3.45				
CCV 200-185848/26		2409728	3.46				

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 I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: BCS-09-20_(10-10.5)P Lab Sample ID: 460-269226-1
 Matrix: Solid Lab File ID: PA221116D14.d
 Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:05
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.04(g) Date Analyzed: 11/16/2022 21:51
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 21.0 % Solids: 79.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.63	U	0.63	0.41
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.079	J	0.25	0.069
307-24-4	Perfluorohexanoic acid (PFHxA)	0.069	J	0.25	0.058
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	0.25	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.25	U	0.25	0.073
375-95-1	Perfluorononanoic acid (PFNA)	0.25	U	0.25	0.043
335-76-2	Perfluorodecanoic acid (PFDA)	0.25	U	0.25	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.25	U	0.25	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.25	U	0.25	0.031
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.25	U	0.25	0.031
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.25	U	0.25	0.033
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.25	U	0.25	0.041
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.25	U	0.25	0.051
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.25	U	0.25	0.029
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.25	U	0.25	0.14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.039	J	0.25	0.024
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.25	U	0.25	0.043
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.51	U	2.51	0.14
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.51	U	2.51	0.10
27619-97-2	6:2 FTS	2.51	U	2.51	0.072
39108-34-4	8:2 FTS	2.51	U	2.51	0.046

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: BCS-09-20_(10-10.5)P Lab Sample ID: 460-269226-1
 Matrix: Solid Lab File ID: PA221116D14.d
 Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:05
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.04(g) Date Analyzed: 11/16/2022 21:51
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 21.0 % Solids: 79.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	78		50-150
STL01892	13C4 PFHpA	85		50-150
STL00990	13C4 PFOA	88		50-150
STL00991	13C4 PFOS	82		50-150
STL00995	13C5 PFNA	91		50-150
STL00992	13C4 PFBA	62		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	98		50-150
STL00997	13C2 PFUnA	108		50-150
STL00998	13C2 PFDoA	112		50-150
STL01056	13C8 FOSA	84		50-150
STL01893	13C5 PFPeA	75		50-150
STL02116	13C2 PFTeDA	105		50-150
STL02118	d3-NMeFOSAA	122		50-150
STL02117	d5-NEtFOSAA	132		50-150
STL02279	M2-6:2 FTS	80		50-150
STL02280	M2-8:2 FTS	92		50-150
STL02337	13C3 PFBS	75		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
 Lims ID: 460-269226-A-1-A
 Client ID: BCS-09-20_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Nov-2022 21:51:03 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-269226-A-1-A
 Misc. Info.: 200-0053360-014 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:21 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:40:01

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	2.068	2.068	0.0	0.600	1753503	0.7792		62.3	5638	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.068	2.076	-0.008	1.000	74858	0.0527			5.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.688	1667269	0.9416		75.3	2077	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	44978	0.0315			0.8	M
D 47 13C3 PFBS										
301.90 > 80.00	2.387	2.386	0.001	0.692	1561464	0.8705		74.9	260969	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.006	3156	0.002038	Target=2.19		3.0	M
298.90 > 99.00	2.387	2.400	-0.013	1.000	1638		1.93(1.09-3.28)		0.1	
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.787	1828201	1.02		81.2	3150	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	43491	0.0274	Target=13.67		5.6	M
313.00 > 119.00	2.726	2.725	0.001	1.004	2863		15.19(6.83-20.50)		3.8	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1188440	0.9279		78.5	2583	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.088	3.088	0.0	1.000	6338	0.005421	Target=3.60		6.1	RM
399.00 > 99.00	3.099	3.088	0.011	1.004	5184		1.22(1.80-5.40)		1.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.088	0.0	0.896	1876635	1.06		84.9	4246	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.088	0.0	1.000	15022	0.008978	Target=3.76		2.1	
363.00 > 169.00	3.088	3.088	0.0	1.000	3987		3.77(1.88-5.65)		7.4	

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	3.430	3.430	0.0	0.995	208277	0.9522		80.2	242	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.430	0.0	1.000	1295	0.004053			5.3	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	2080609	1.10		88.0	5725	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2306319	1.25			4756	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.439	0.009	1.000	39253	0.0208	Target=2.73		2.2	
413.00 > 169.00	3.439	3.439	0.0	0.997	14094		2.79(1.37-4.10)		19.6	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	823316	0.9755		81.6	2090	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.764	3.764	0.0	1.000	24798	0.0296	Target=5.09		3.9	RM
499.00 > 99.00	3.607	3.764	-0.157	0.958	38287		0.65(2.55-7.64)		20.3	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2109131	1.13		90.7	6509	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.793	3.783	0.010	1.003	10133	0.005721	Target=7.76		1.6	M
463.00 > 169.00	3.764	3.783	-0.019	0.995	1210		8.37(3.88-11.63)		7.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.093	-0.012	1.184	2203908	1.22		97.5	4447	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.093	-0.012	1.000	12026	0.006343	Target=9.83		2.4	
513.00 > 169.00	4.081	4.093	-0.012	1.000	875		13.74(4.91-14.74)		2.0	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	284683	1.10		91.9	511	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	1128	0.003828			19.6	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1552219	1.05		84.3	2822	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.127	4.138	-0.011	0.994	2150	0.001714			4.2	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	388687	1.53		122	912	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.238	0.0	1.002	459	0.001596			2.3	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	7300	0.0154	Target=2.59		13.9	M
599.00 > 99.00	4.320	4.331	-0.011	1.148	2702		2.70(1.30-3.89)		3.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.354	4.365	-0.011	1.263	1990756	1.34		108	4508	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.376	-0.011	1.266	415939	1.65		132	1094	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.365	4.376	-0.011	1.000	3714	0.0122			22.0	

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

D 36 13C2 PFDaA

615.00 > 570.00	4.591	4.602	-0.011	1.332	2023218	1.40		112	8518	

37 Perfluorododecanoic acid

M

613.00 > 569.00	4.591	4.602	-0.011	1.000	5701	0.003296	Target=6.96		0.6	M

613.00 > 169.00	4.591	4.602	-0.011	1.000	770		7.40(3.48-10.43)		7.1	M

D 43 13C2 PFTeDA

715.00 > 670.00	5.012	5.032	-0.020	1.454	1622987	1.32		105	4491	

42 Perfluorotetradecanoic acid

M

713.00 > 169.00	5.012	5.032	-0.020	1.000	282	0.001396	Target=0.99		3.7	M

713.00 > 219.00	5.012	5.032	-0.020	1.000	547		0.52(0.49-1.48)		7.7	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d

Injection Date: 16-Nov-2022 21:51:03

Instrument ID: LC812

Lims ID: 460-269226-A-1-A

Lab Sample ID: 200-269226-1

Client ID: BCS-09-20_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

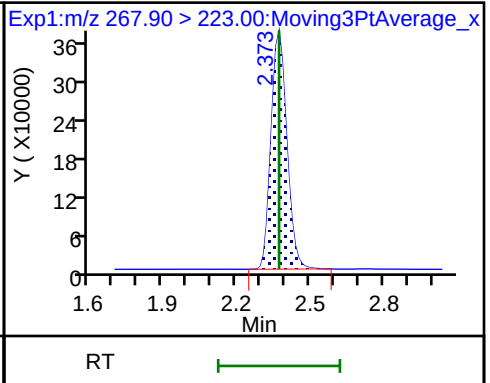
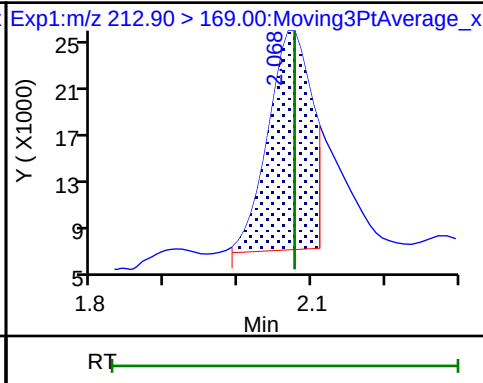
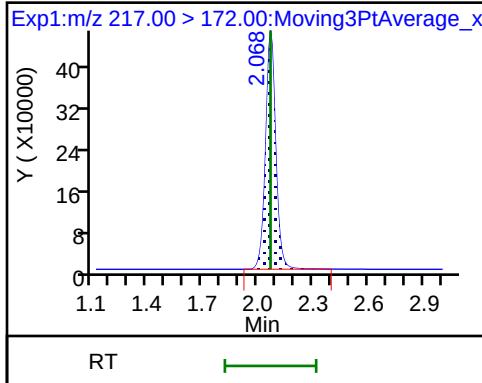
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

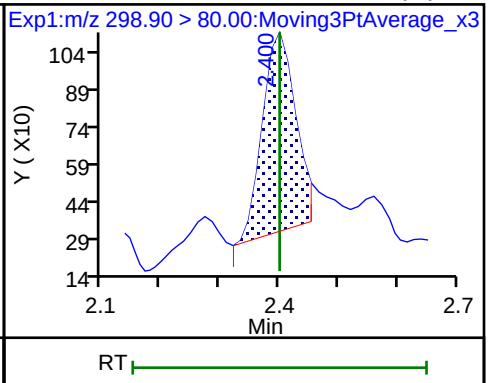
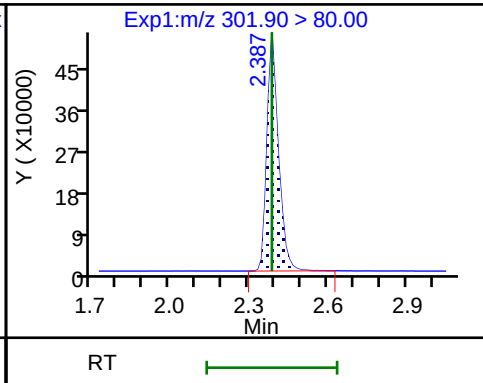
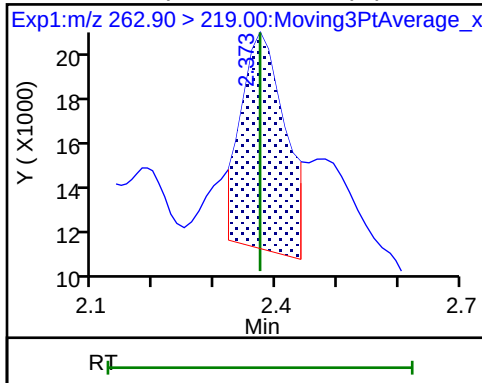
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

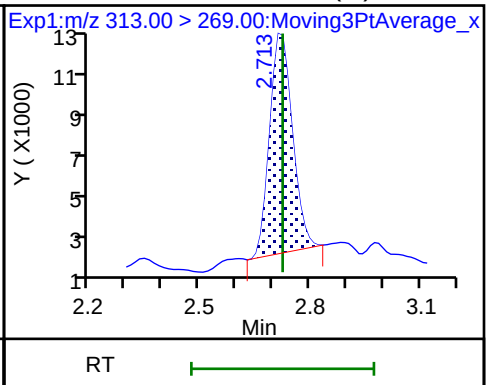
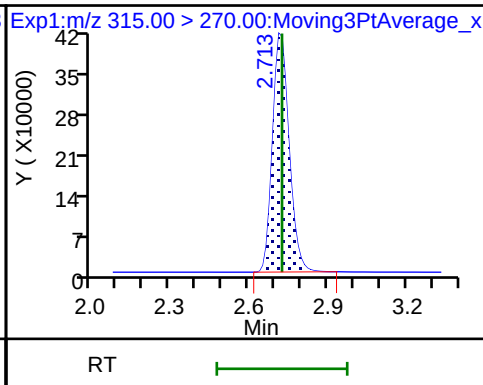
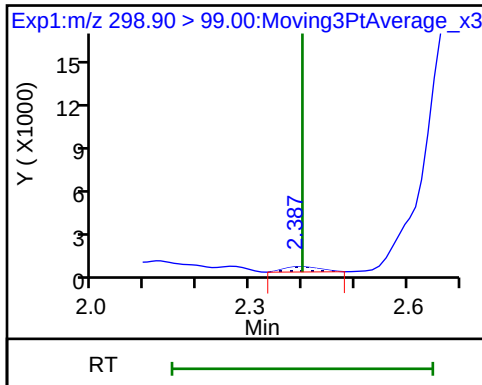
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

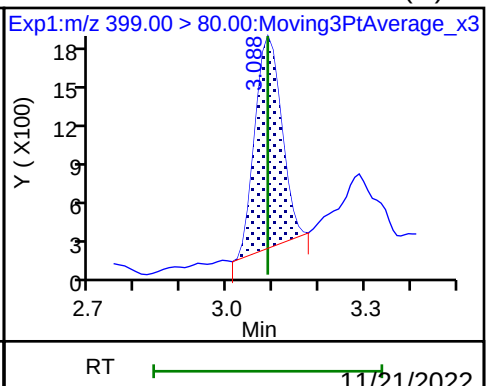
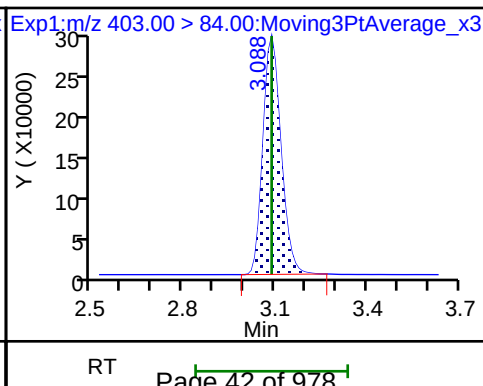
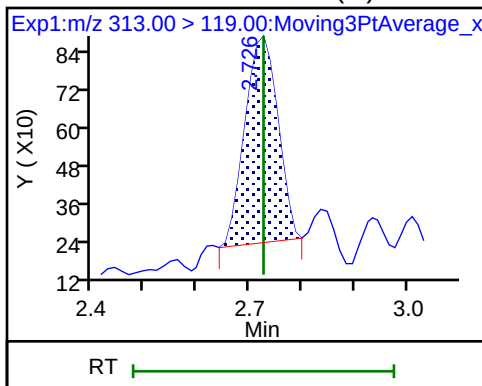
6 Perfluorohexanoic acid (M)

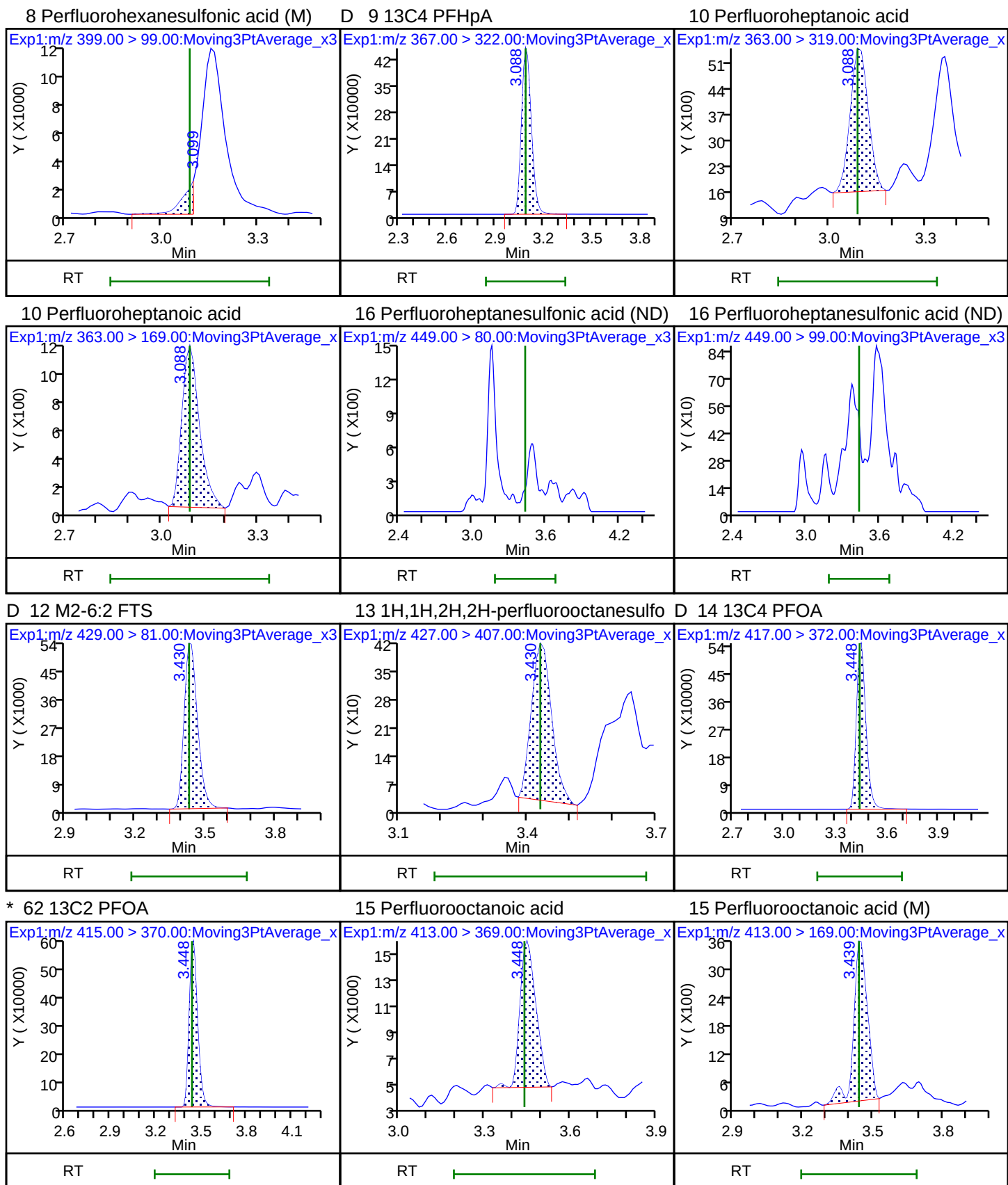


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

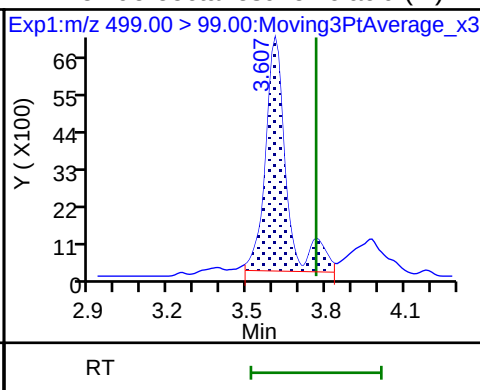
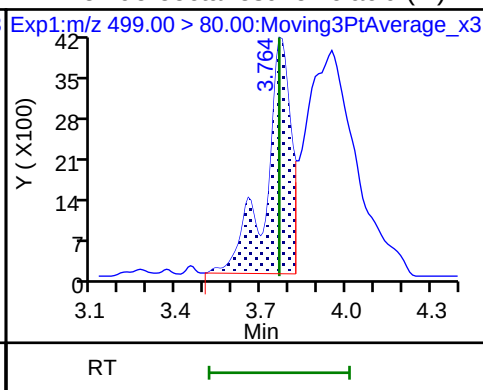
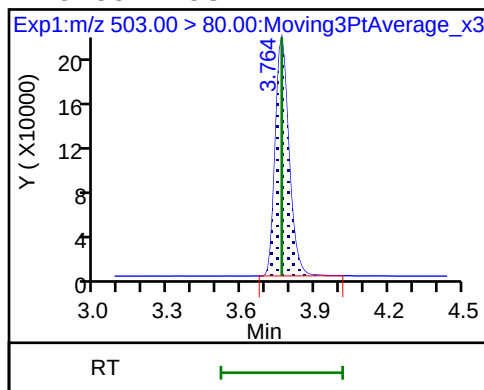




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

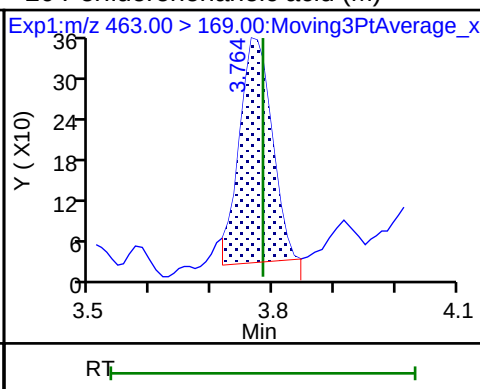
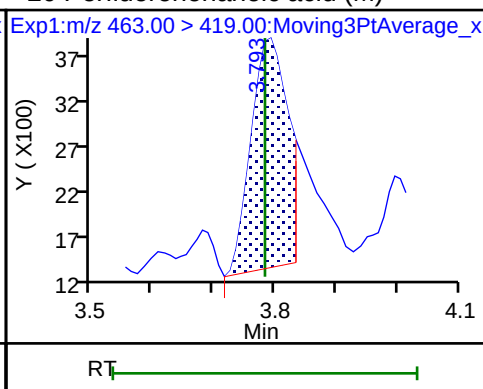
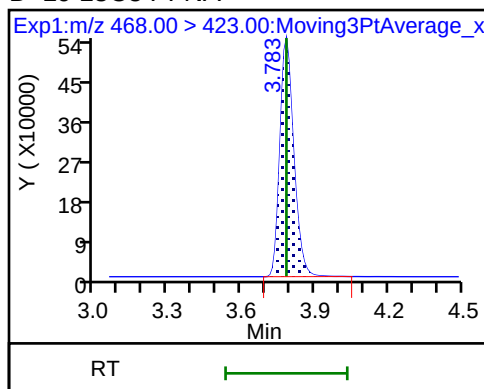
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

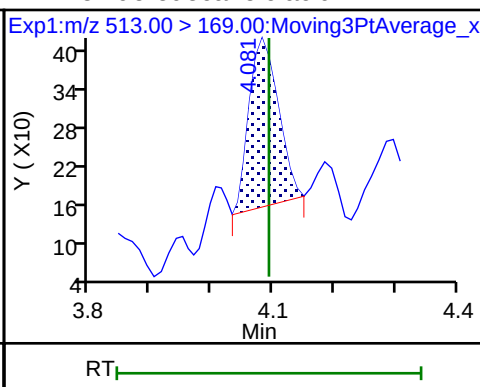
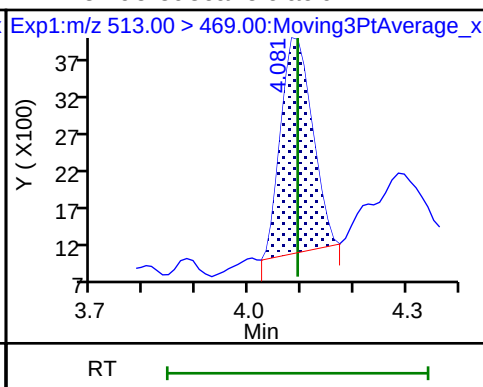
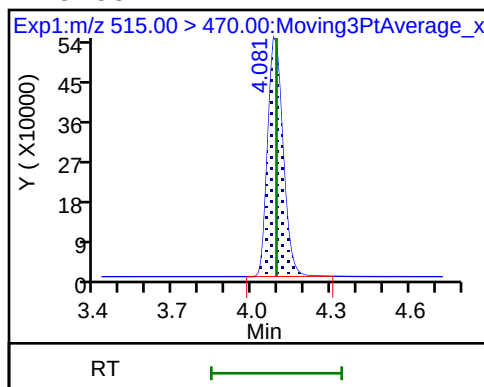
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid

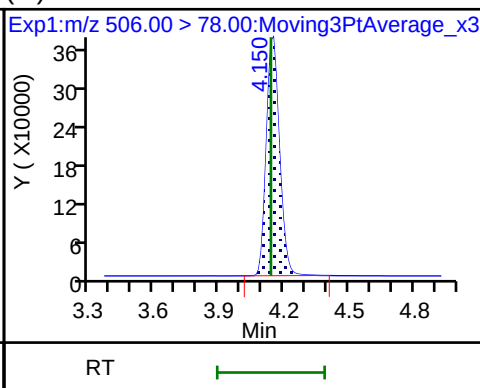
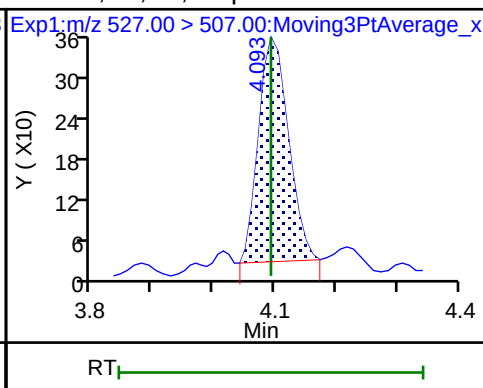
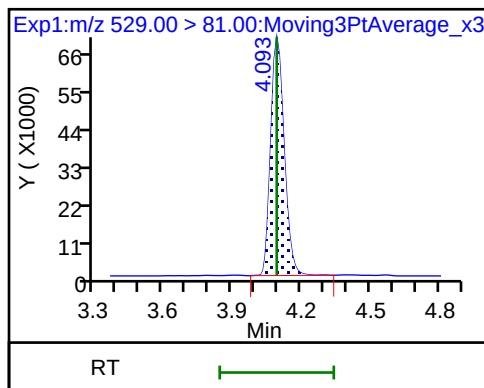
24 Perfluorodecanoic acid

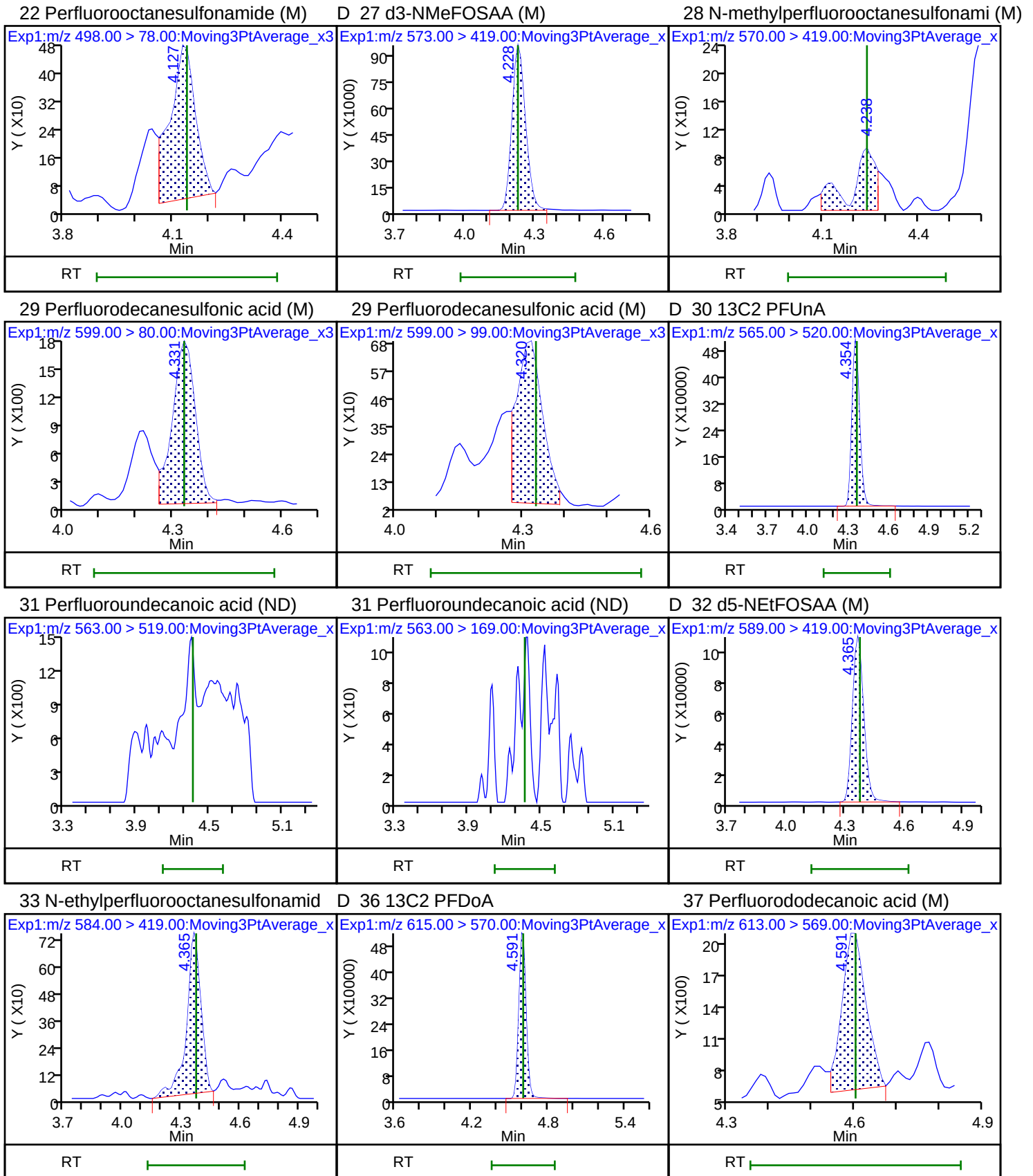


D 26 M2-8:2 FTS

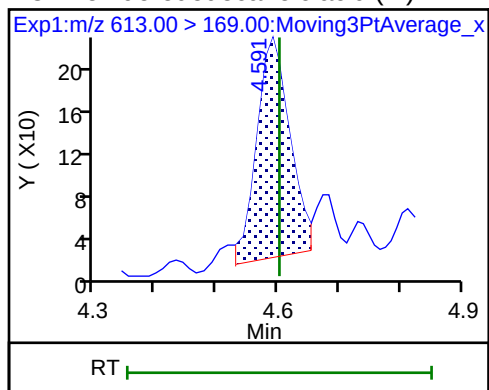
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

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

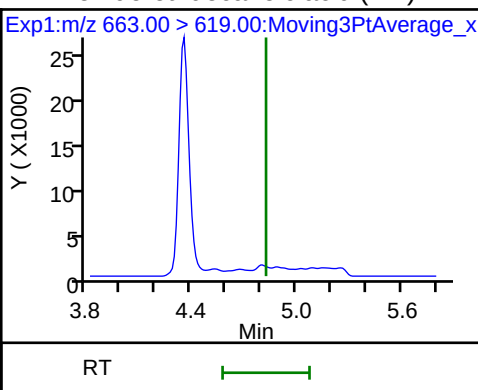




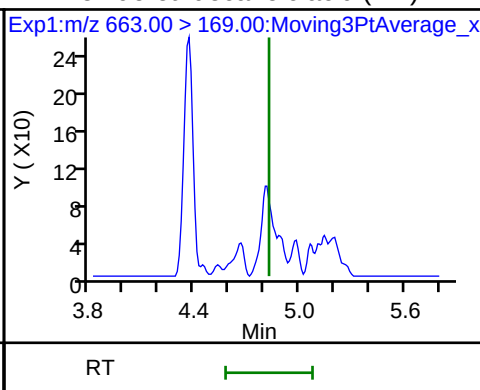
37 Perfluorododecanoic acid (M)



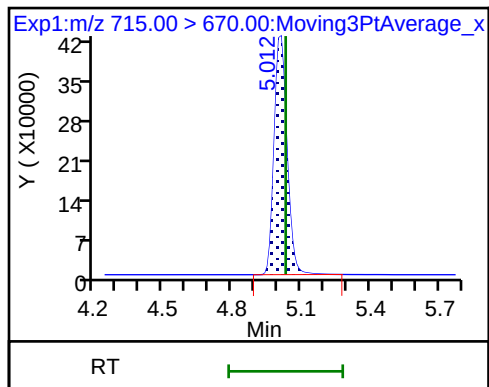
41 Perfluorotridecanoic acid (ND)



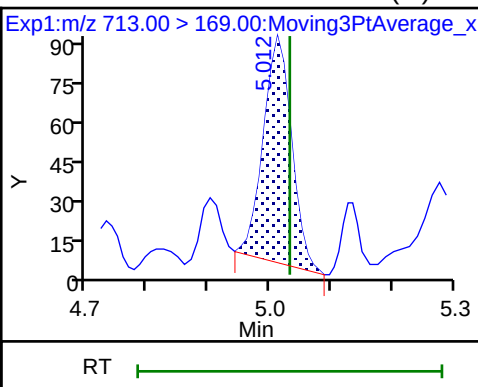
41 Perfluorotridecanoic acid (ND)



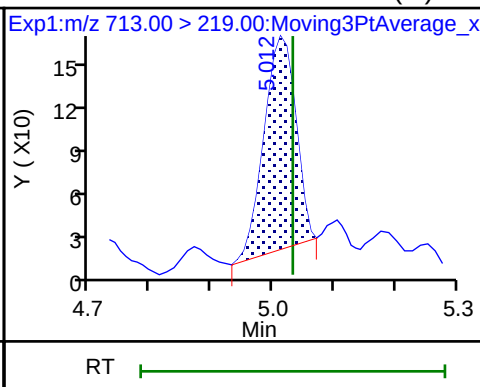
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins Burlington

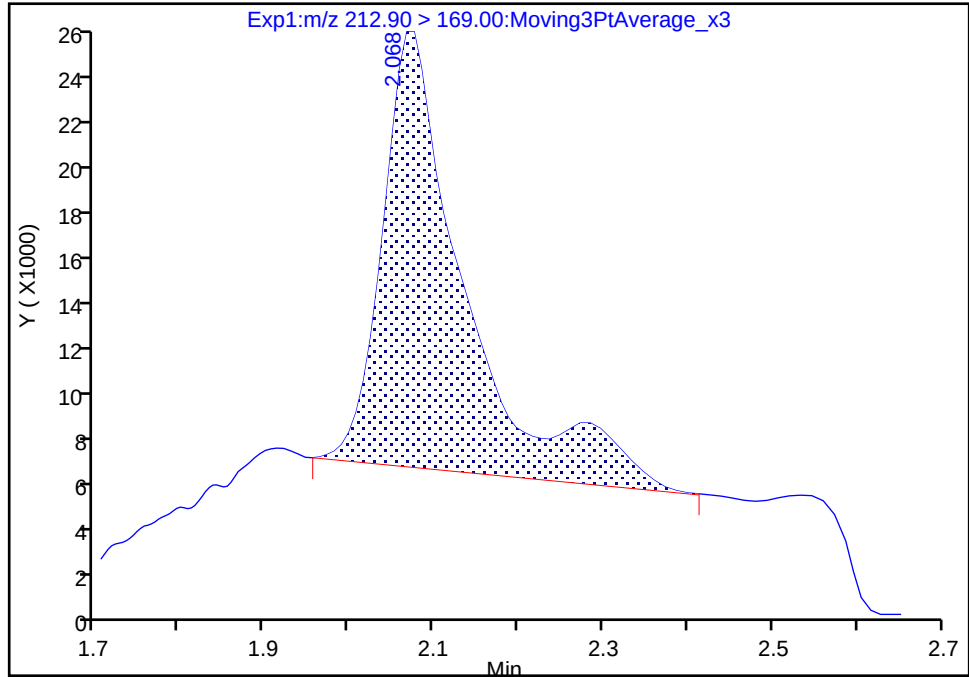
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

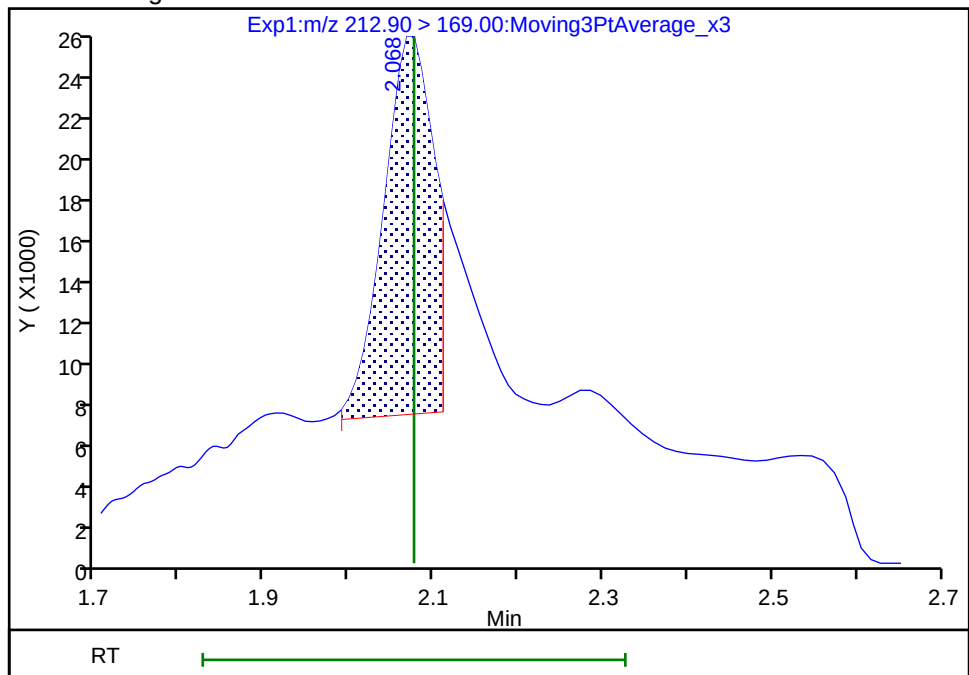
RT: 2.07
Area: 130769
Amount: 0.092074
Amount Units: ng/ml

Processing Integration Results



RT: 2.07
Area: 74858
Amount: 0.052707
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

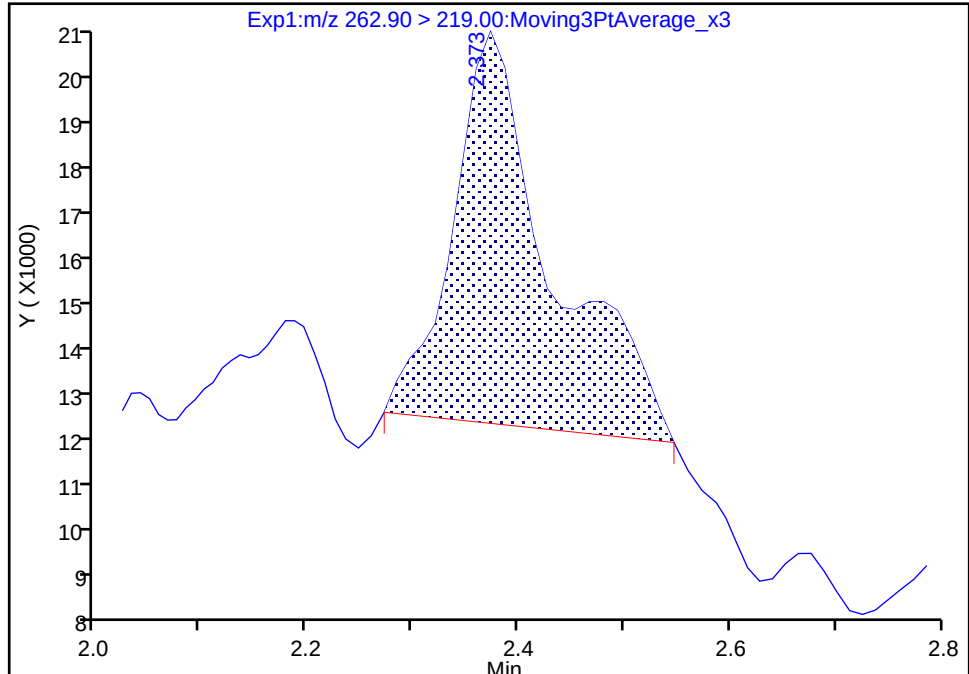
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

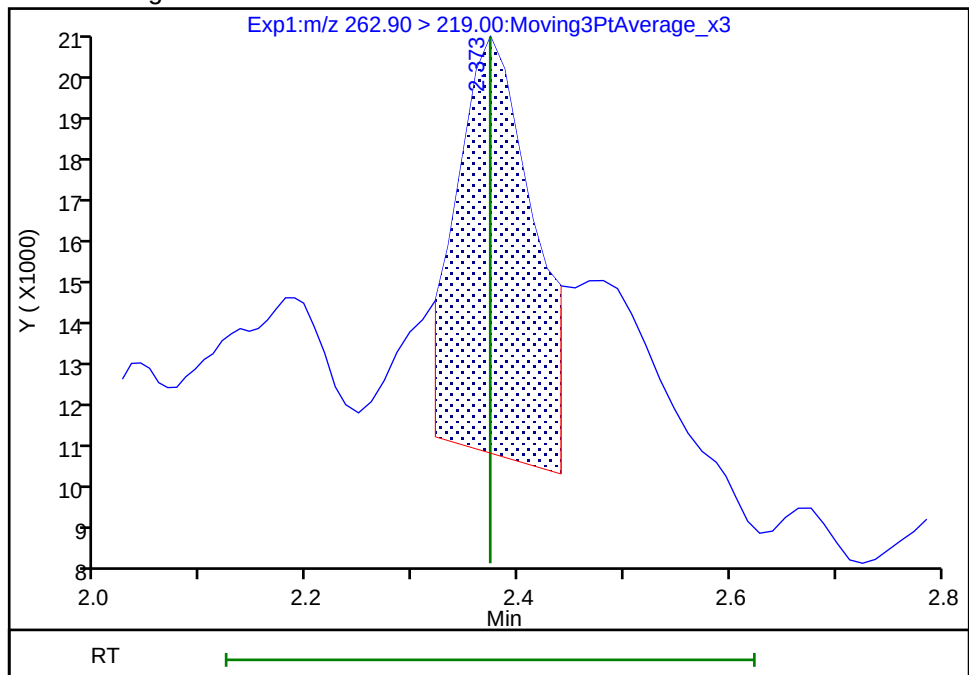
RT: 2.37
Area: 50158
Amount: 0.035149
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 44978
Amount: 0.031519
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

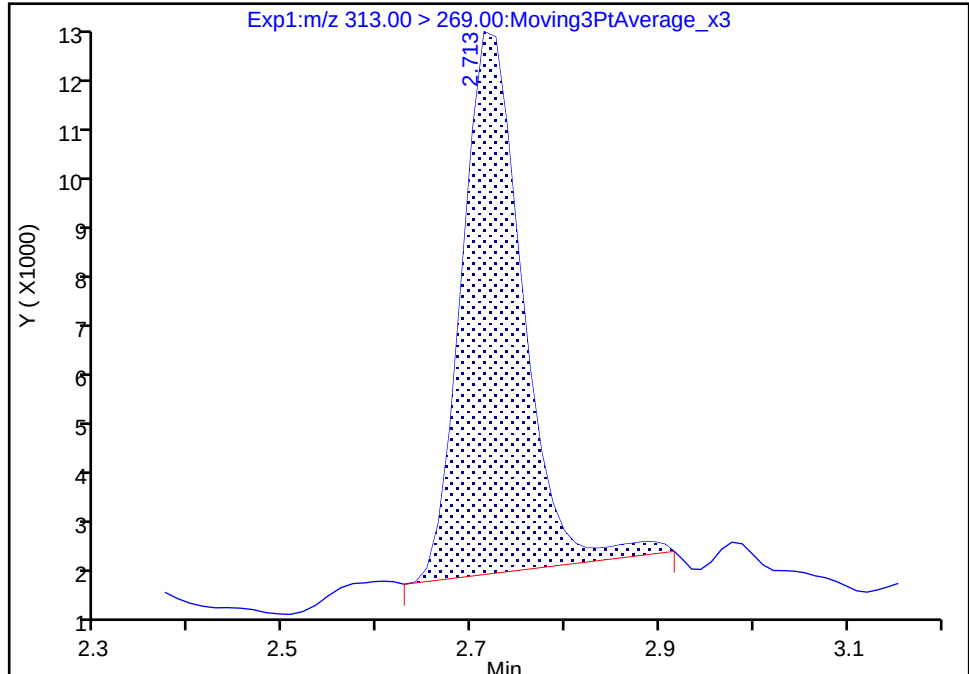
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

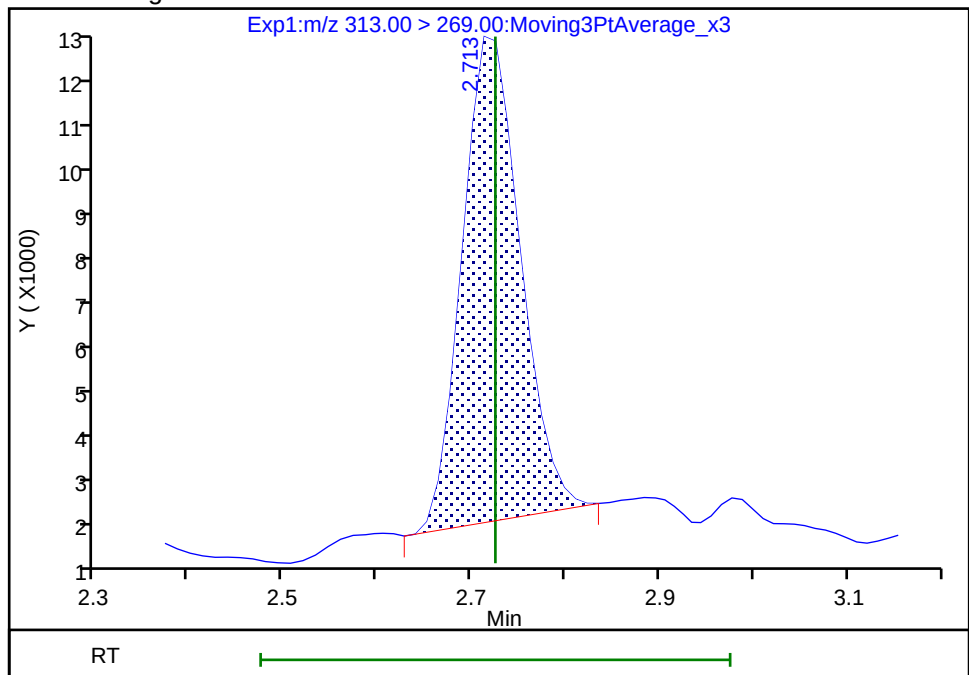
RT: 2.71
Area: 45970
Amount: 0.028951
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 43491
Amount: 0.027390
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

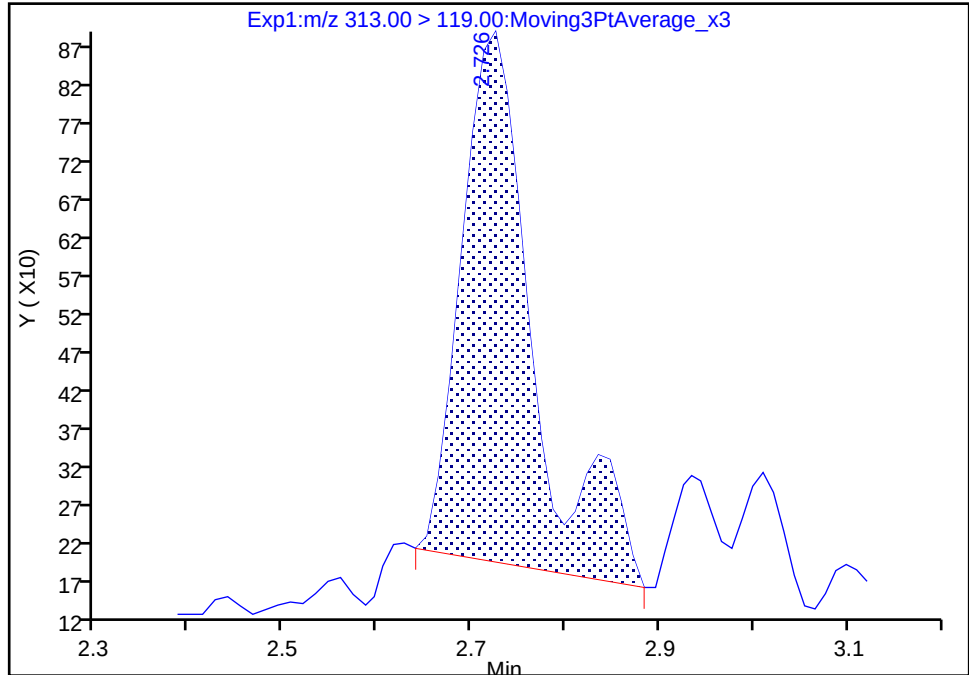
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

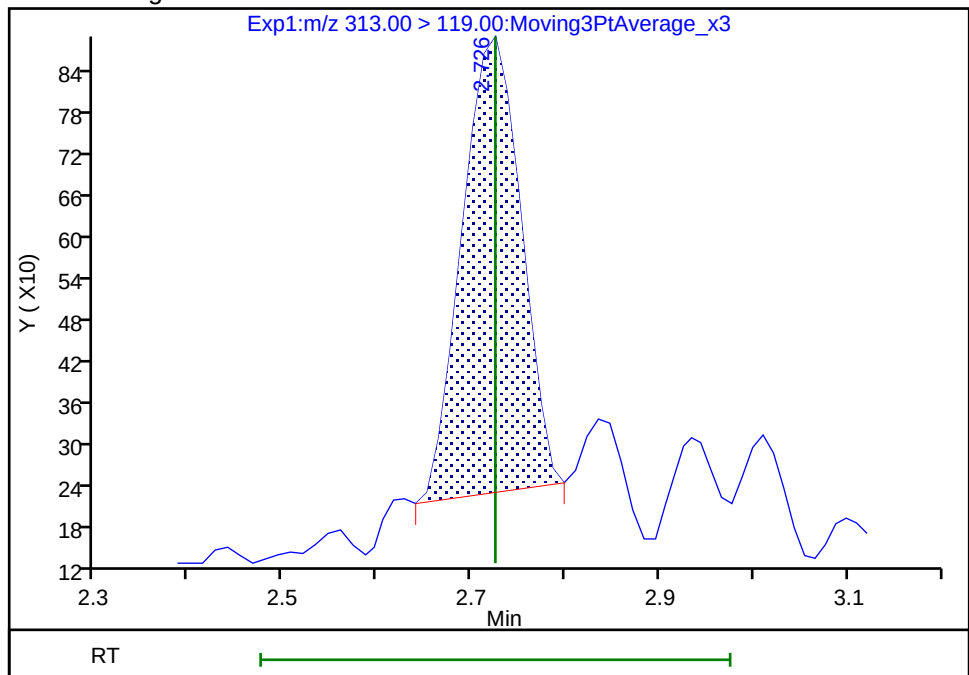
RT: 2.73
Area: 3686
Amount: 0.028951
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 2863
Amount: 0.027390
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 50 of 97811/21/2022
4:10 PM

Eurofins Burlington

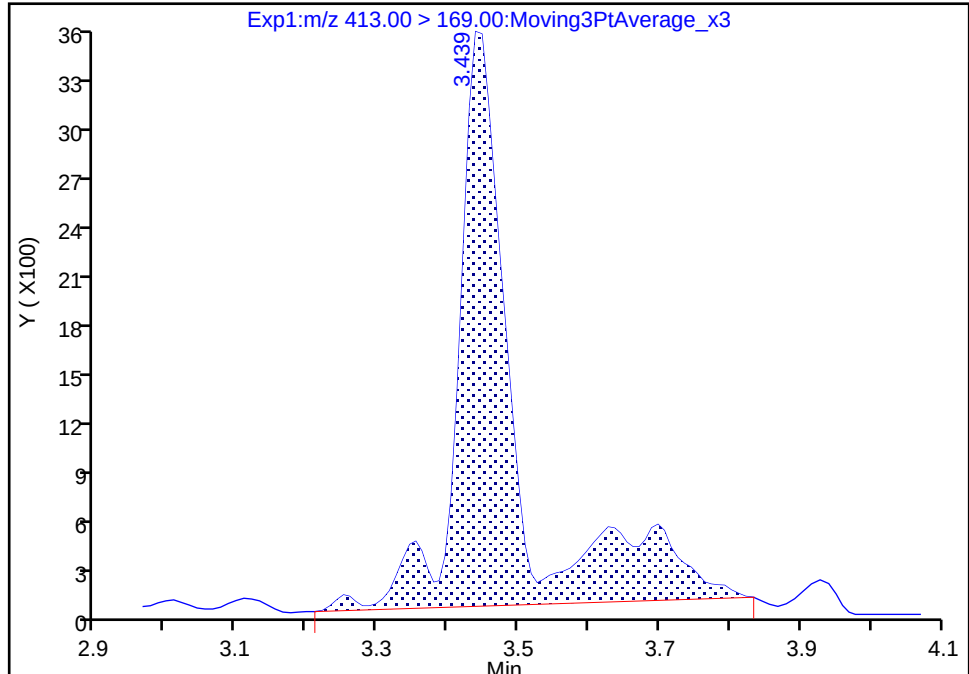
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

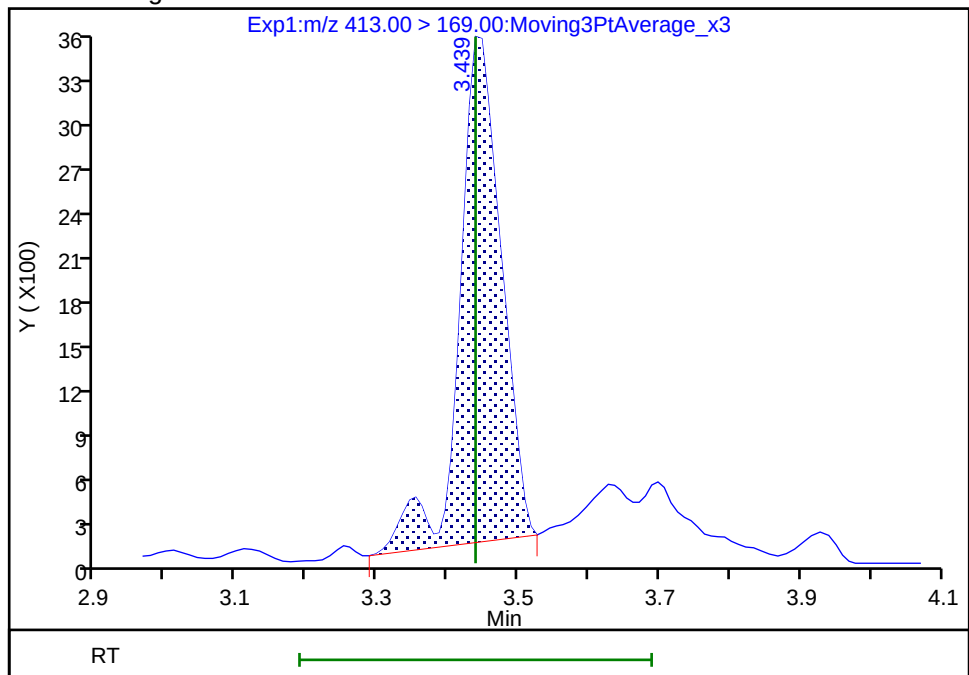
RT: 3.44
Area: 19933
Amount: 0.020835
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 14094
Amount: 0.020835
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:37:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

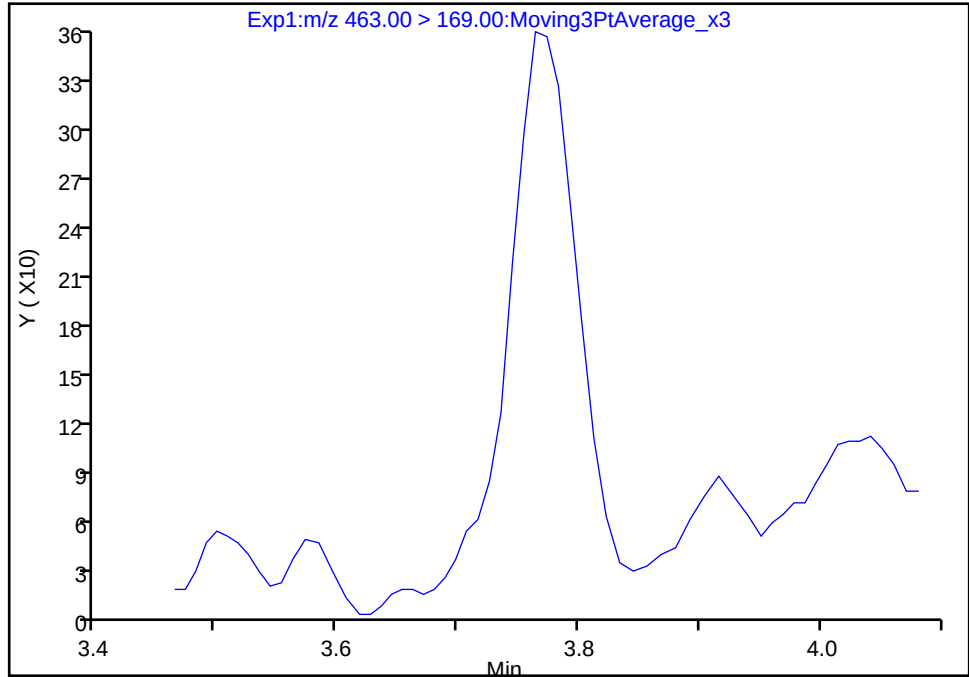
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

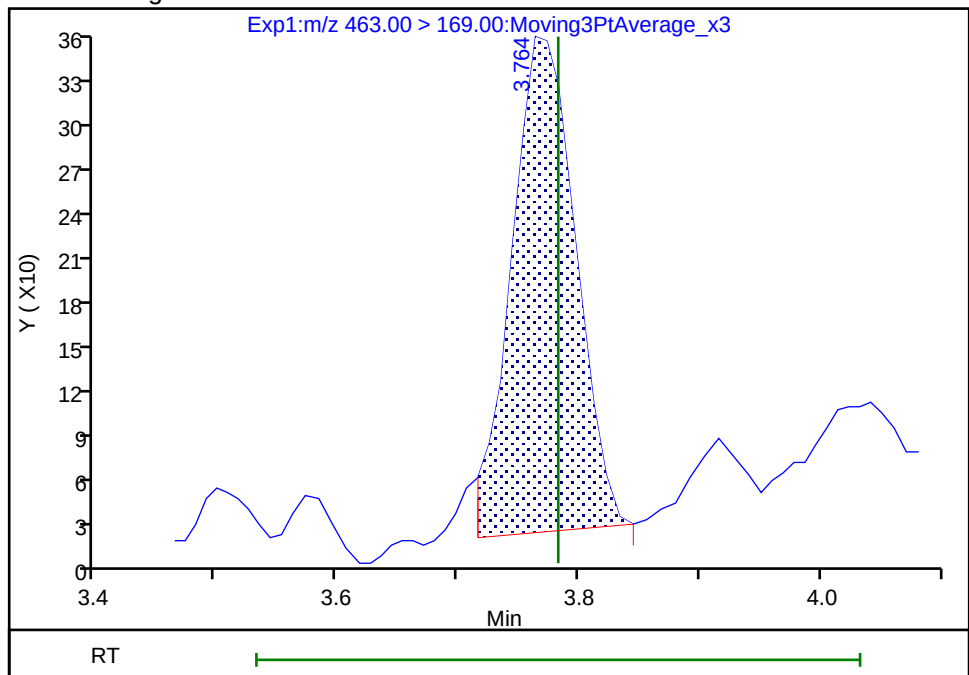
Signal: 2

Not Detected
Expected RT: 3.78

Processing Integration Results

RT: 3.76
Area: 1210
Amount: 0.005721
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:38:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

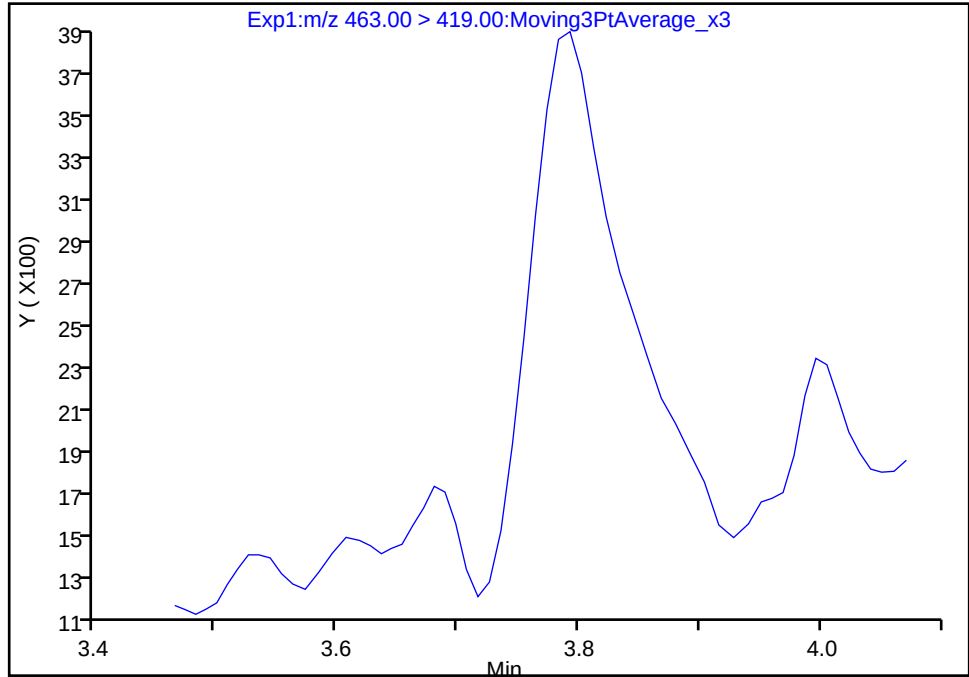
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

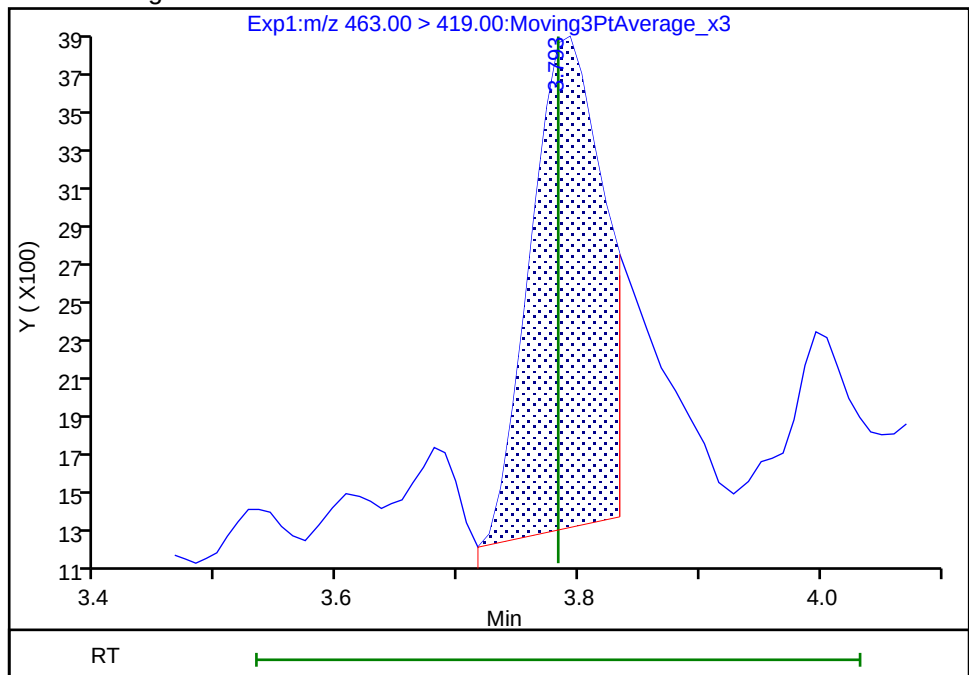
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 10133
Amount: 0.005721
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:38:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 53 of 97811/21/2022
4:10 PM

Eurofins Burlington

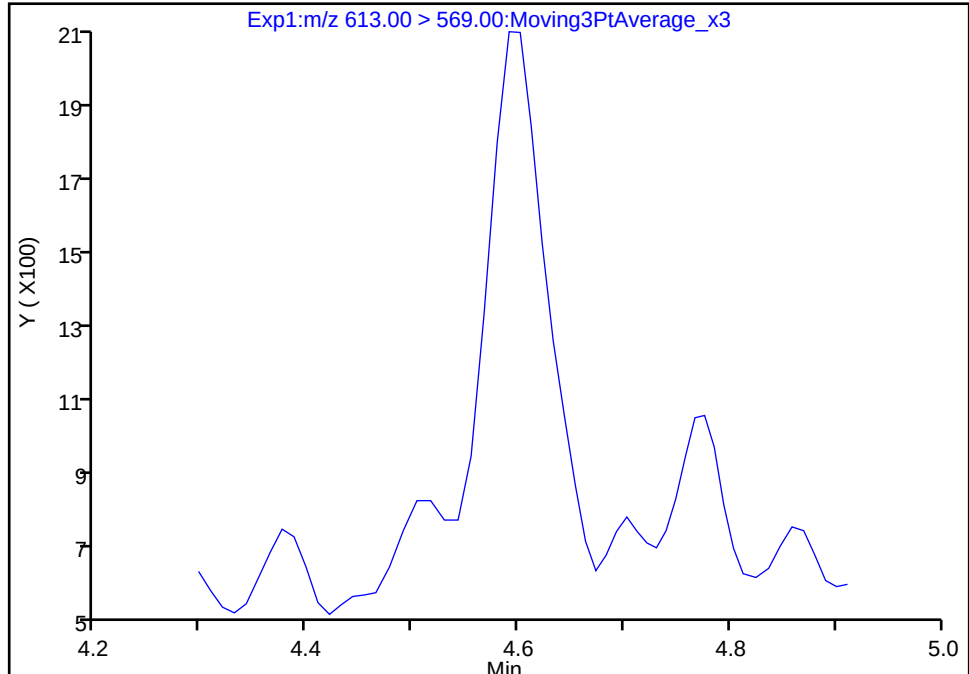
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d		
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1
Client ID:	BCS-09-20_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

37 Perfluorododecanoic acid, CAS: 307-55-1

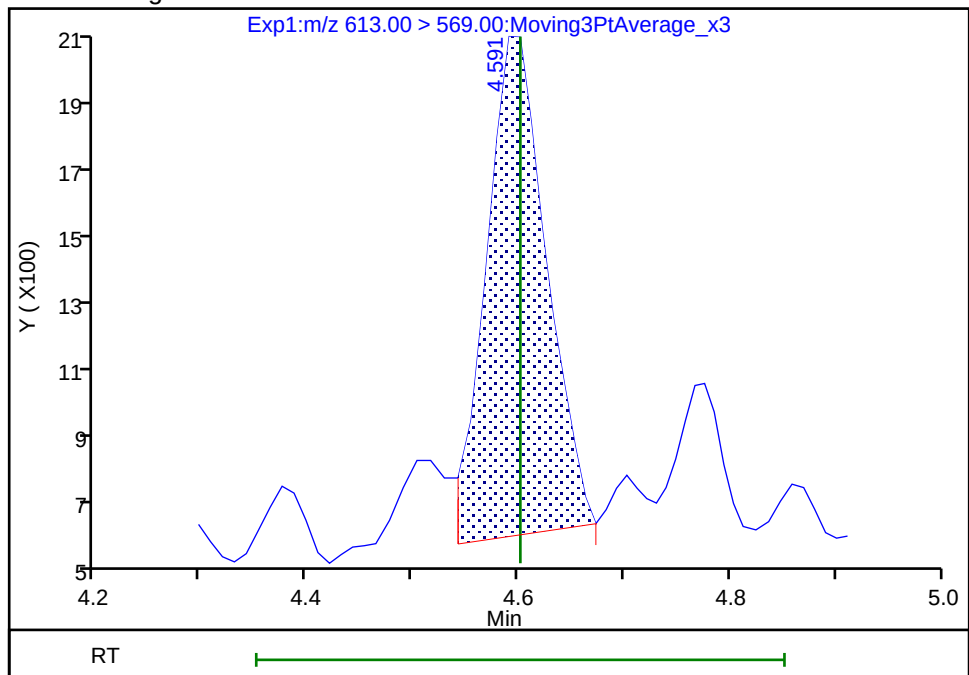
Signal: 1

Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 5701
Amount: 0.003296
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:39:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

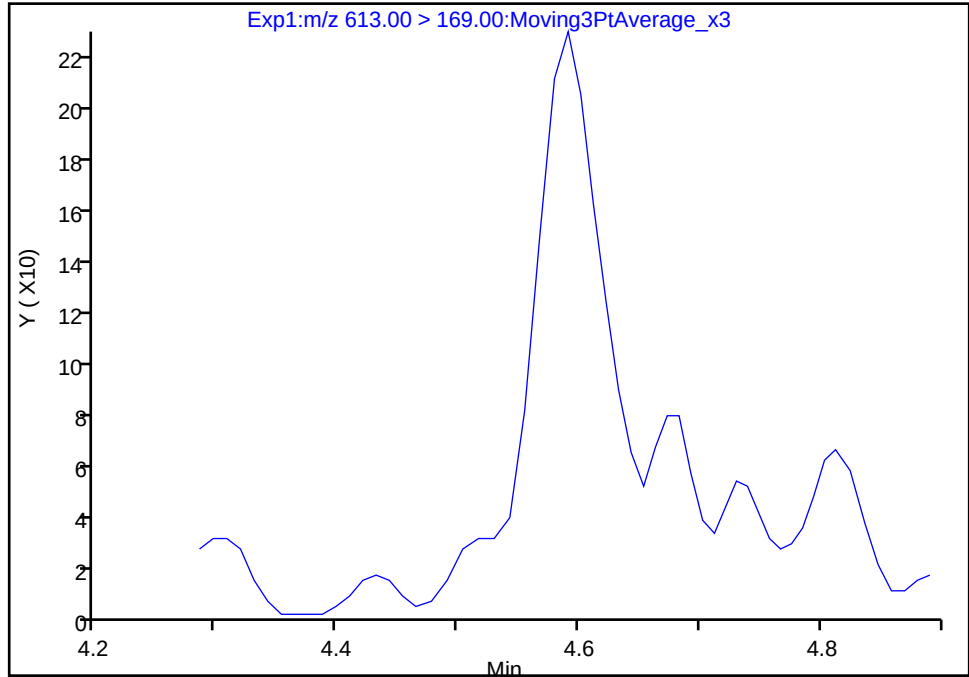
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

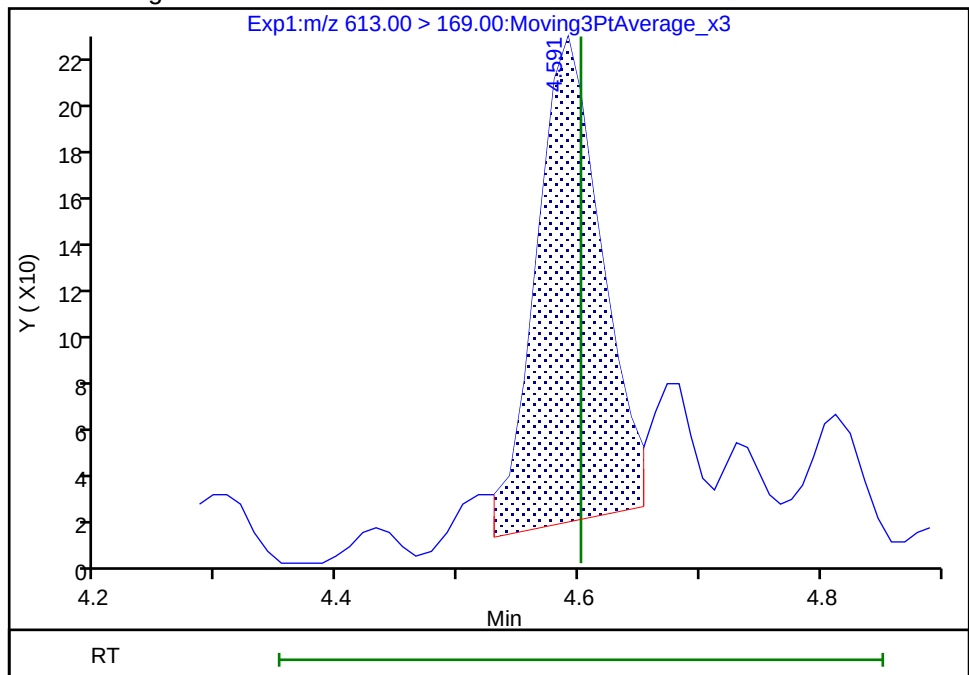
Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 770
Amount: 0.003296
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:39:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 55 of 97811/21/2022
4:10 PM

Eurofins Burlington

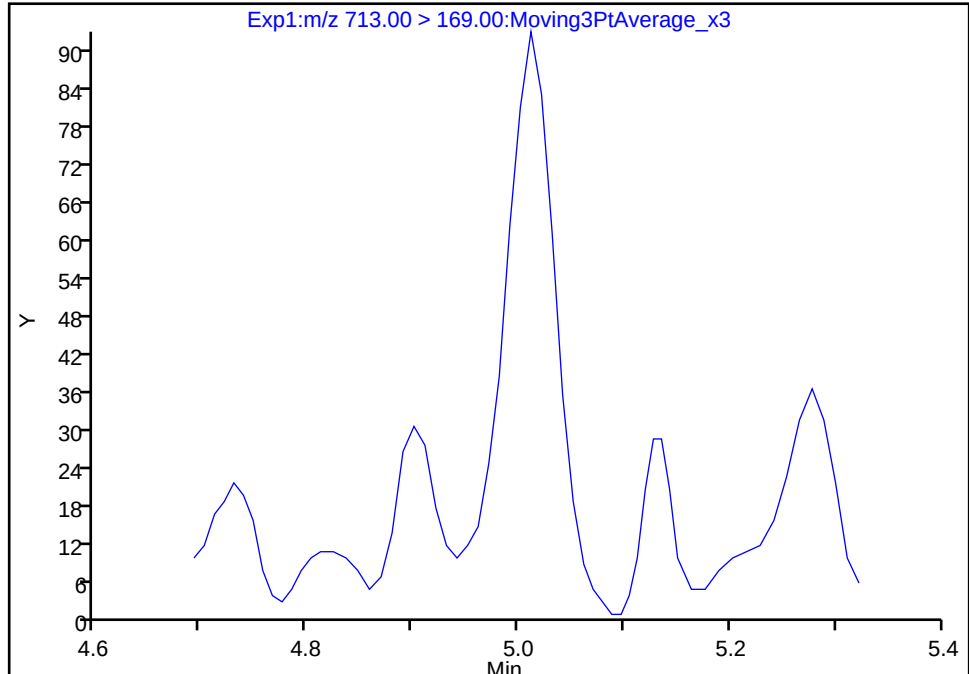
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

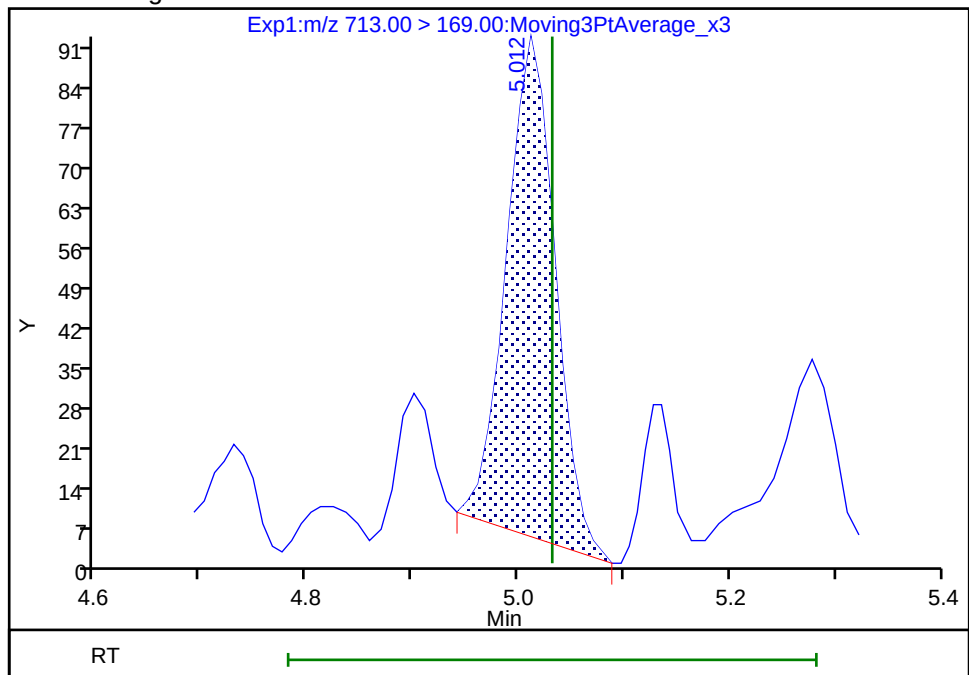
Signal: 1

Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results



RT: 5.01
Area: 282
Amount: 0.001396
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:39:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 56 of 978

11/21/2022
4:10 PM

Eurofins Burlington

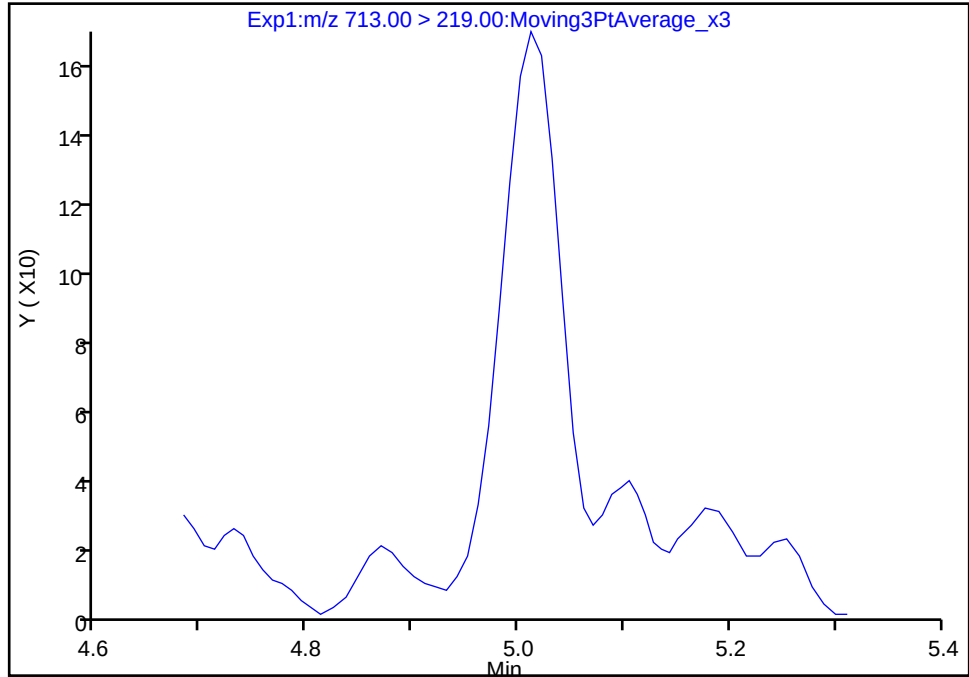
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d		
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1
Client ID:	BCS-09-20_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

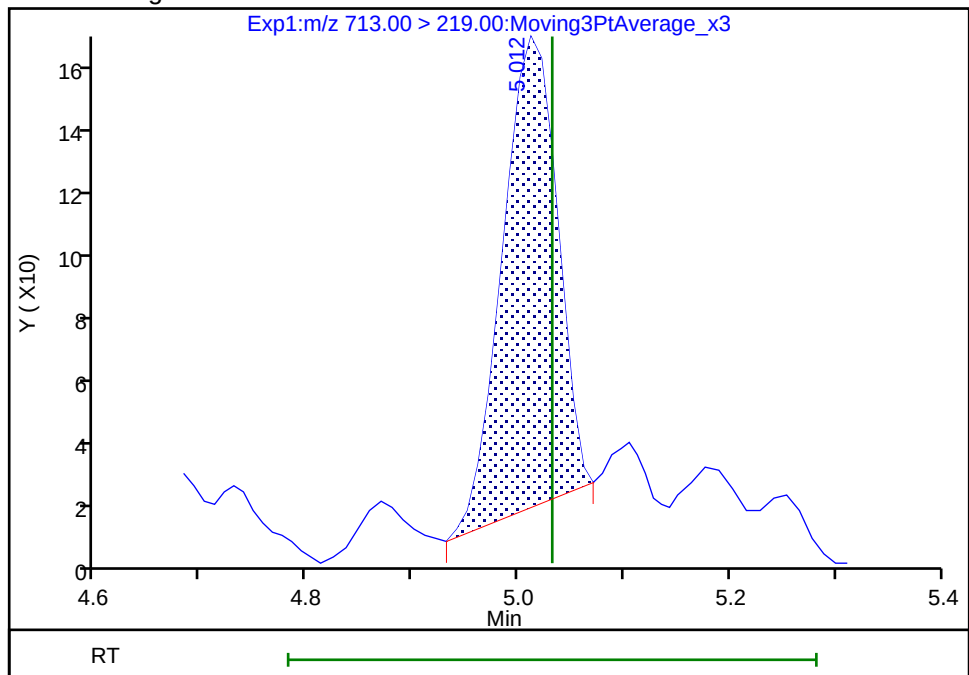
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 547
Amount: 0.001396
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:39:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 57 of 97811/21/2022
4:10 PM

Eurofins Burlington

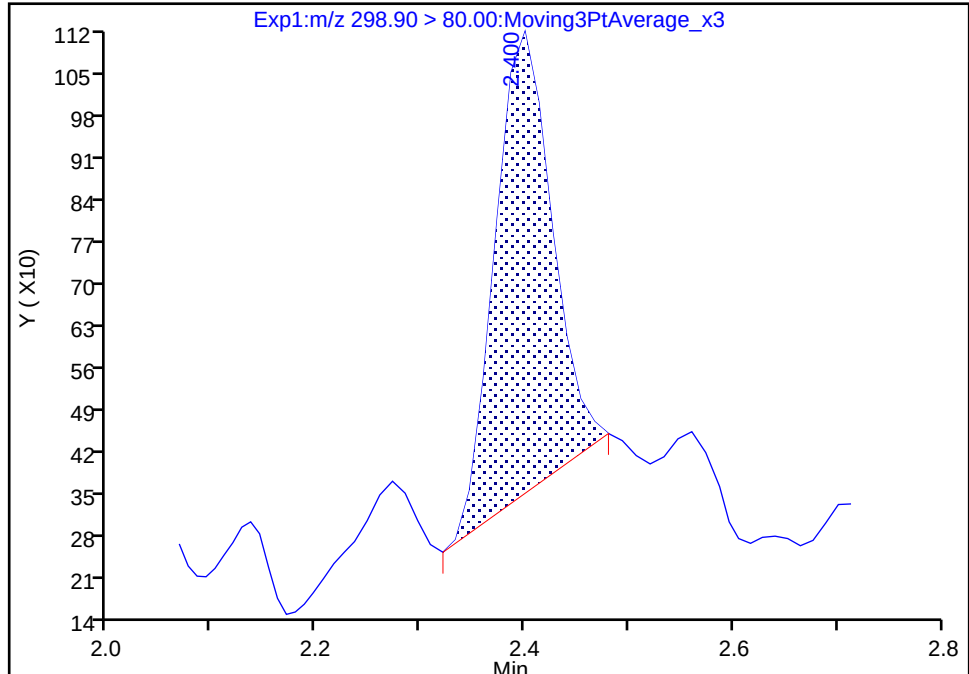
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

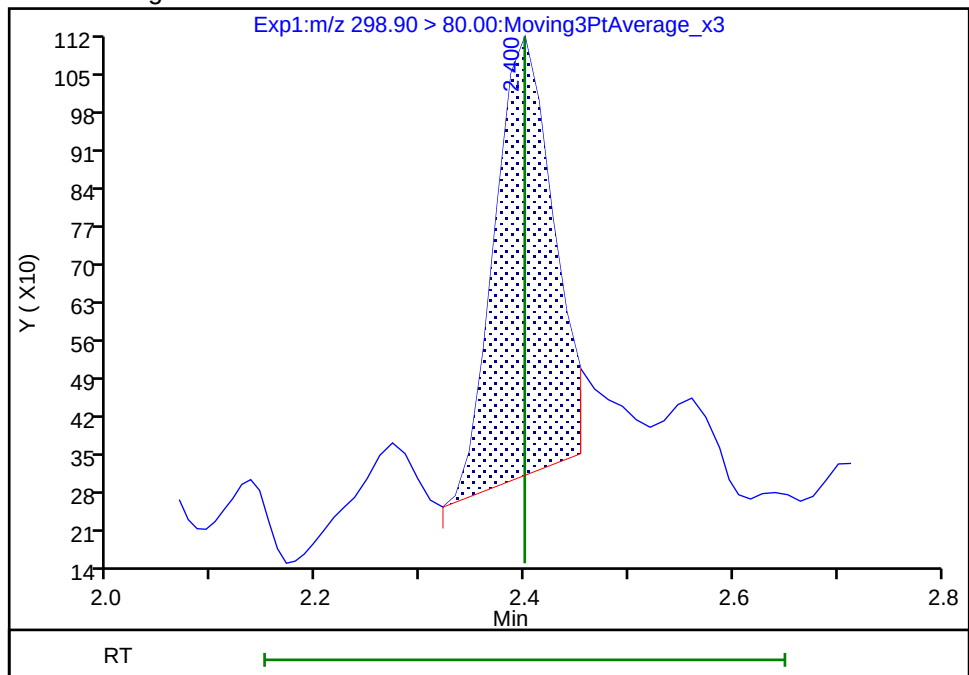
RT: 2.40
Area: 2958
Amount: 0.001910
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 3156
Amount: 0.002038
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

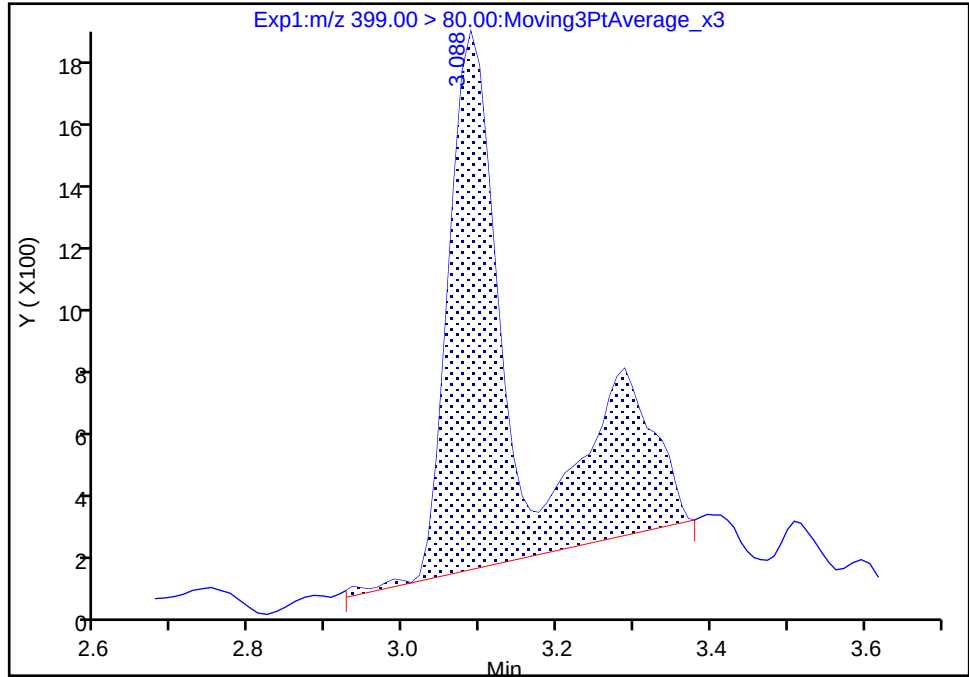
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

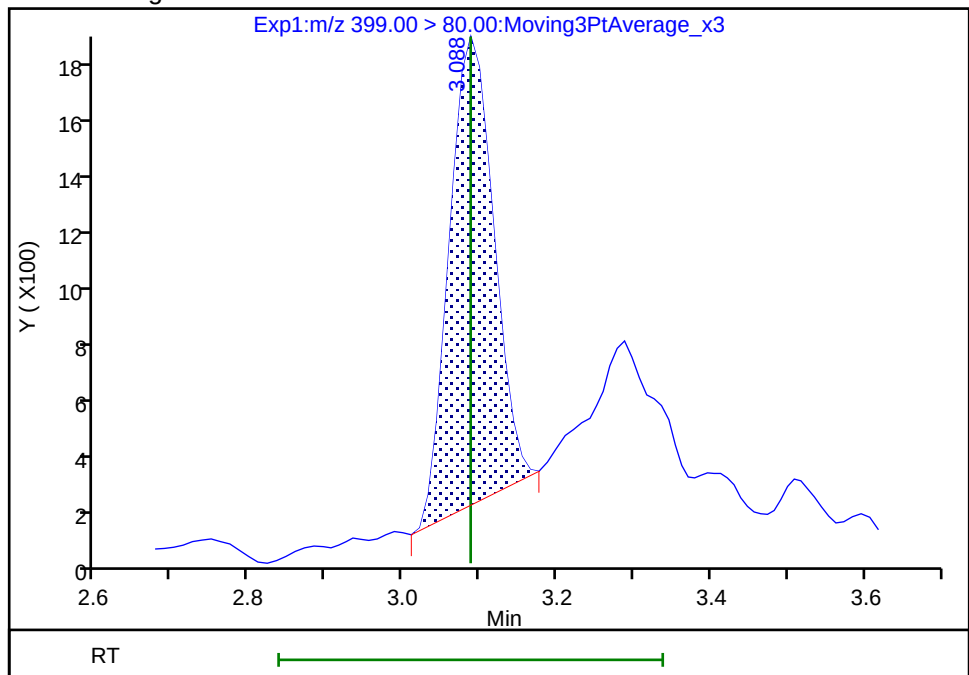
RT: 3.09
Area: 10317
Amount: 0.008825
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6338
Amount: 0.005421
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:36:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

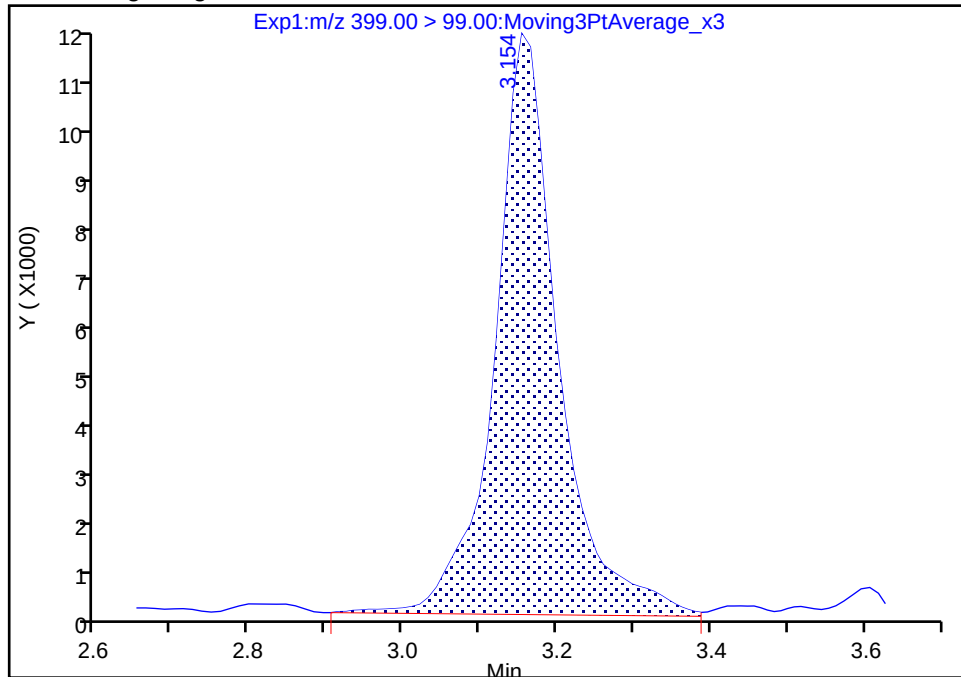
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector:	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

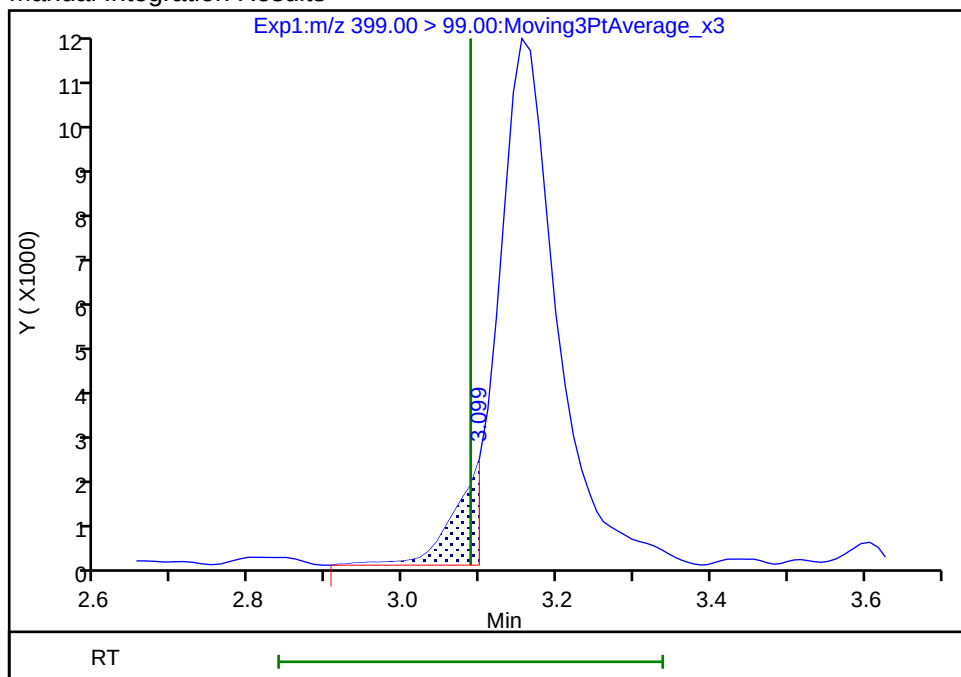
RT: 3.15
Area: 65205
Amount: 0.008825
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 5184
Amount: 0.005421
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:37:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

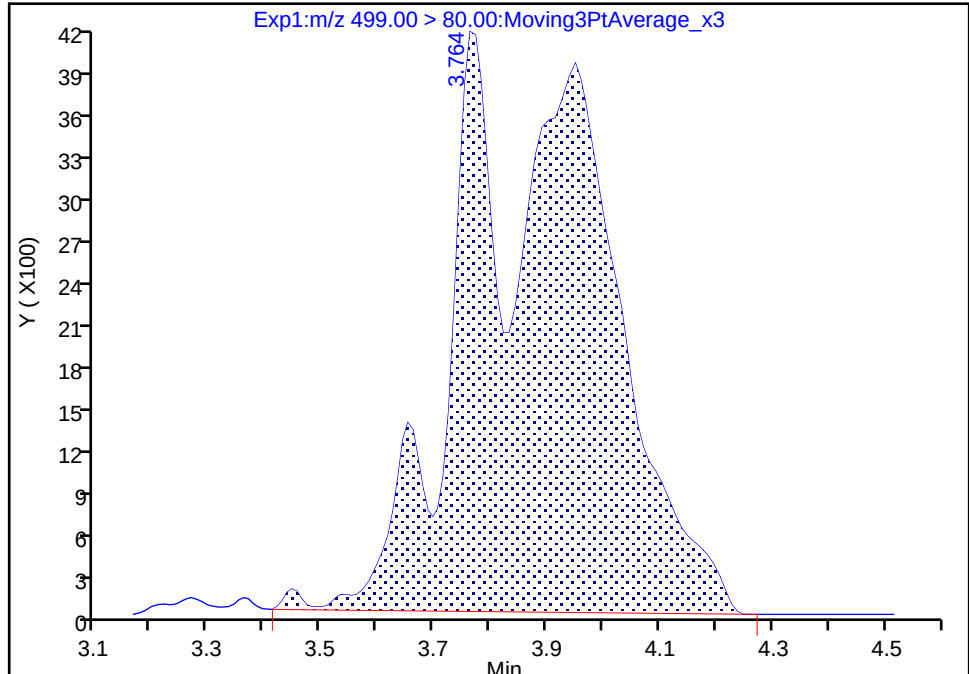
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d		
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1
Client ID:	BCS-09-20_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

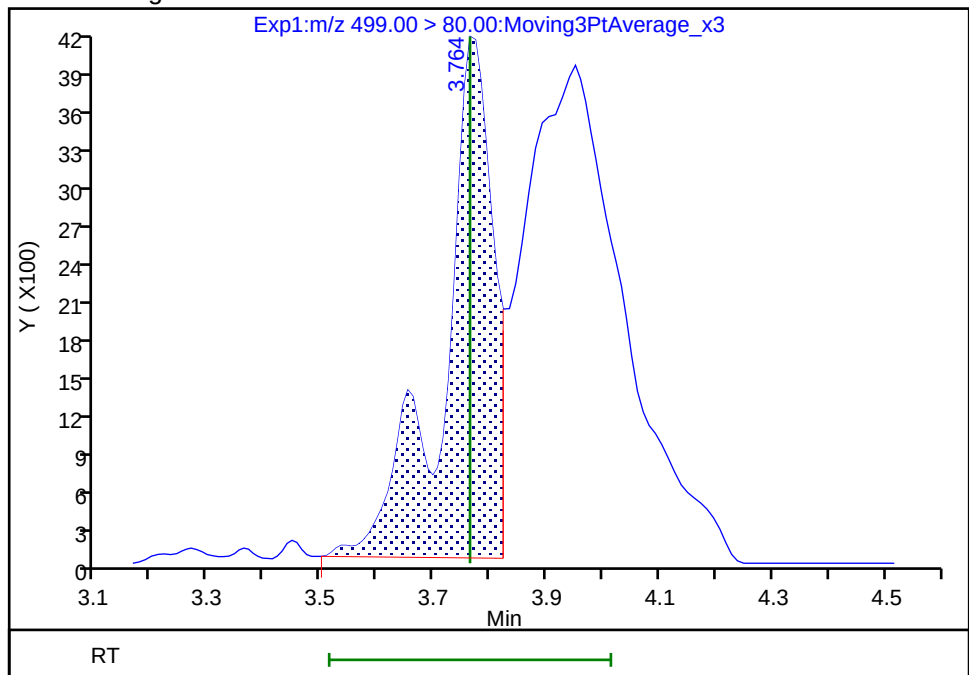
RT: 3.76
Area: 73596
Amount: 0.087923
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 24798
Amount: 0.029625
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:37:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

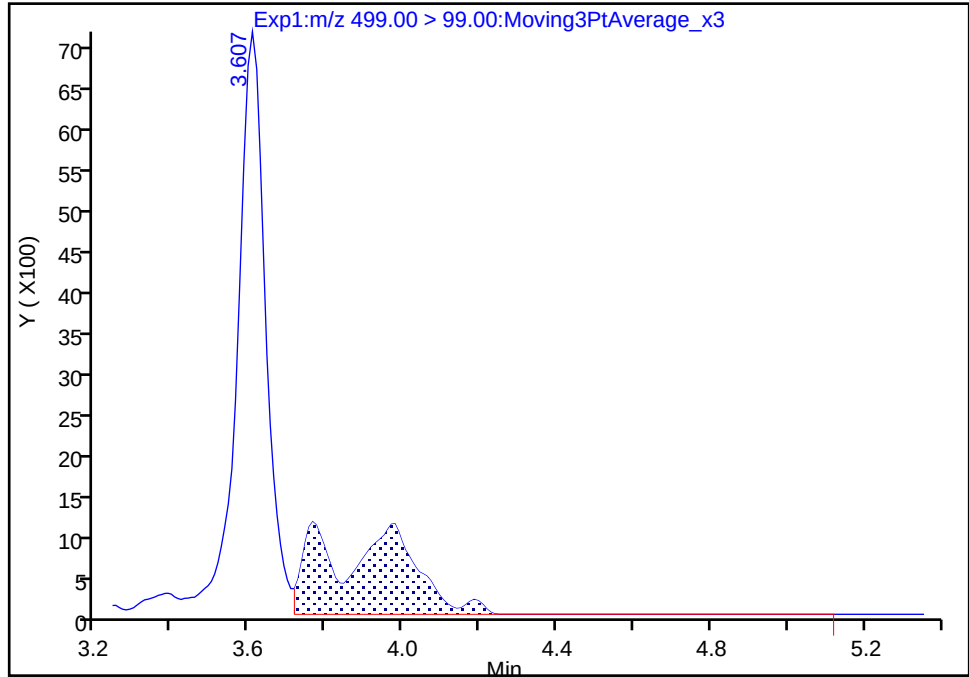
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

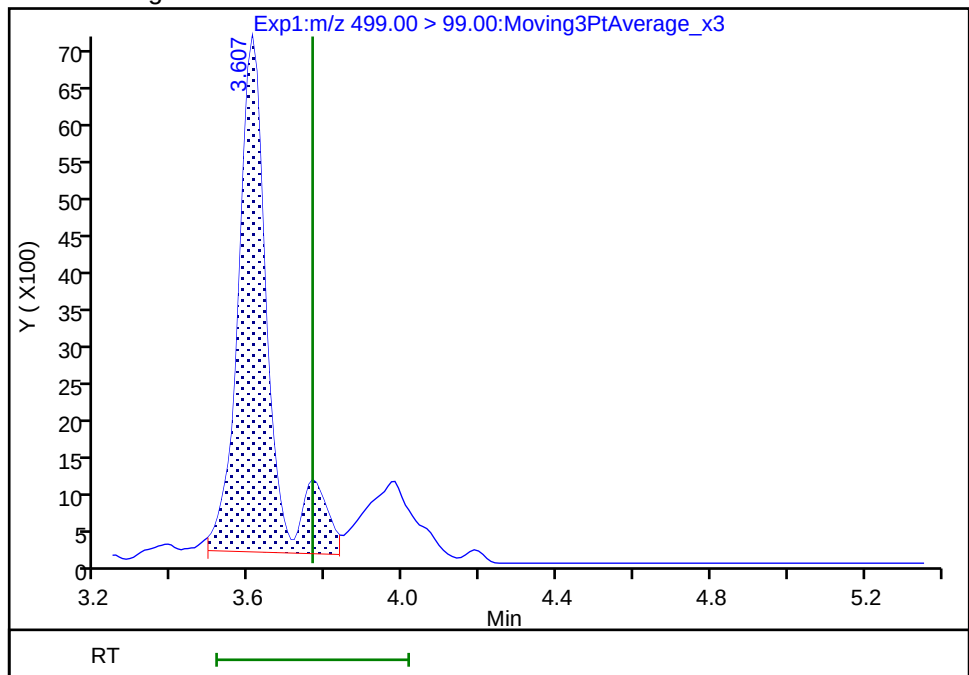
RT: 3.61
Area: 16989
Amount: 0.087923
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 38287
Amount: 0.029625
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:38:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d

Injection Date: 16-Nov-2022 21:51:03

Instrument ID: LC812

Lims ID: 460-269226-A-1-A

Lab Sample ID: 200-269226-1

Client ID: BCS-09-20_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

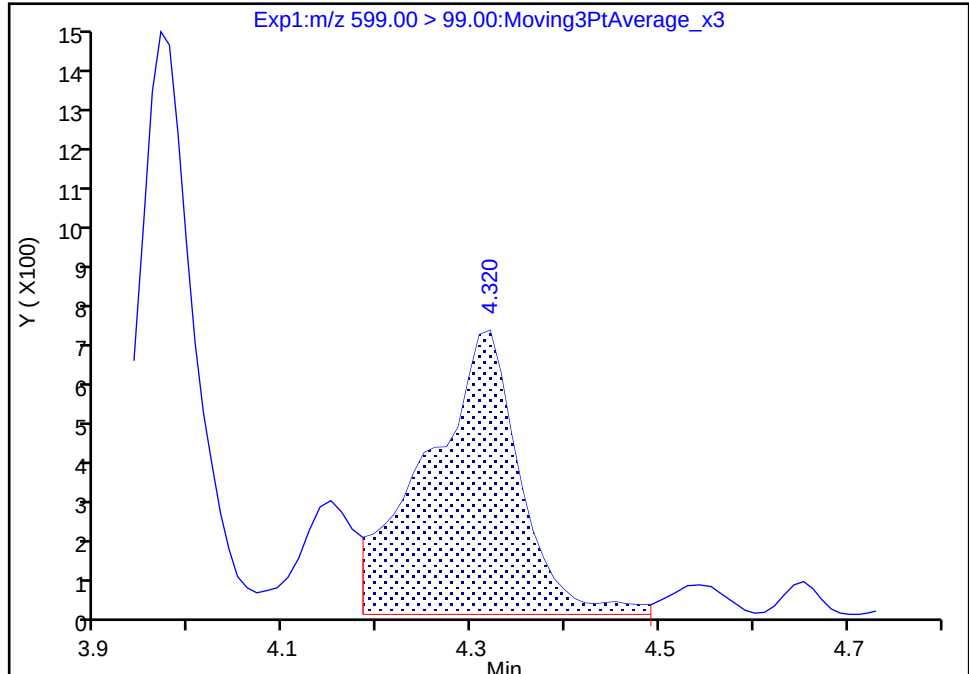
Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

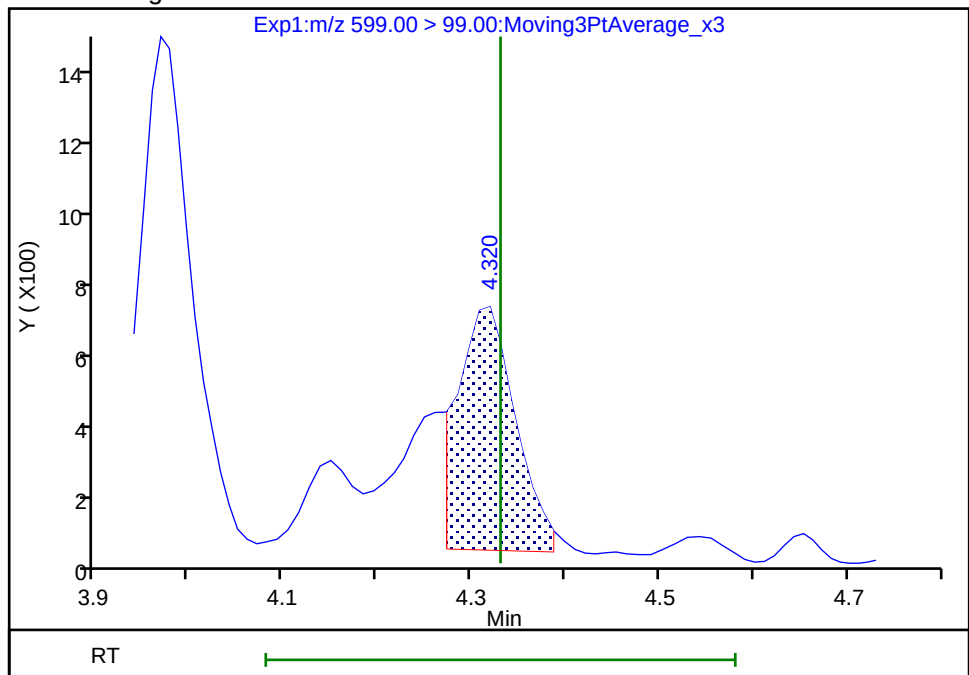
RT: 4.32
Area: 4730
Amount: 0.014663
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 2702
Amount: 0.015357
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:39:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

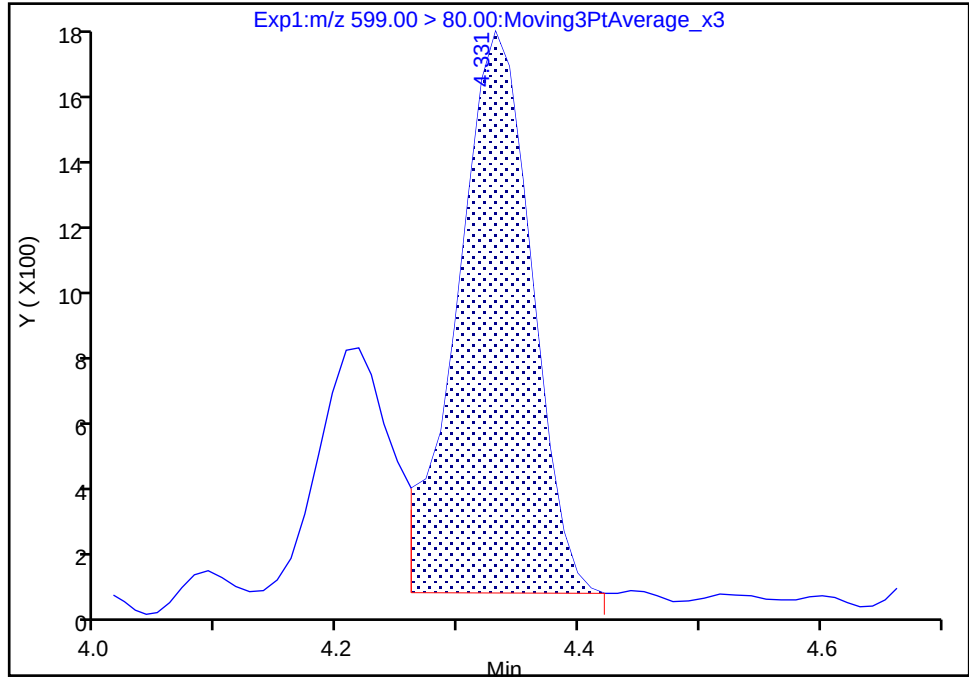
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

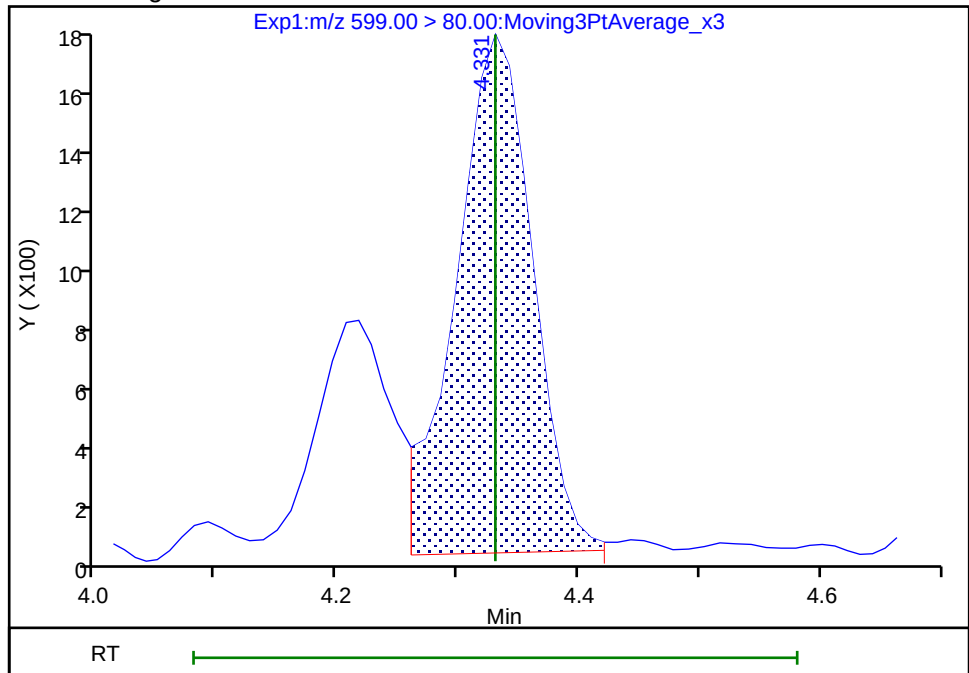
RT: 4.33
Area: 6970
Amount: 0.014663
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 7300
Amount: 0.015357
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 18:10:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

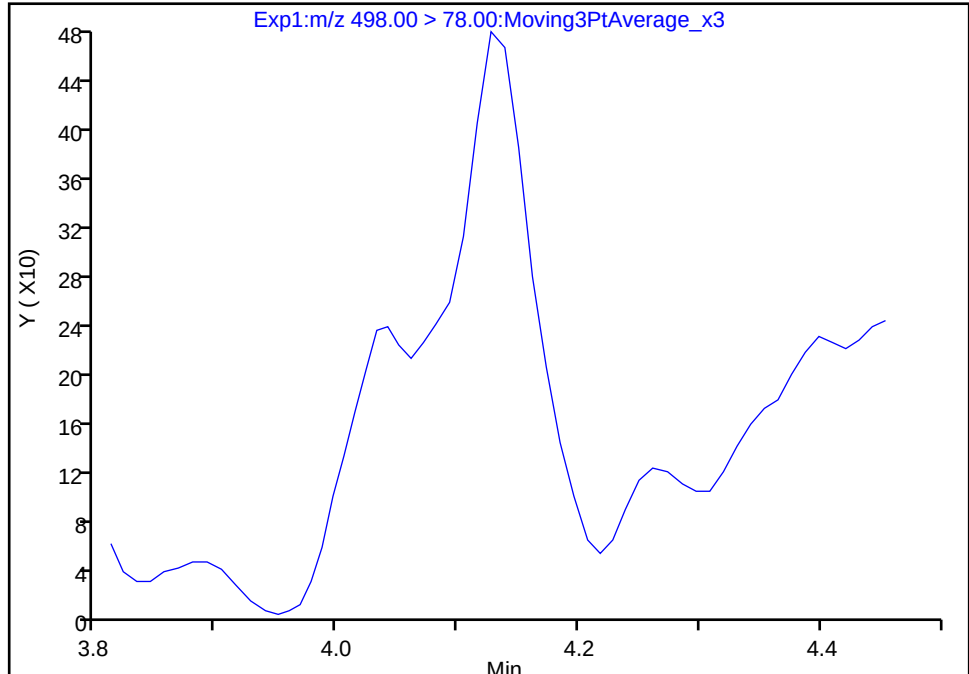
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

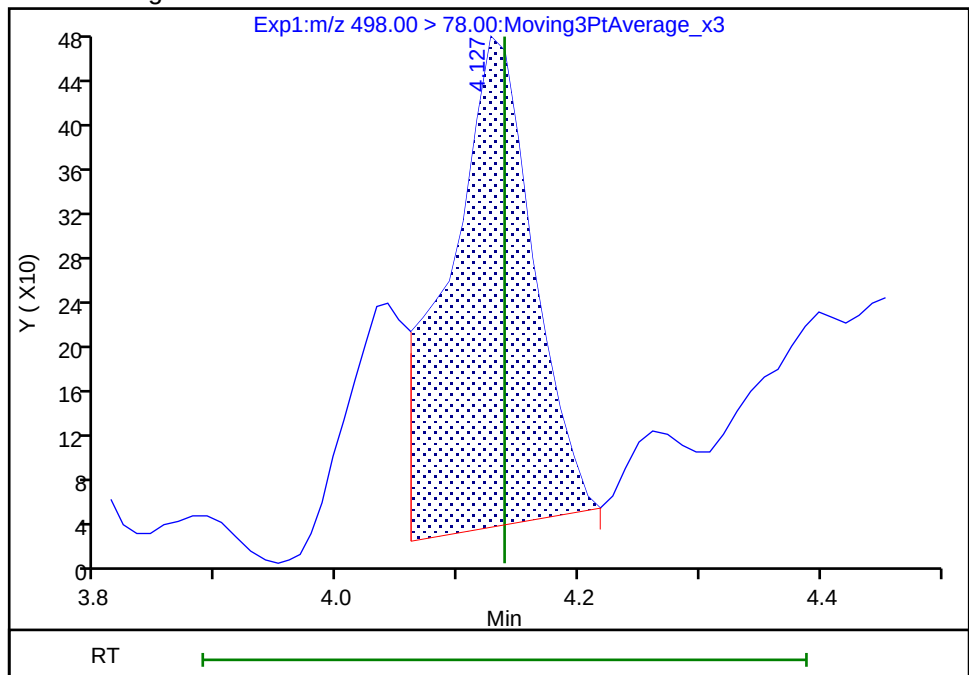
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:38:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

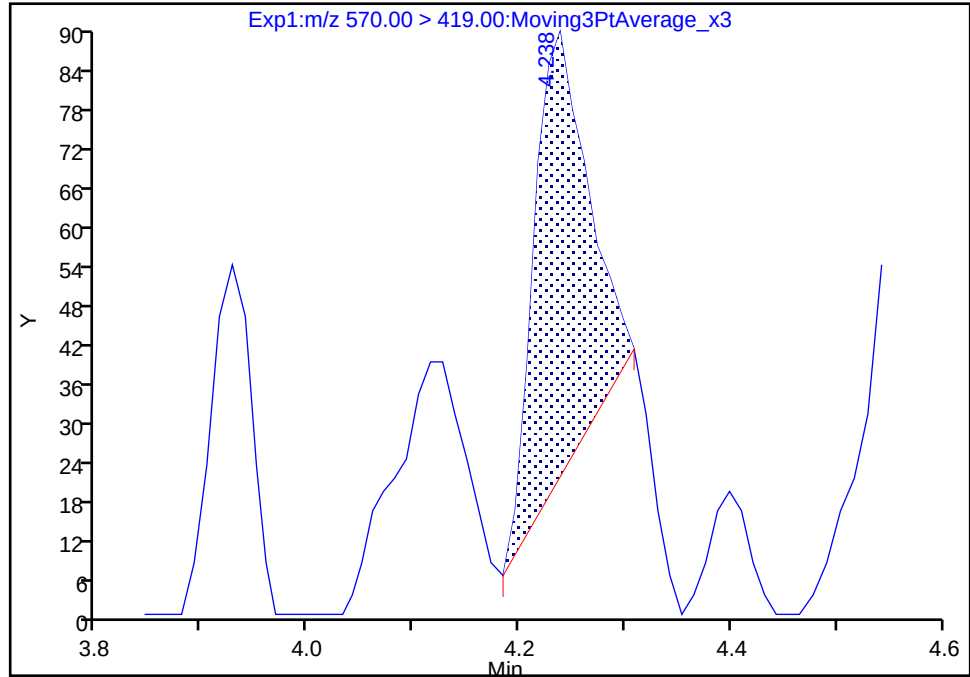
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d				
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812		
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1		
Client ID:	BCS-09-20_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

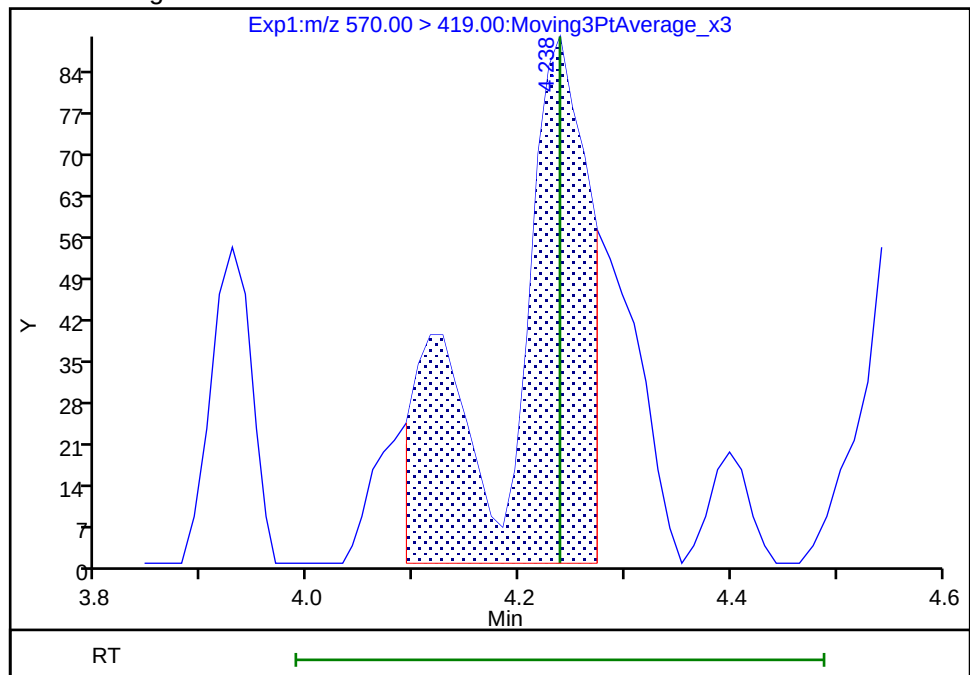
RT: 4.24
Area: 245
Amount: 0.000852
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 459
Amount: 0.001596
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:38:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 66 of 978

11/21/2022
4:10 PM

Eurofins Burlington

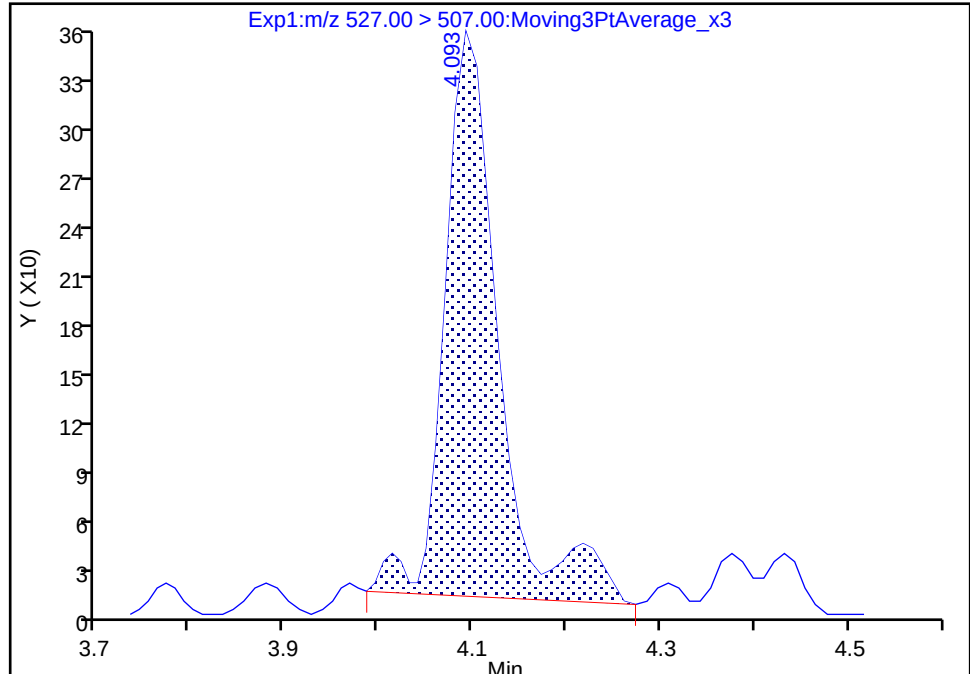
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d
Injection Date: 16-Nov-2022 21:51:03 Instrument ID: LC812
Lims ID: 460-269226-A-1-A Lab Sample ID: 200-269226-1
Client ID: BCS-09-20_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

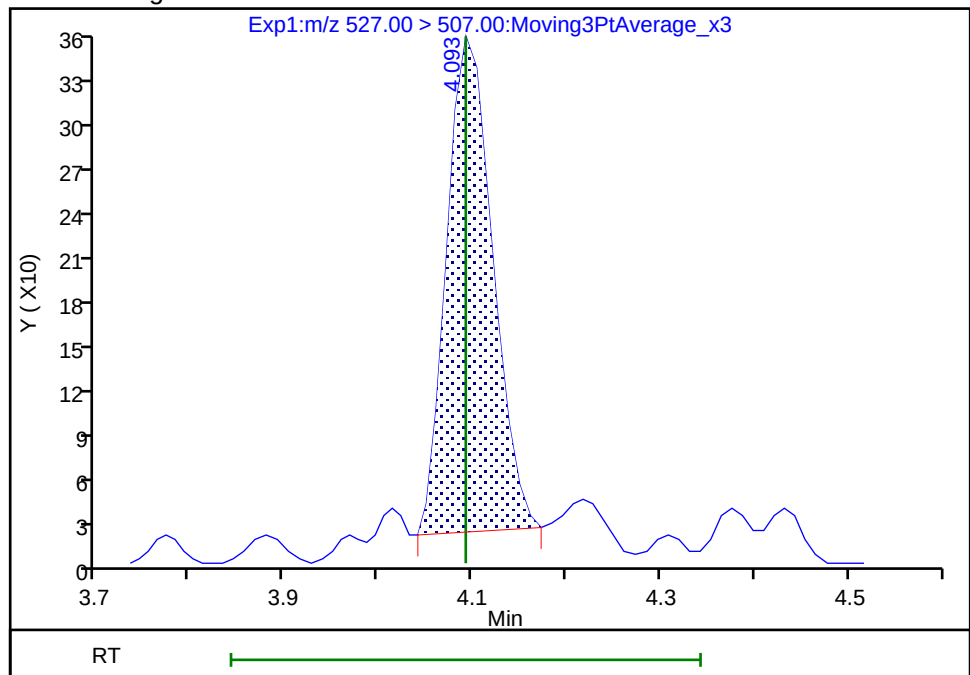
RT: 4.09
Area: 1377
Amount: 0.004673
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1128
Amount: 0.003828
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:38:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

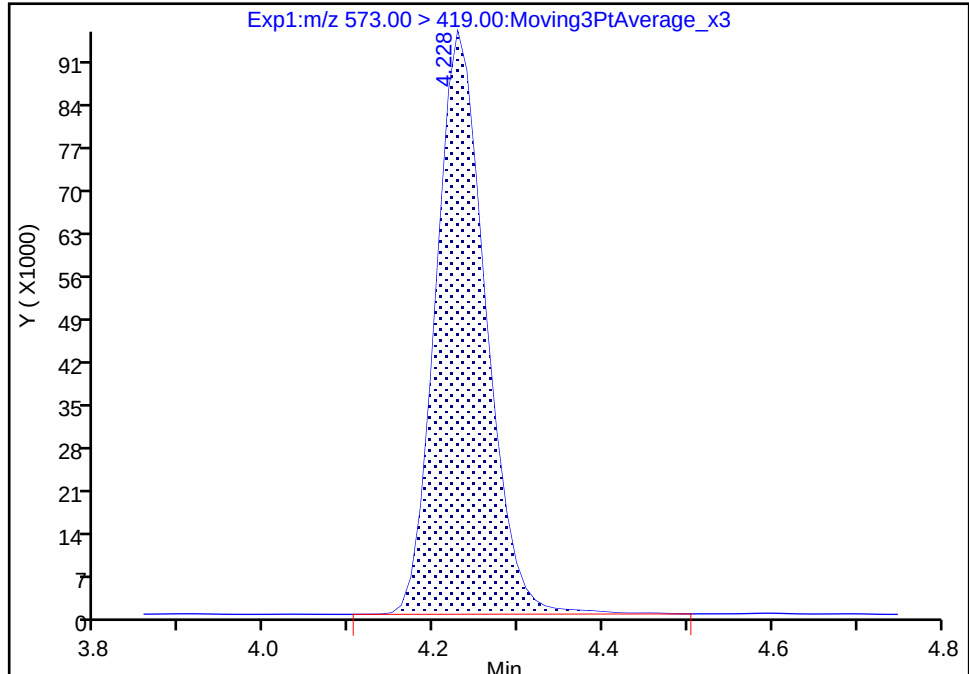
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d		
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1
Client ID:	BCS-09-20_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

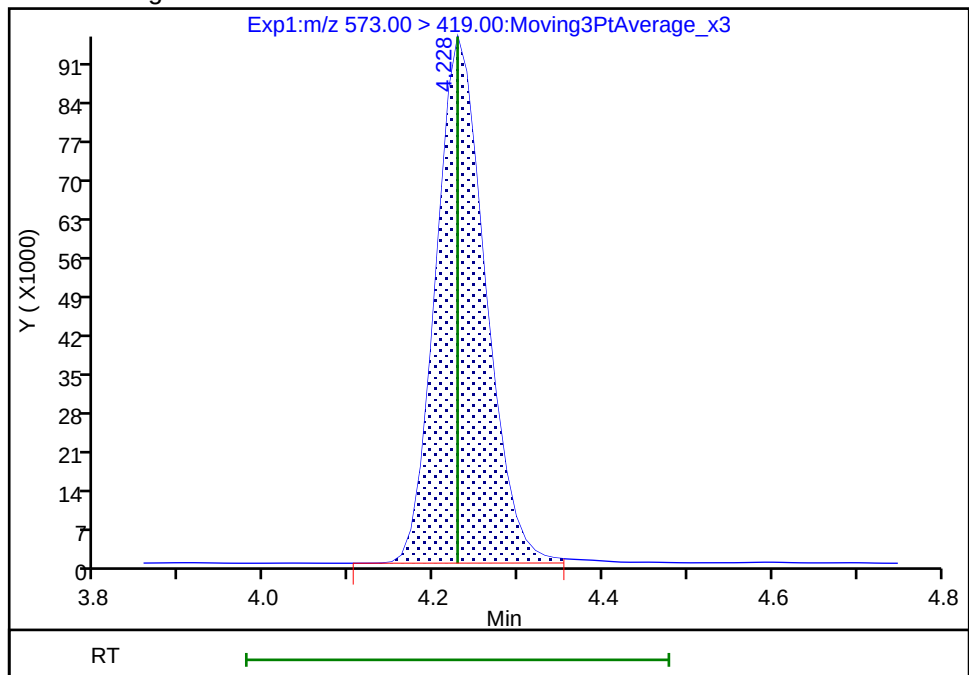
RT: 4.23
Area: 391024
Amount: 1.535628
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 388687
Amount: 1.526450
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:35:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

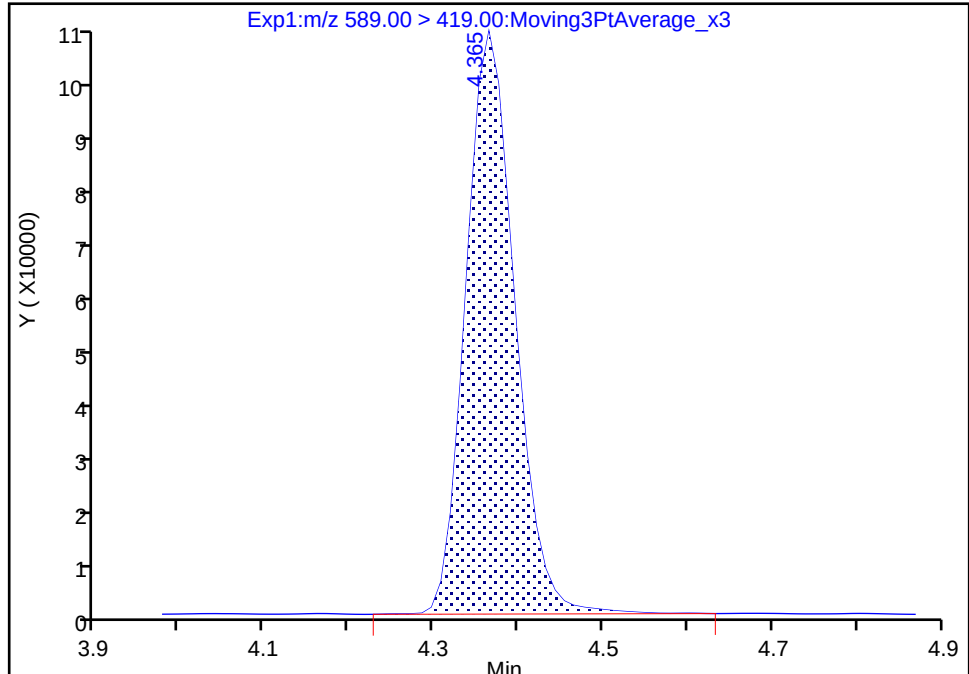
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D14.d		
Injection Date:	16-Nov-2022 21:51:03	Instrument ID:	LC812
Lims ID:	460-269226-A-1-A	Lab Sample ID:	200-269226-1
Client ID:	BCS-09-20_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	14

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

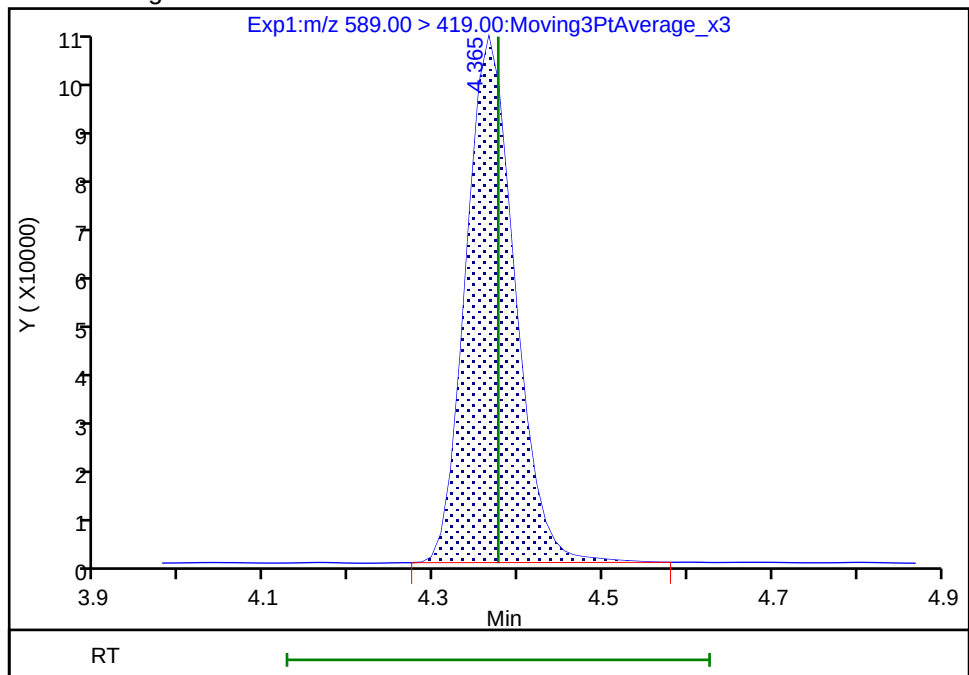
RT: 4.36
Area: 417556
Amount: 1.652328
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 415939
Amount: 1.645929
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:35:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: BCS-09-21_(10-10.5)P Lab Sample ID: 460-269226-2
 Matrix: Solid Lab File ID: PA221116D16.d
 Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:15
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.05(g) Date Analyzed: 11/16/2022 22:07
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 15.2 % Solids: 84.8 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.58	U	0.58	0.39
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.16	J	0.23	0.064
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	J	0.23	0.054
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.046
335-67-1	Perfluorooctanoic acid (PFOA)	0.23	U	0.23	0.068
375-95-1	Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.040
335-76-2	Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	0.19	J	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTrIA)	0.041	J	0.23	0.029
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.030
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.039
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.23	U	0.23	0.027
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.035	J	0.23	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.29		0.23	0.040
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.33	J	2.33	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.47	J	2.33	0.097
27619-97-2	6:2 FTS	2.33	U	2.33	0.067
39108-34-4	8:2 FTS	2.33	U	2.33	0.043

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: BCS-09-21_(10-10.5)P Lab Sample ID: 460-269226-2
 Matrix: Solid Lab File ID: PA221116D16.d
 Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:15
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.05(g) Date Analyzed: 11/16/2022 22:07
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 15.2 % Solids: 84.8 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	72		50-150
STL01892	13C4 PFHpA	77		50-150
STL00990	13C4 PFOA	85		50-150
STL00991	13C4 PFOS	77		50-150
STL00995	13C5 PFNA	82		50-150
STL00992	13C4 PFBA	71		50-150
STL00993	13C2 PFHxA	77		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	93		50-150
STL00998	13C2 PFDoA	99		50-150
STL01056	13C8 FOSA	78		50-150
STL01893	13C5 PFPeA	72		50-150
STL02116	13C2 PFTeDA	99		50-150
STL02118	d3-NMeFOSAA	115		50-150
STL02117	d5-NEtFOSAA	120		50-150
STL02279	M2-6:2 FTS	78		50-150
STL02280	M2-8:2 FTS	79		50-150
STL02337	13C3 PFBS	71		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
 Lims ID: 460-269226-A-2-A
 Client ID: BCS-09-21_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Nov-2022 22:07:26 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-269226-A-2-A
 Misc. Info.: 200-0053360-016 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:19:16 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:47:57

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	2.069	2.068	0.001	0.599	2078355	0.8890		71.1	6387	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.076	0.001	1.004	109914	0.0653		7.7		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.378	2.373	0.005	0.689	1666726	0.9061		72.5	2338	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.378	2.373	0.005	1.000	95132	0.0667		1.7		M
D 47 13C3 PFBS										
301.90 > 80.00	2.391	2.386	0.005	0.692	1532406	0.8223		70.7	165231	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.391	2.400	-0.009	1.000	2403	0.001581	Target=2.19	2.4		M
298.90 > 99.00	2.391	2.400	-0.009	1.000	1528		1.57(1.09-3.28)	0.1		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.721	2.725	-0.004	0.788	1800348	0.9626		77.0	2346	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.721	2.725	-0.004	1.000	127911	0.0818	Target=13.67	19.6		M
313.00 > 119.00	2.721	2.725	-0.004	1.000	8315		15.38(6.83-20.50)	11.7		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.094	3.088	0.006	0.896	1134968	0.8530		72.1	3690	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.094	3.088	0.006	1.000	4756	0.004260	Target=3.60	5.5		RM
399.00 > 99.00	3.094	3.088	0.006	1.000	6467		0.74(1.80-5.40)	1.1		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.094	3.088	0.006	0.896	1780110	0.9686		77.5	4374	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.094	3.088	0.006	1.000	27452	0.0173	Target=3.76	4.6		M
363.00 > 169.00	3.094	3.088	0.006	1.000	7193		3.82(1.88-5.65)	12.0		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.444	3.430	0.014	0.997	210082	0.9245		77.9	185	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.430	0.005	0.997	2451	0.007605			11.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.444	3.439	0.005	0.997	2075929	1.06		84.5	5307	
* 62 13C2 PFOA										
415.00 > 370.00	3.453	3.439	0.014		2395909	1.25			5106	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.453	3.439	0.014	1.003	52638	0.0280	Target=2.73		3.2	M
413.00 > 169.00	3.453	3.439	0.014	1.003	17111		3.08(1.37-4.10)		20.3	M
D 18 13C4 PFOS										
503.00 > 80.00	3.770	3.764	0.006	1.092	804540	0.9176		76.8	1984	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.770	3.764	0.006	1.000	27382	0.0335	Target=5.09		4.2	RM
499.00 > 99.00	3.603	3.764	-0.161	0.956	72754		0.38(2.55-7.64)		29.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.789	3.783	0.006	1.097	1992249	1.03		82.4	3519	
20 Perfluorononanoic acid										
463.00 > 419.00	3.789	3.783	0.006	1.000	5970	0.003569	Target=7.76		1.1	RM
463.00 > 169.00	3.789	3.783	0.006	1.000	505		11.82(3.88-11.63)		2.7	M
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.093	-0.001	1.185	2108376	1.12		89.8	4162	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.093	-0.001	1.000	5273	0.002907	Target=9.83		1.6	
513.00 > 169.00	4.080	4.093	-0.013	0.997	673		7.84(4.91-14.74)		1.8	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.185	254236	0.9462		79.0	497	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	1186	0.004507			13.0	M
D 21 13C8 FOSA										
506.00 > 78.00	4.149	4.138	0.011	1.202	1493654	0.9761		78.1	4301	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.149	4.138	0.011	1.000	150698	0.1249			33.8	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.237	4.228	0.009	1.227	380157	1.44		115	1836	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.237	4.238	-0.001	1.000	39895	0.1418			99.6	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.330	4.331	-0.001	1.149	6960	0.0150	Target=2.59		24.0	M
599.00 > 99.00	4.341	4.331	0.010	1.152	2243		3.10(1.30-3.89)		1.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.364	4.365	-0.001	1.264	1796483	1.17		93.4	5974	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.364	4.376	-0.012	1.264	394213	1.50		120	973	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.375	4.376	-0.001	1.003	58247	0.2021			504	M

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

D 36 13C2 PFDaA

615.00 > 570.00	4.601	4.602	-0.001	1.332	1856896	1.24		99.0	5066	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.602	-0.001	1.000	125908	0.0793	Target=6.96		12.6	
613.00 > 169.00	4.601	4.602	-0.001	1.000	17257		7.30(3.48-10.43)		134	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.812	4.825	-0.013	1.046	25749	0.0177	Target=4.85		2.7	M
663.00 > 169.00	4.812	4.825	-0.013	1.046	5800		4.44(2.42-7.27)		35.6	M

D 43 13C2 PFTeDA

715.00 > 670.00	5.011	5.032	-0.021	1.451	1581927	1.23		98.7	5113	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.011	5.032	-0.021	1.000	588	0.002987	Target=0.99		6.5	M
713.00 > 219.00	5.011	5.032	-0.021	1.000	426		1.38(0.49-1.48)		9.3	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d

Injection Date: 16-Nov-2022 22:07:26

Instrument ID: LC812

Lims ID: 460-269226-A-2-A

Lab Sample ID: 200-269226-2

Client ID: BCS-09-21_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

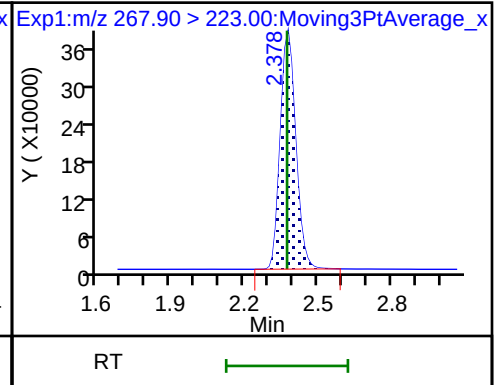
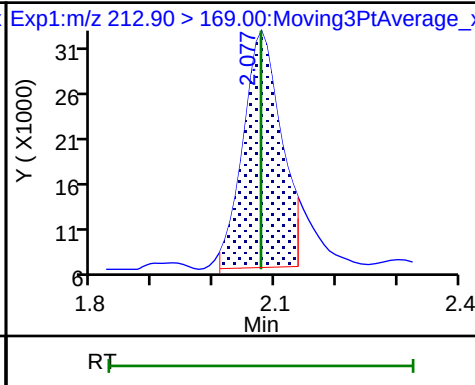
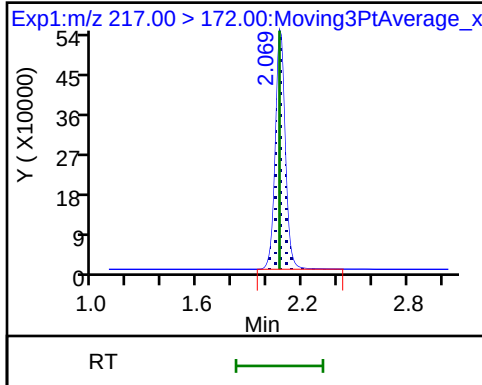
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

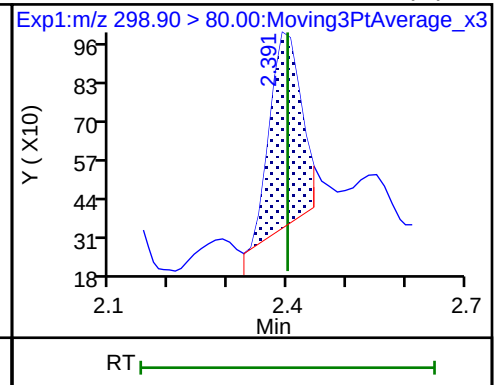
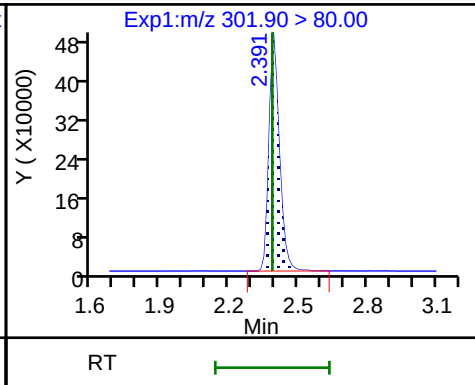
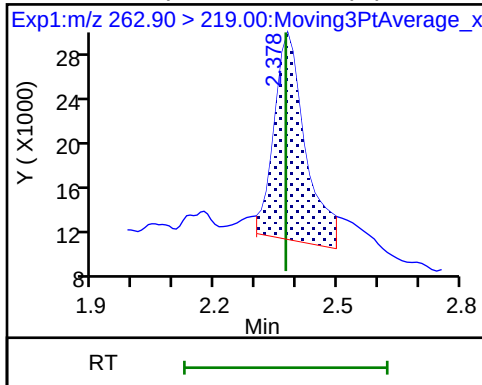
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

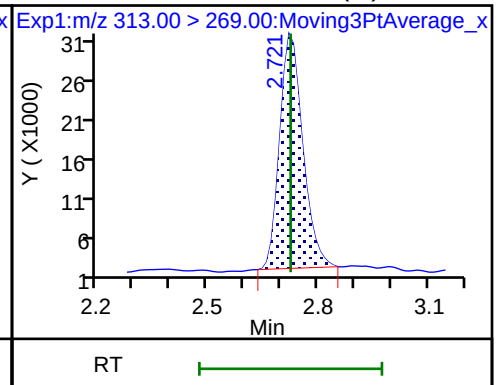
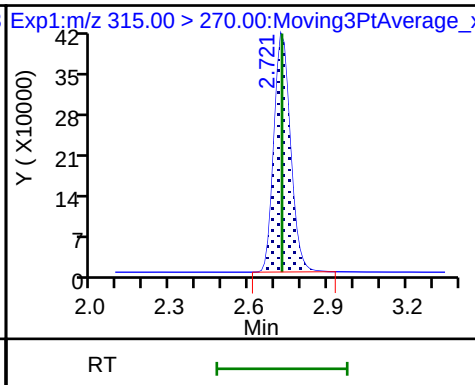
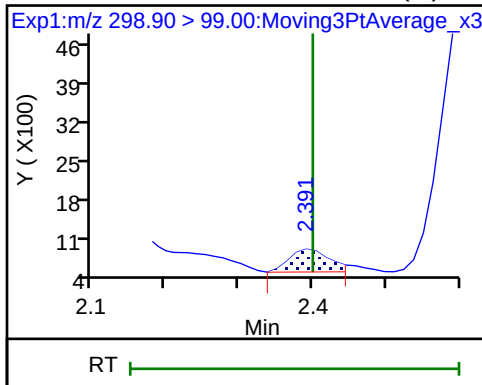
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

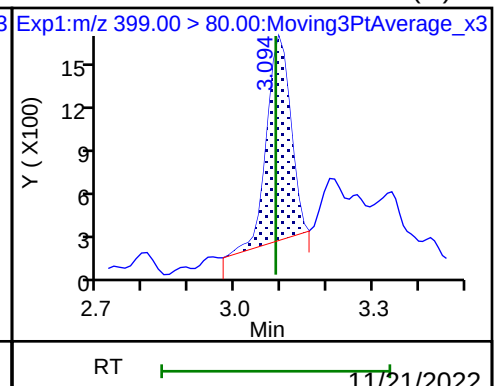
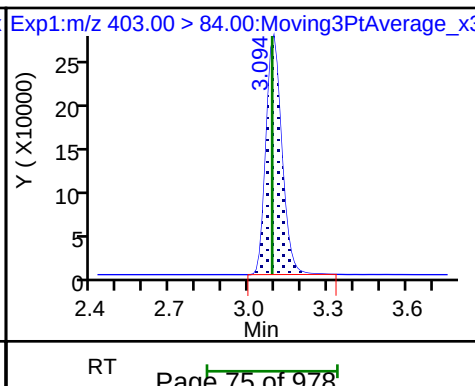
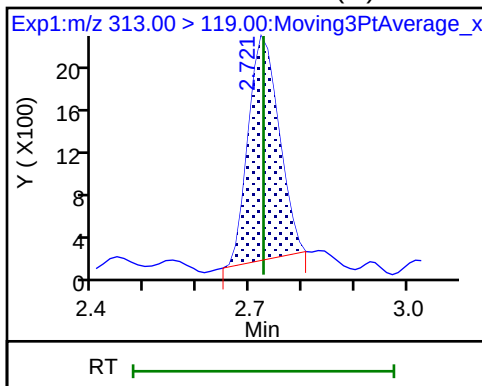
6 Perfluorohexanoic acid (M)

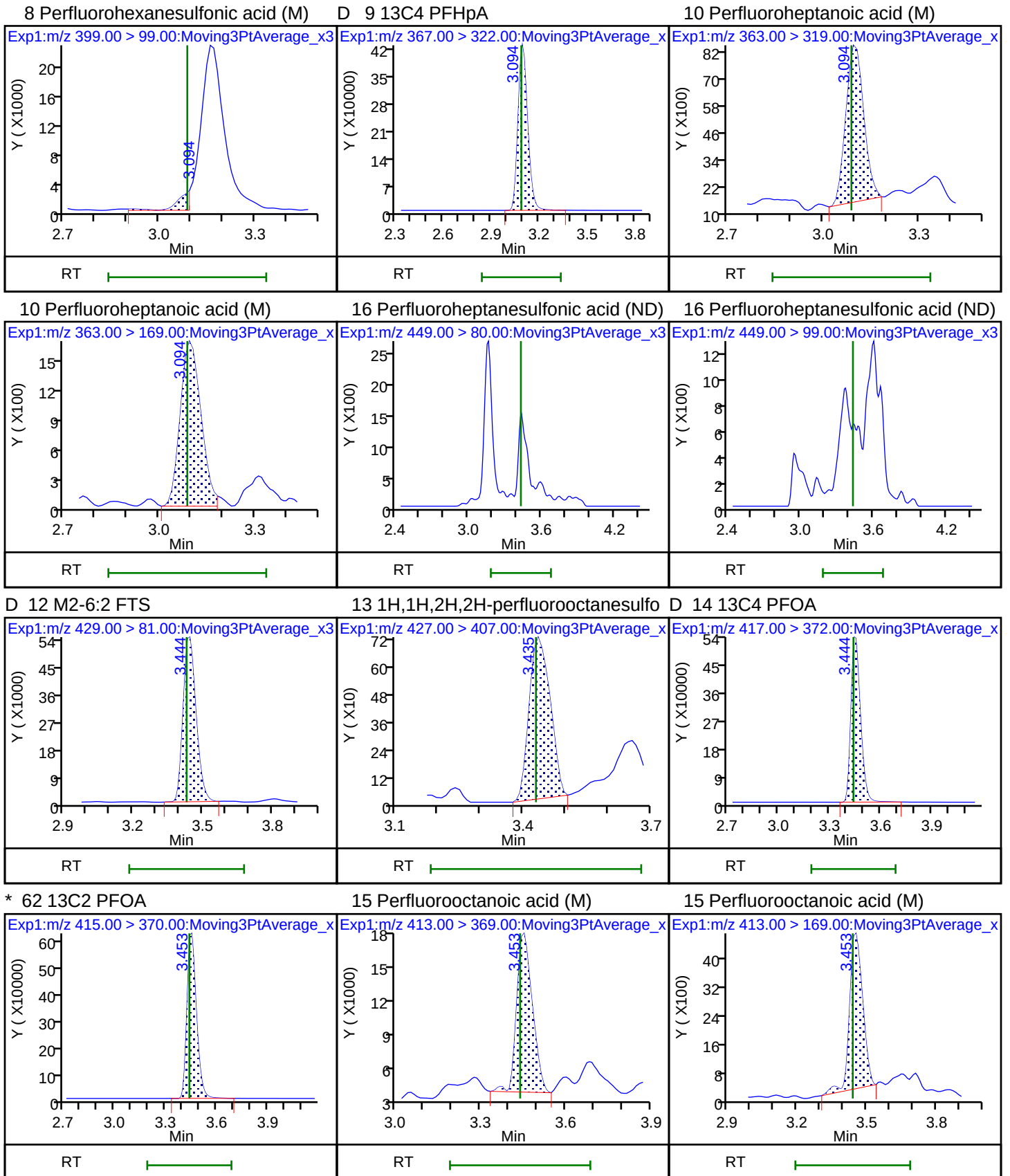


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

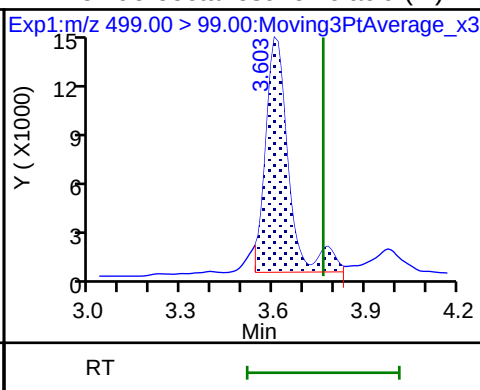
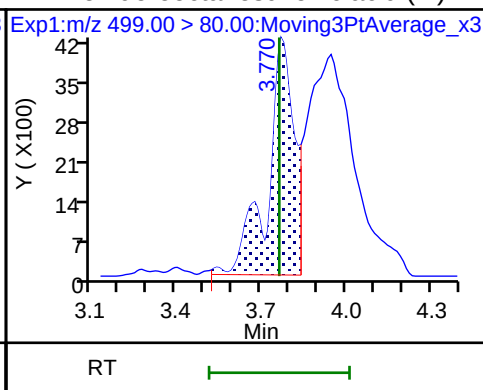
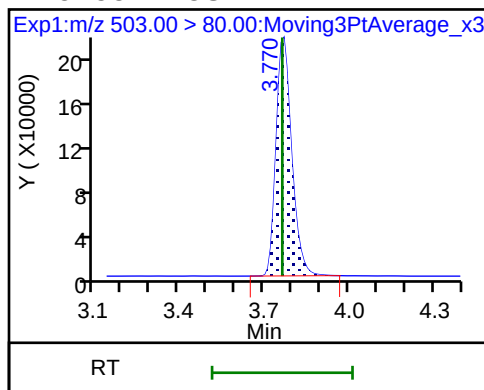




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

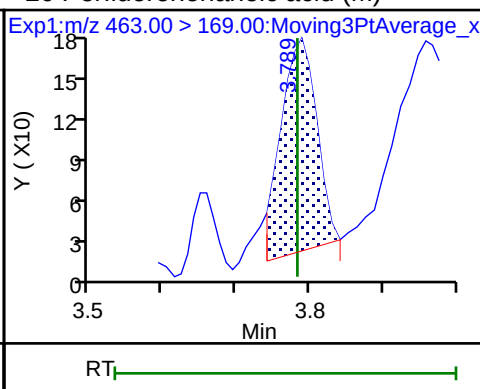
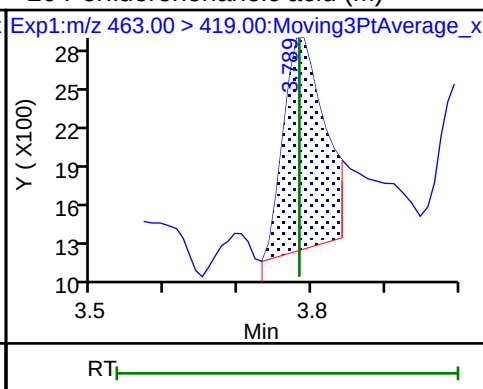
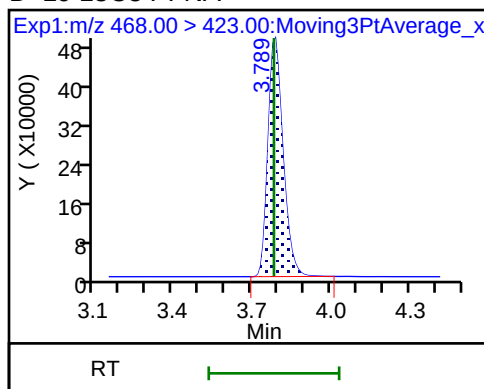
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

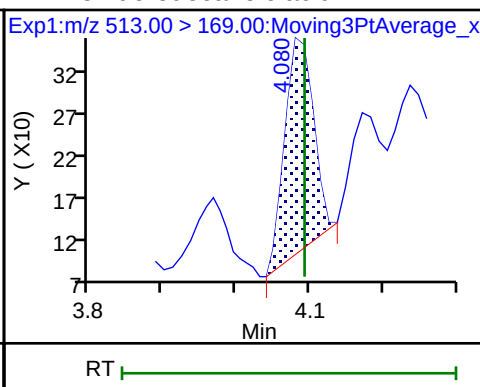
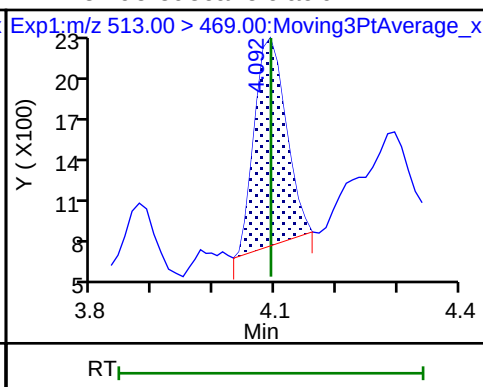
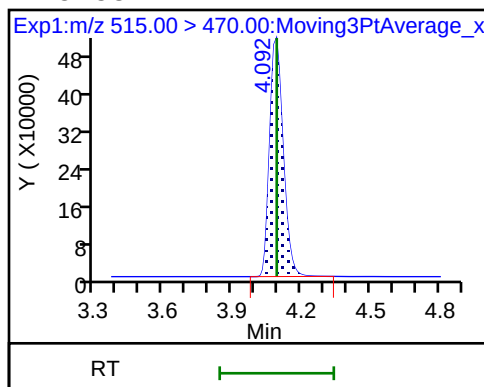
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid

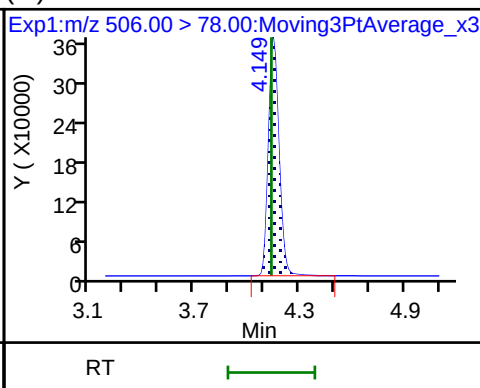
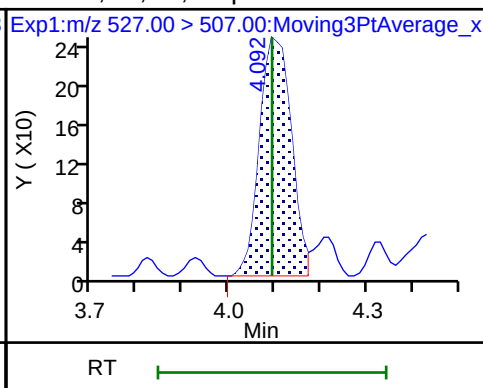
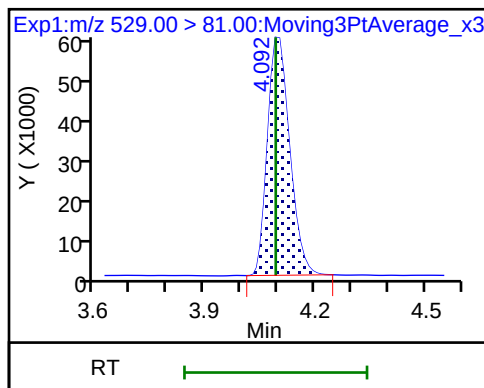
24 Perfluorodecanoic acid

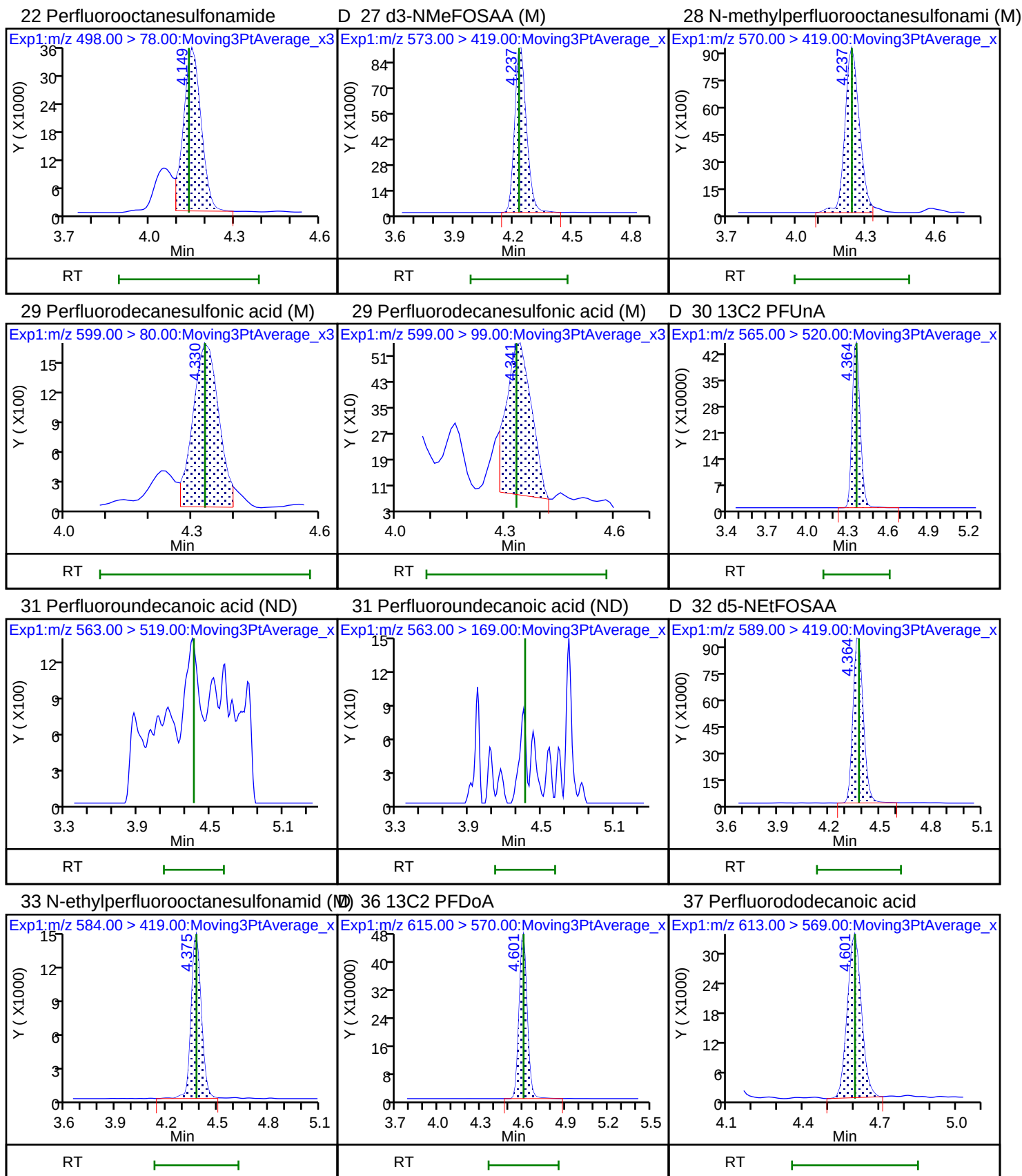


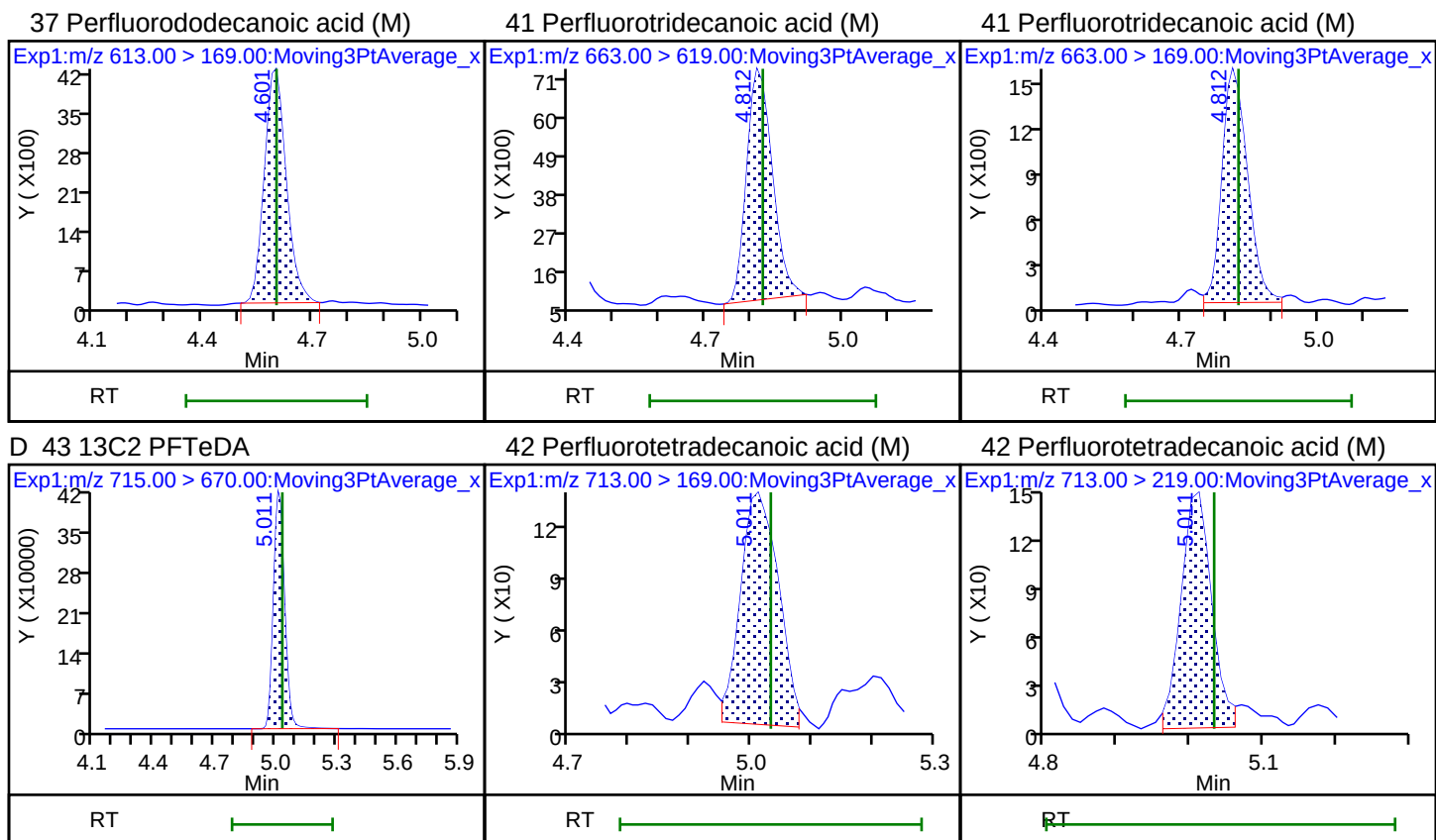
D 26 M2-8:2 FTS

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

21 13C8 FOSA







Eurofins Burlington

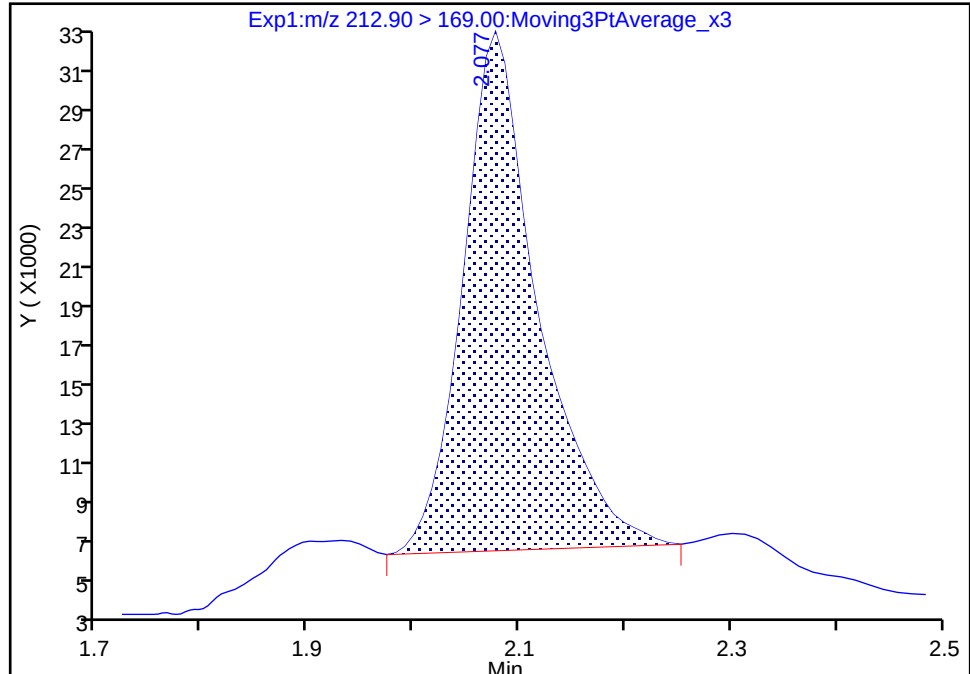
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

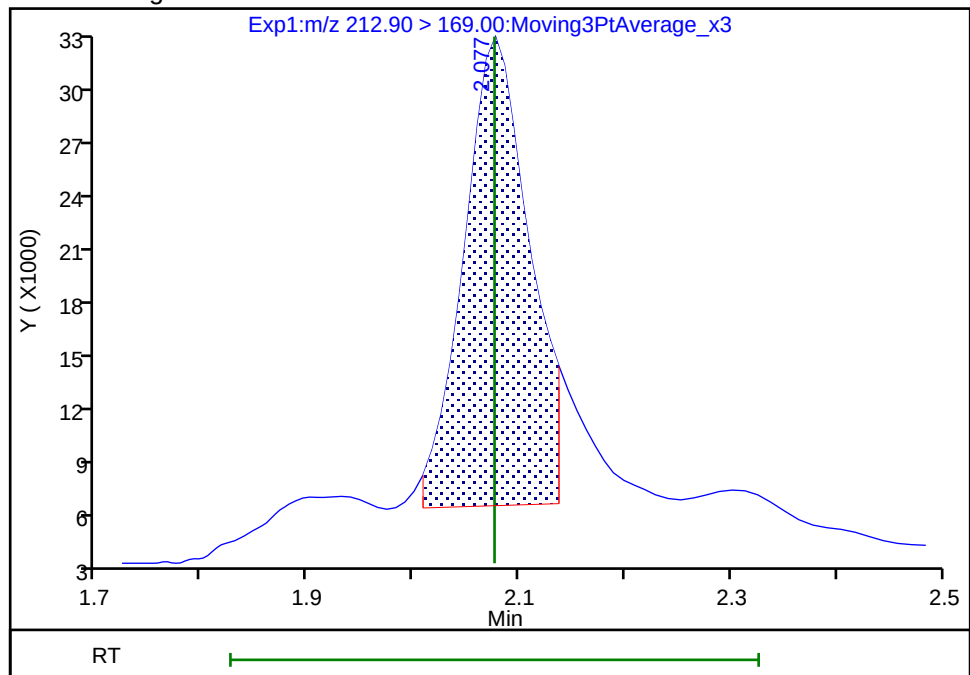
RT: 2.08
Area: 126435
Amount: 0.075108
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 109914
Amount: 0.065293
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:40:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

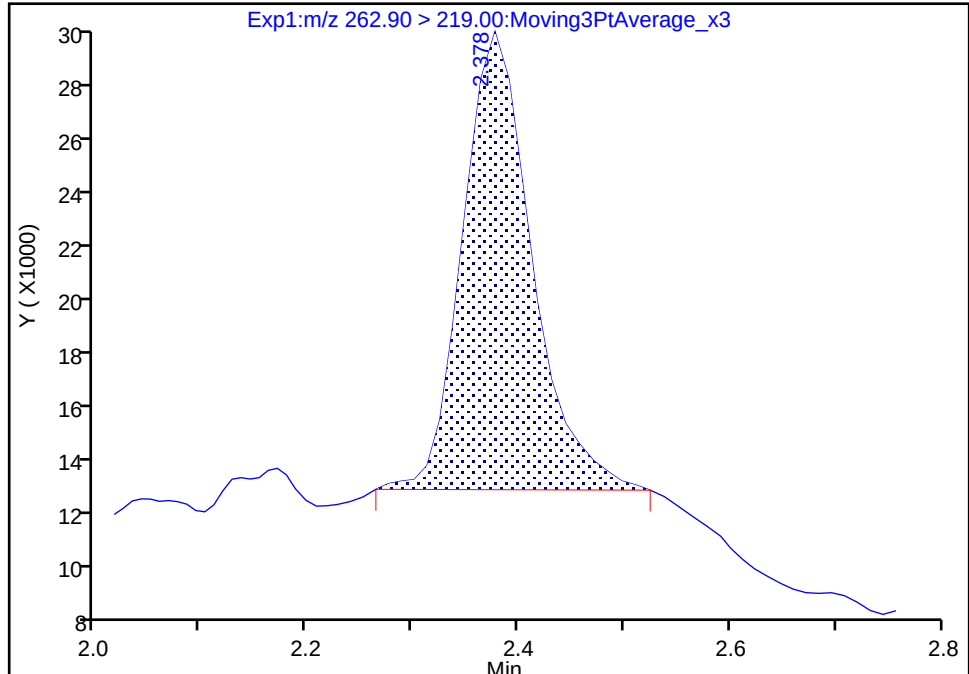
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

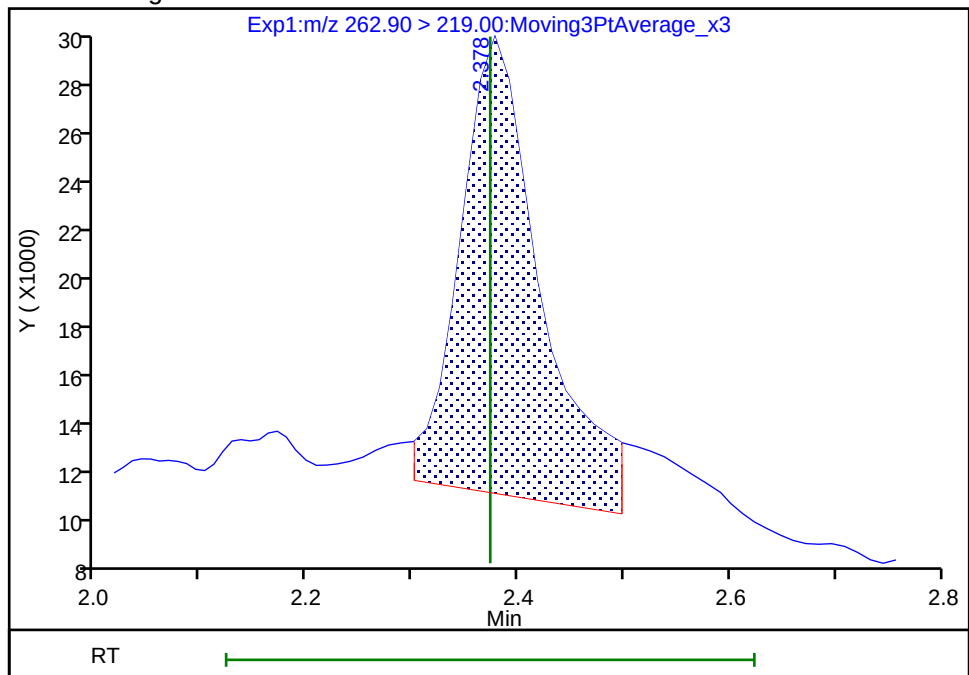
RT: 2.38
Area: 74304
Amount: 0.052087
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 95132
Amount: 0.066688
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

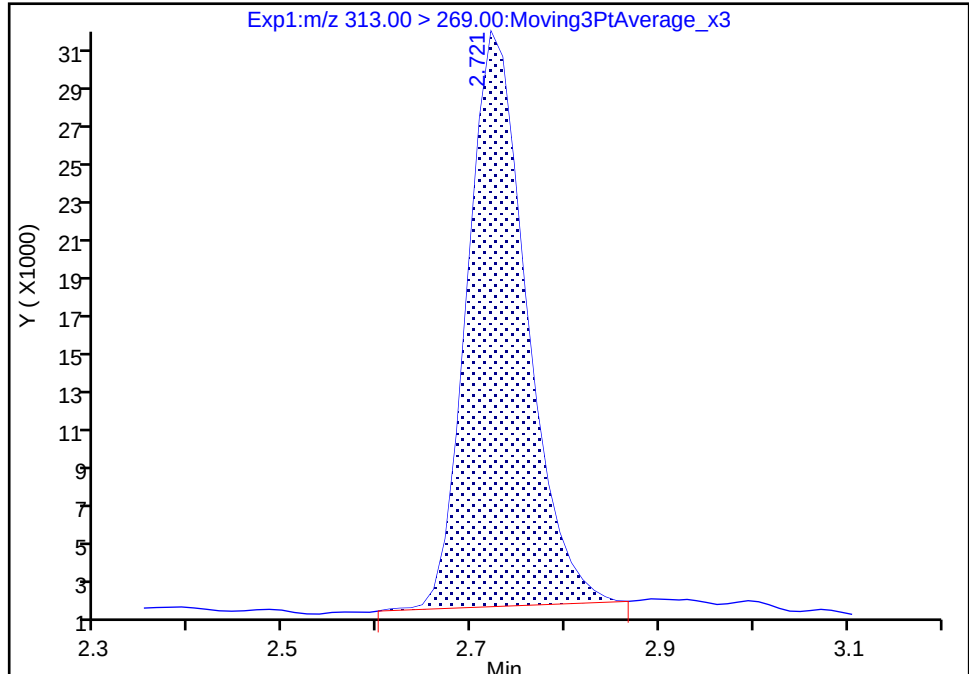
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

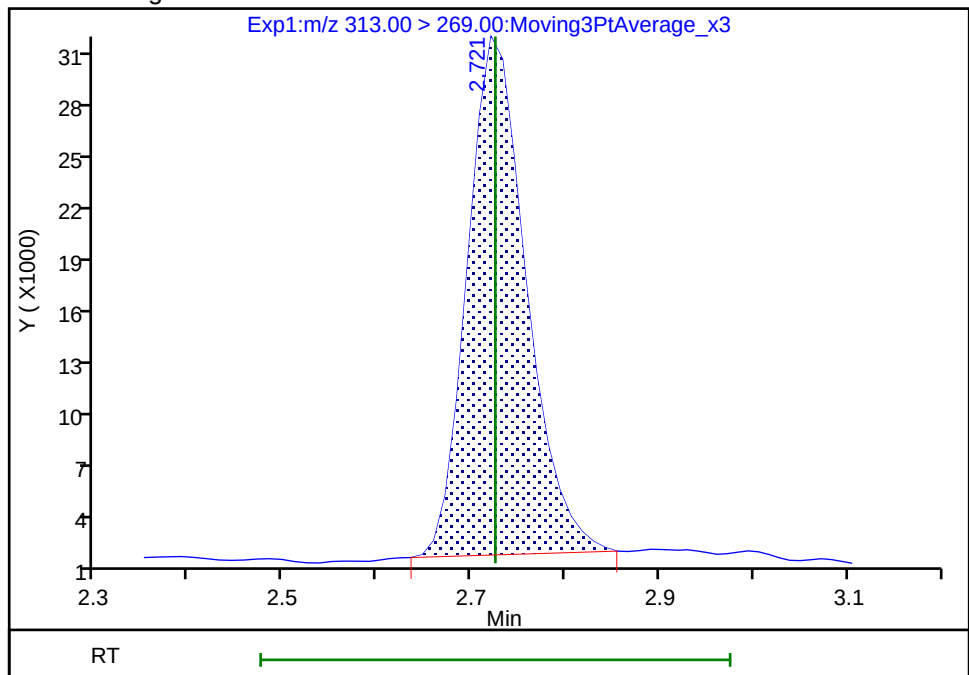
RT: 2.72
Area: 128936
Amount: 0.082457
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 127911
Amount: 0.081802
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

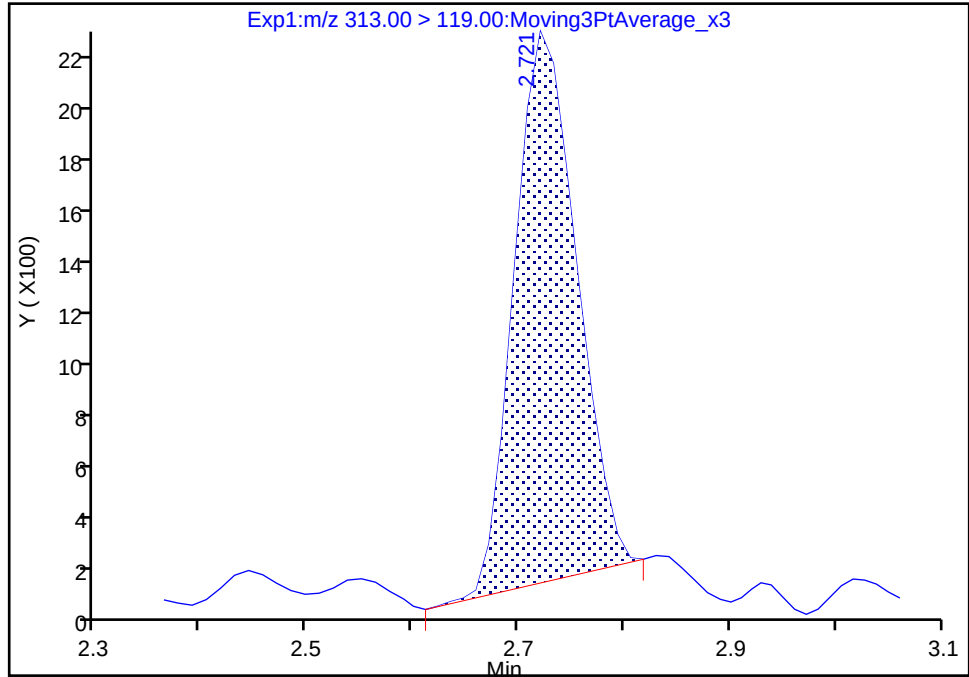
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

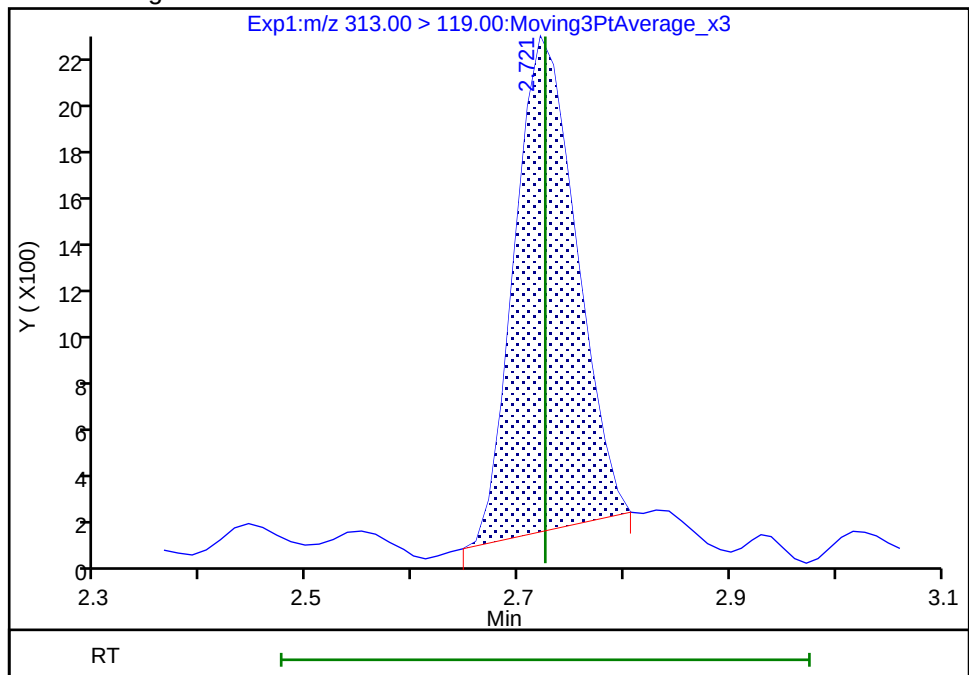
RT: 2.72
Area: 8452
Amount: 0.082457
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 8315
Amount: 0.081802
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 83 of 97811/21/2022
4:10 PM

Eurofins Burlington

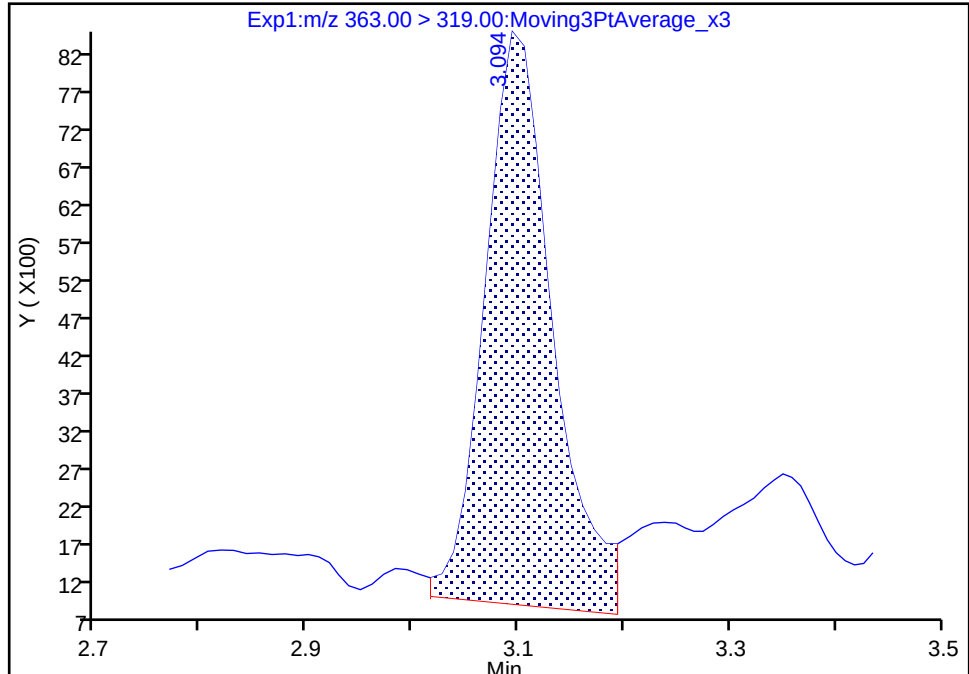
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

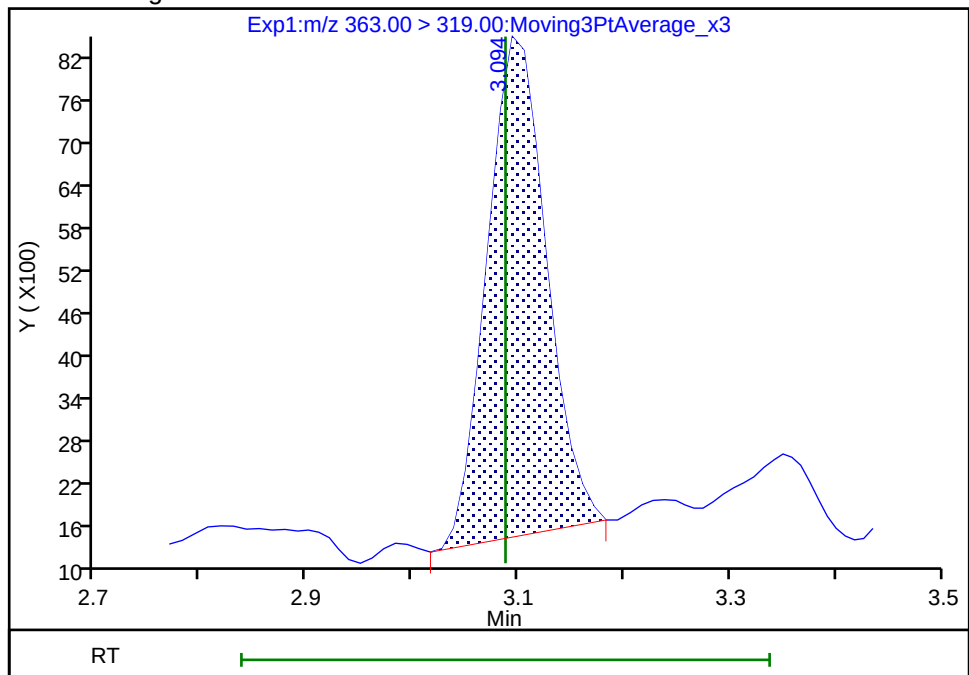
RT: 3.09
Area: 33918
Amount: 0.021371
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 27452
Amount: 0.017297
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:45:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

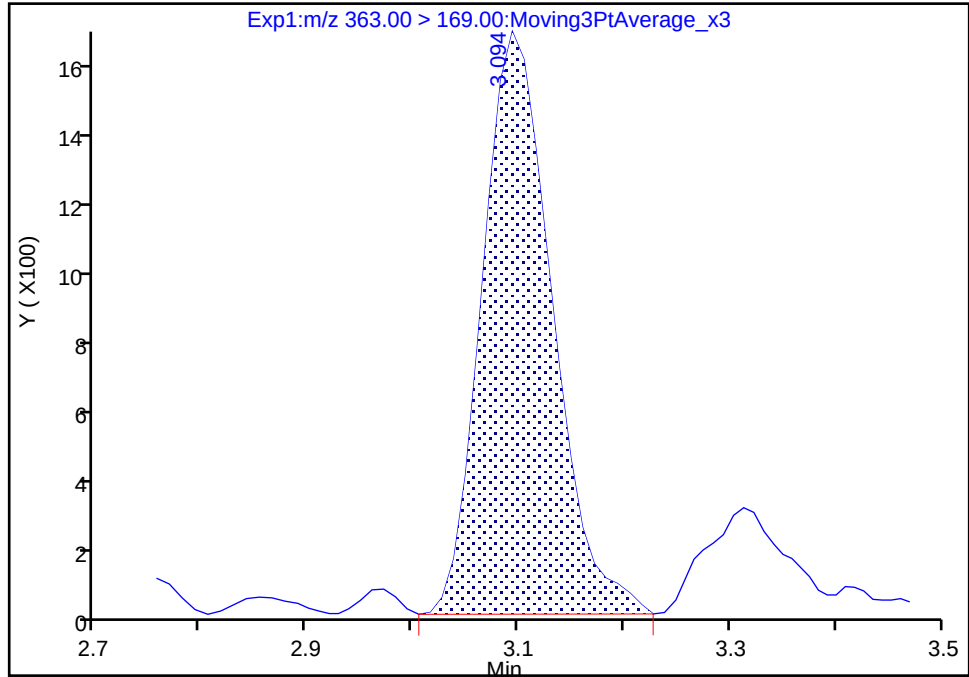
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

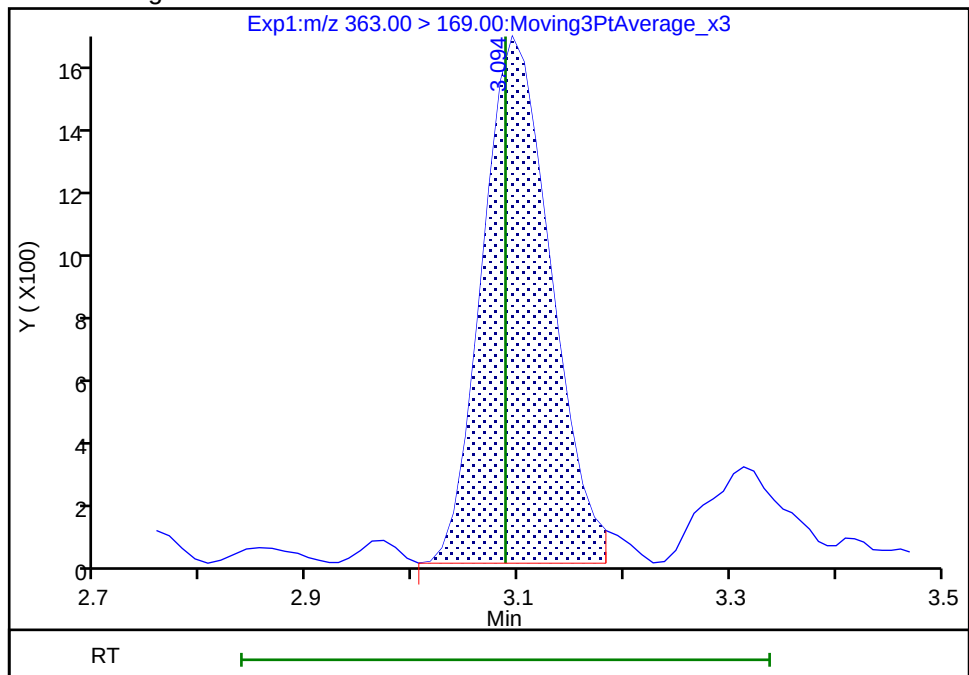
RT: 3.09
Area: 7333
Amount: 0.021371
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 7193
Amount: 0.017297
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:45:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 85 of 97811/21/2022
4:10 PM

Eurofins Burlington

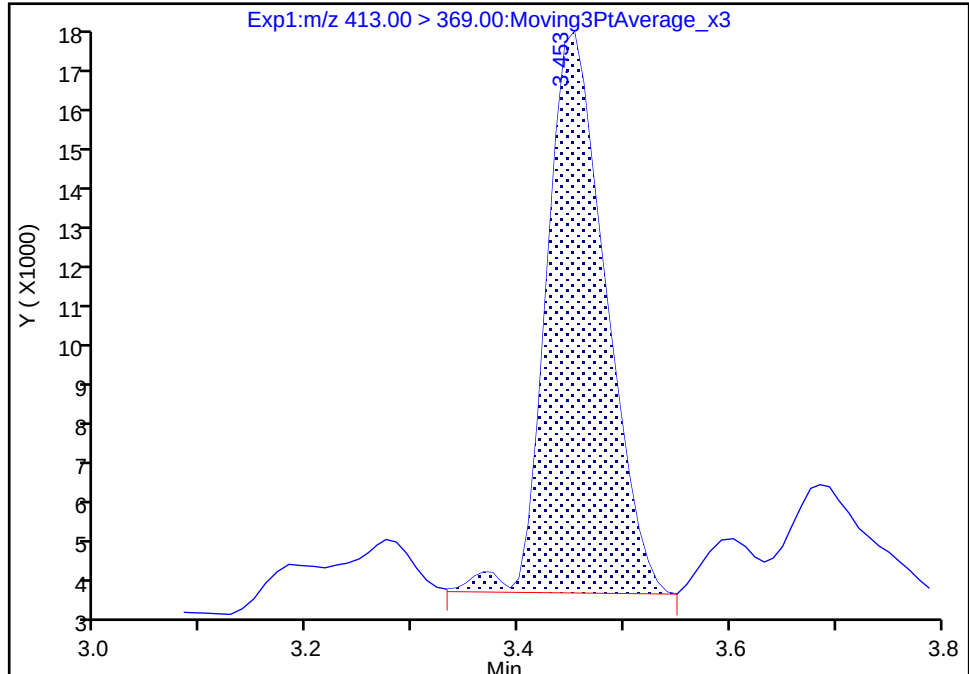
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

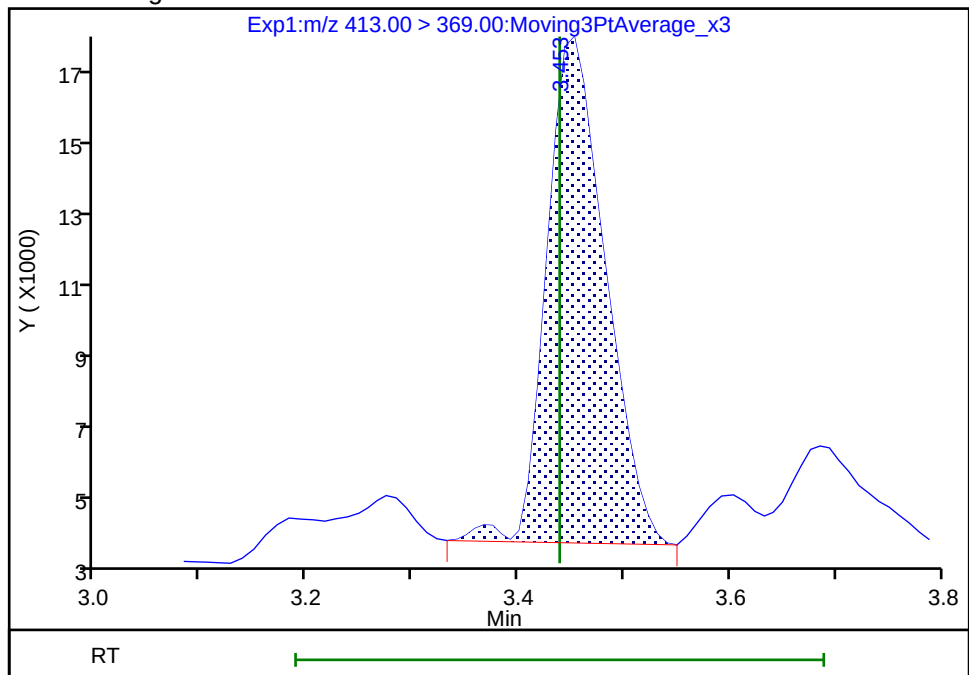
RT: 3.45
Area: 53010
Amount: 0.028200
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 52638
Amount: 0.028002
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:45:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

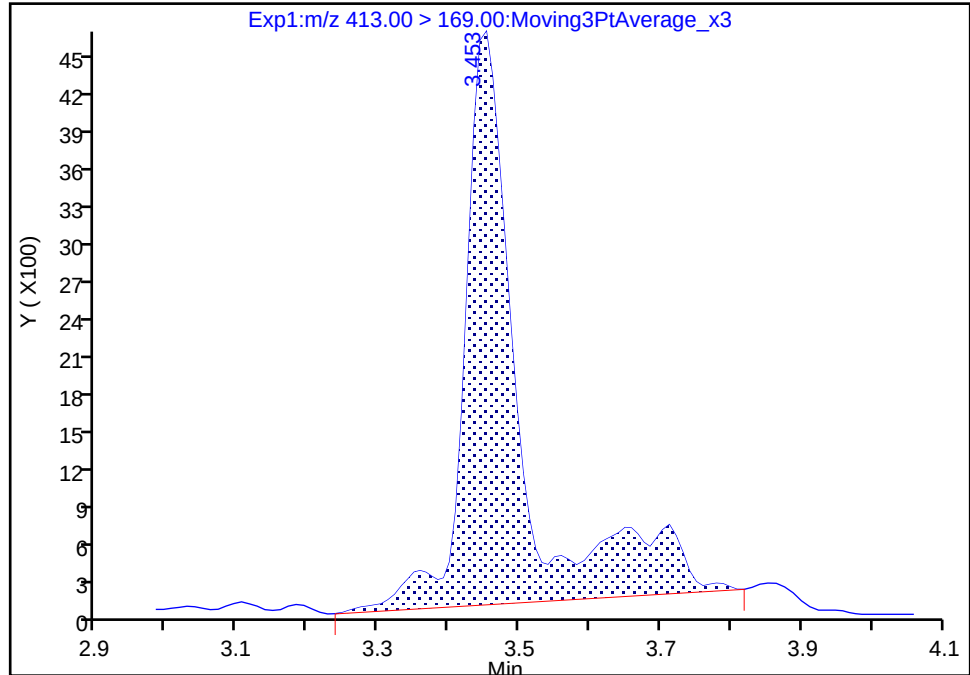
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

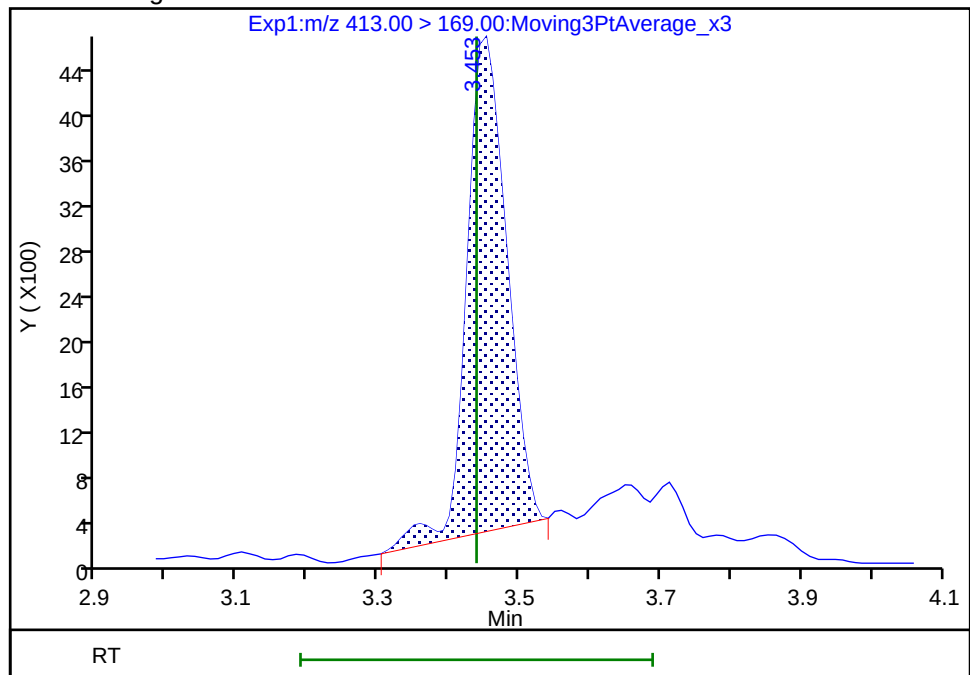
RT: 3.45
Area: 24898
Amount: 0.028200
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 17111
Amount: 0.028002
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:45:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 87 of 97811/21/2022
4:10 PM

Eurofins Burlington

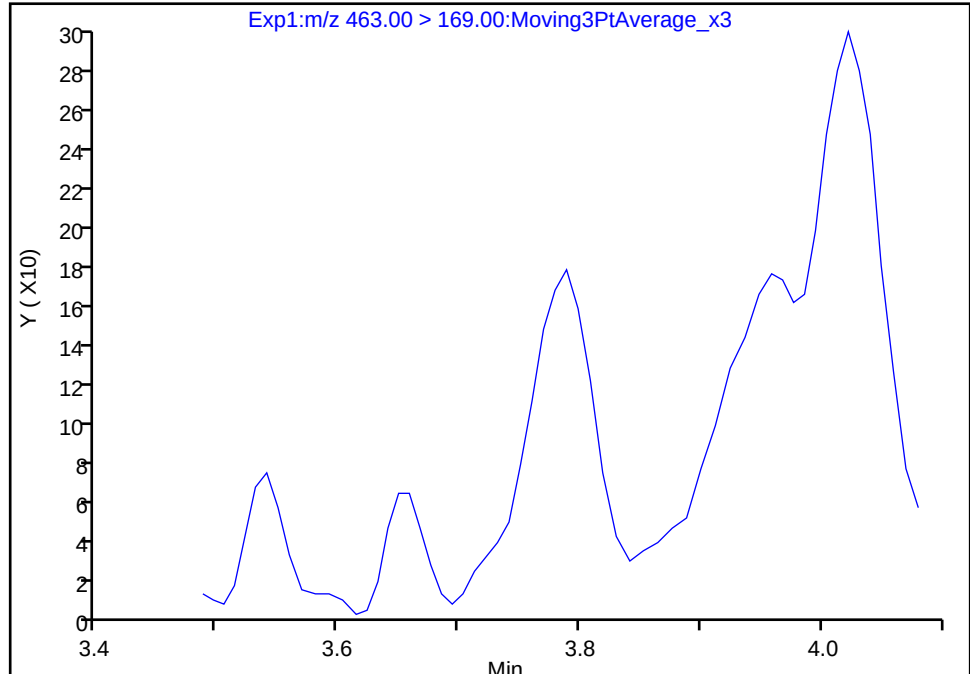
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

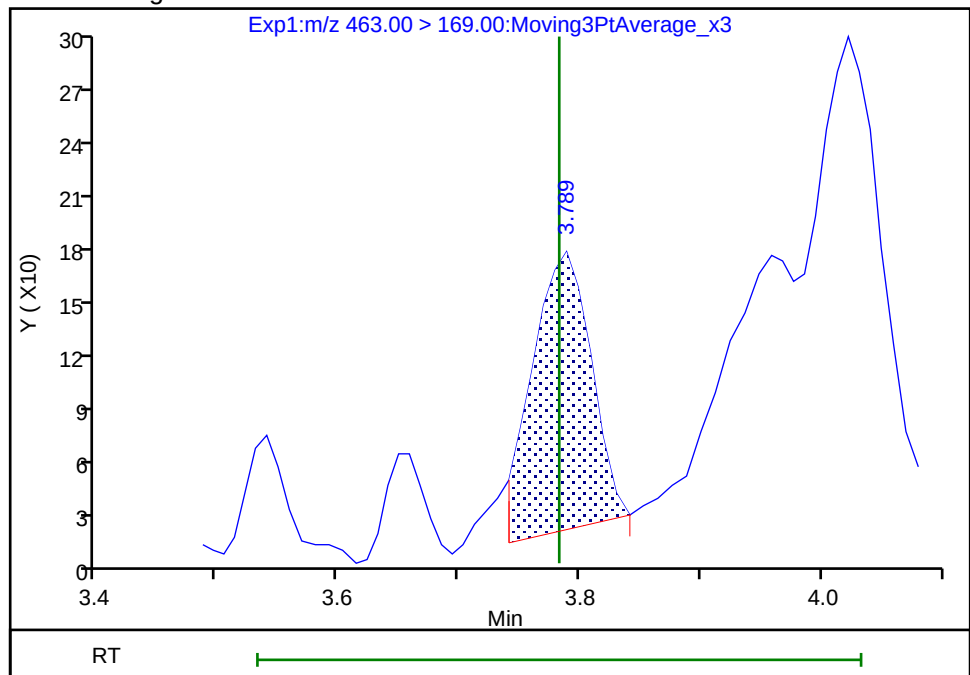
Signal: 2

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.79
Area: 505
Amount: 0.003569
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:46:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

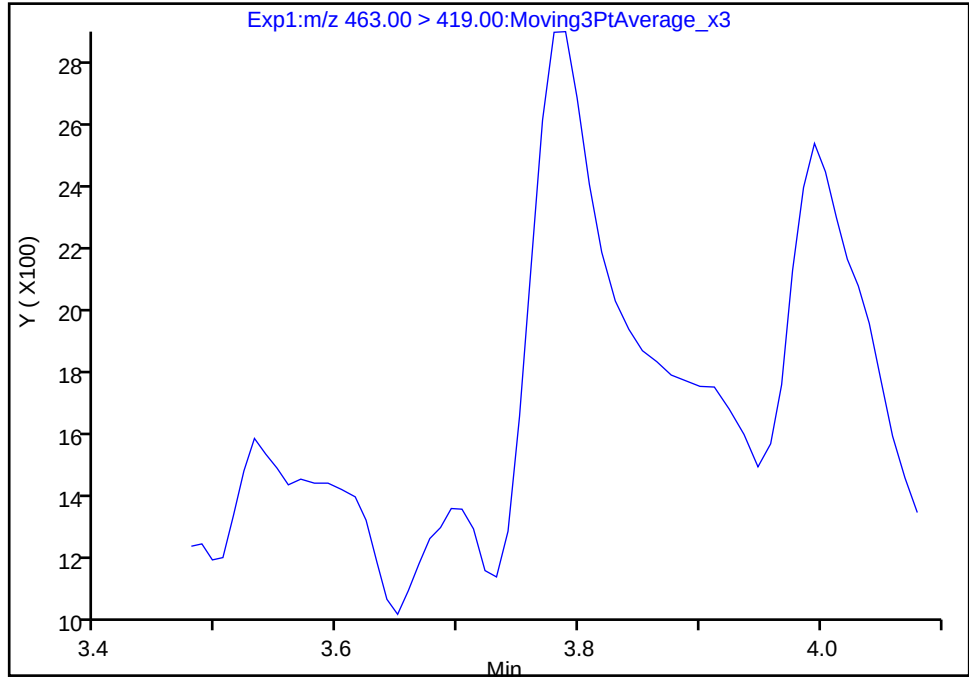
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

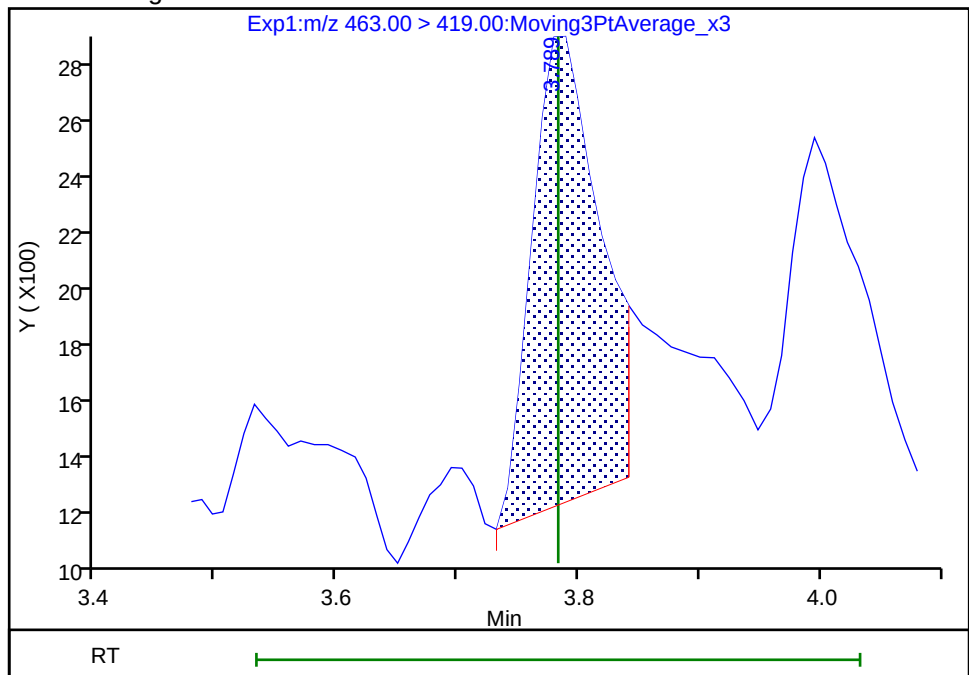
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 5970
Amount: 0.003569
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:46:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 89 of 978

11/21/2022
4:10 PM

Eurofins Burlington

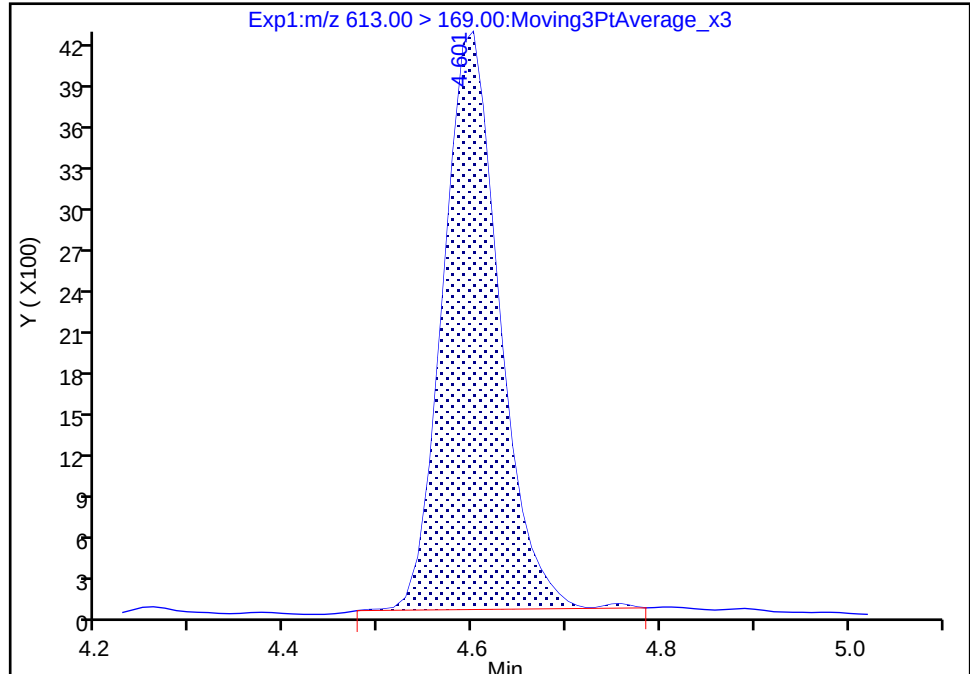
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

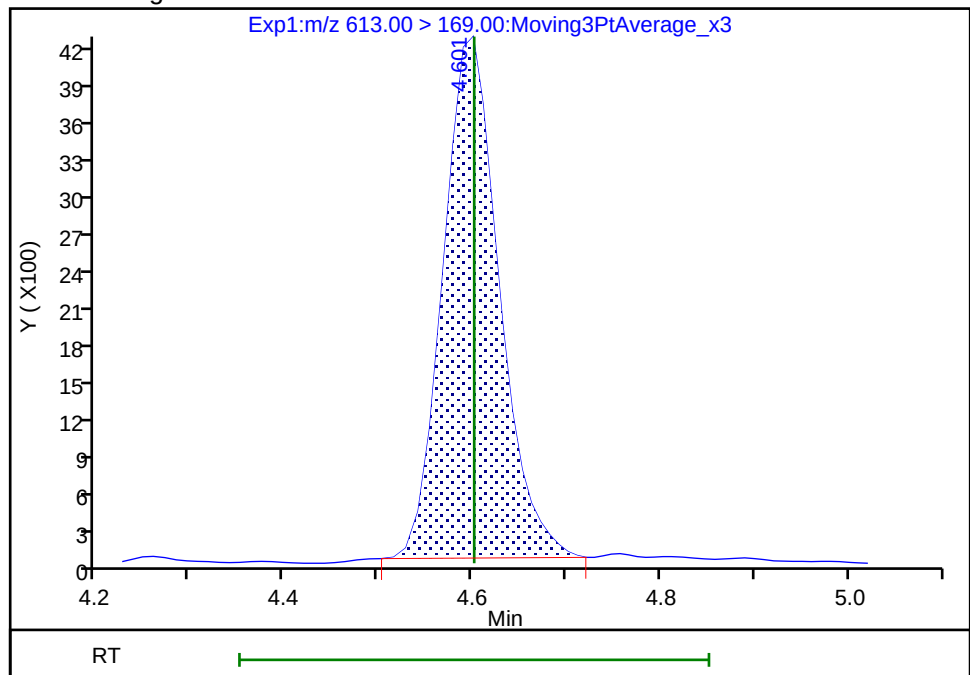
RT: 4.60
Area: 17407
Amount: 0.079317
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 17257
Amount: 0.079317
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:47:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

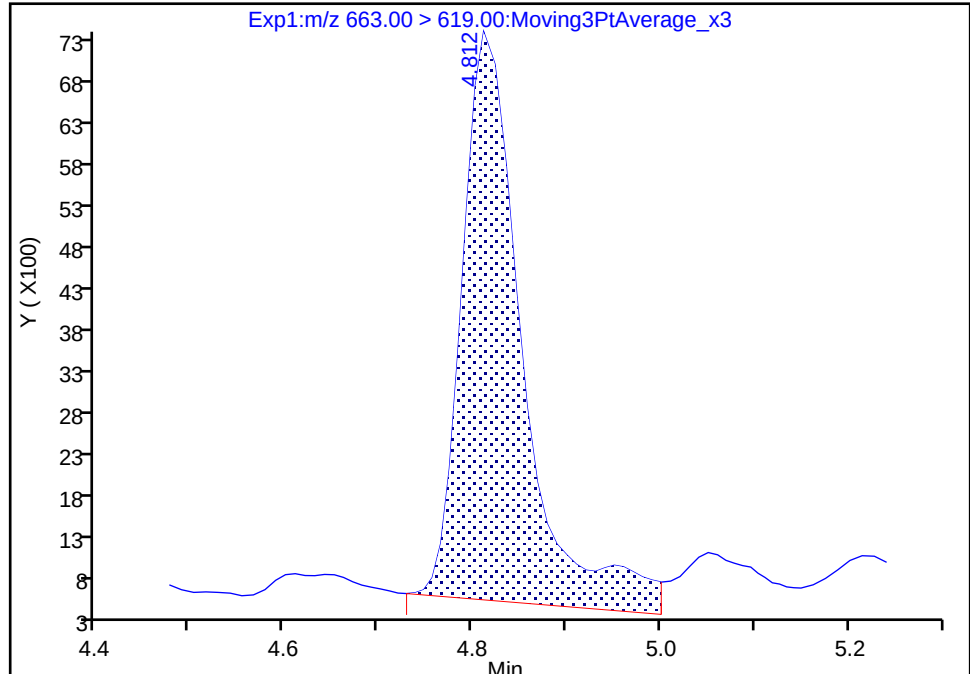
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

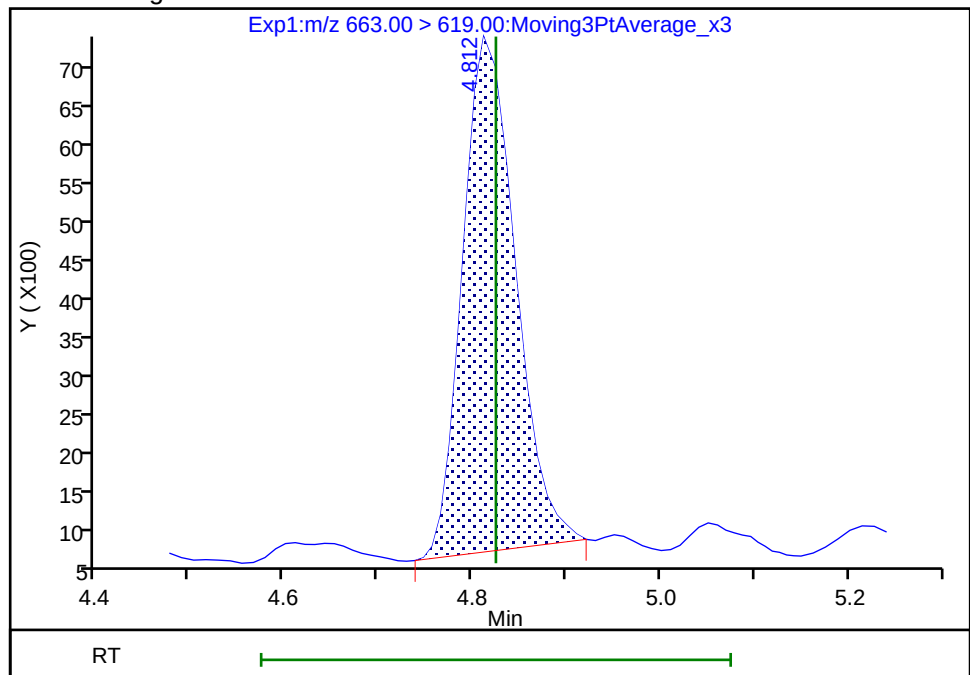
RT: 4.81
Area: 30593
Amount: 0.021029
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 25749
Amount: 0.017699
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:47:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

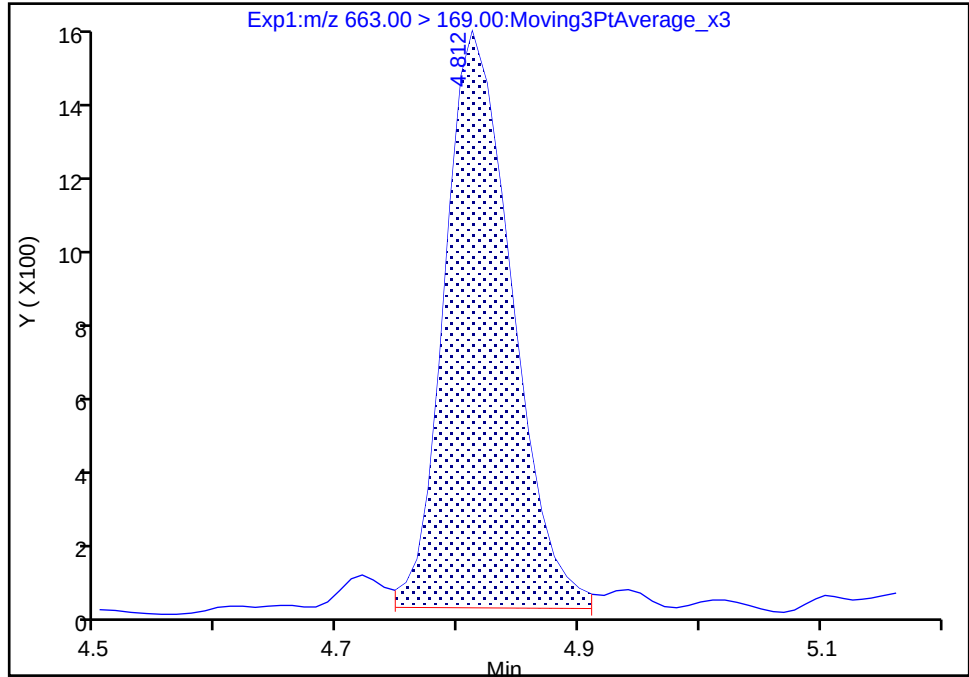
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

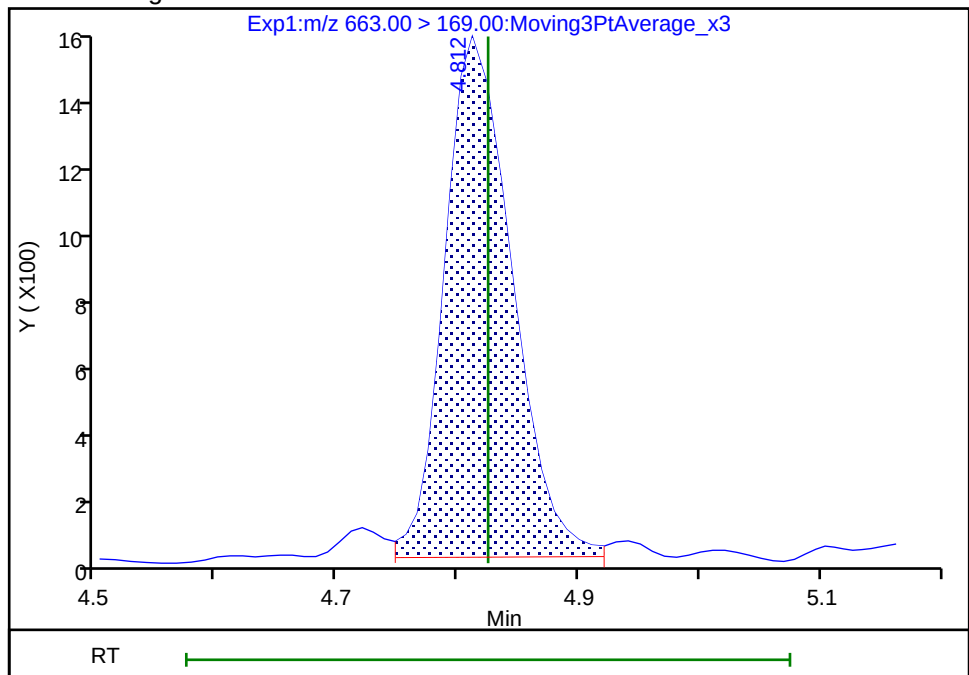
RT: 4.81
Area: 5789
Amount: 0.021029
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 5800
Amount: 0.017699
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 18:12:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 92 of 97811/21/2022
4:10 PM

Eurofins Burlington

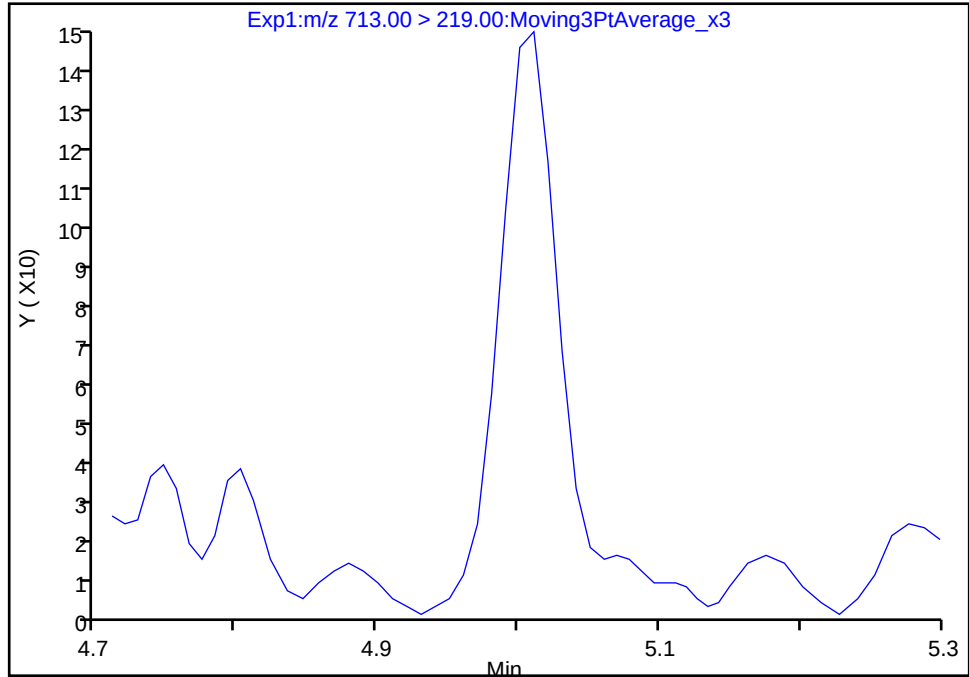
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

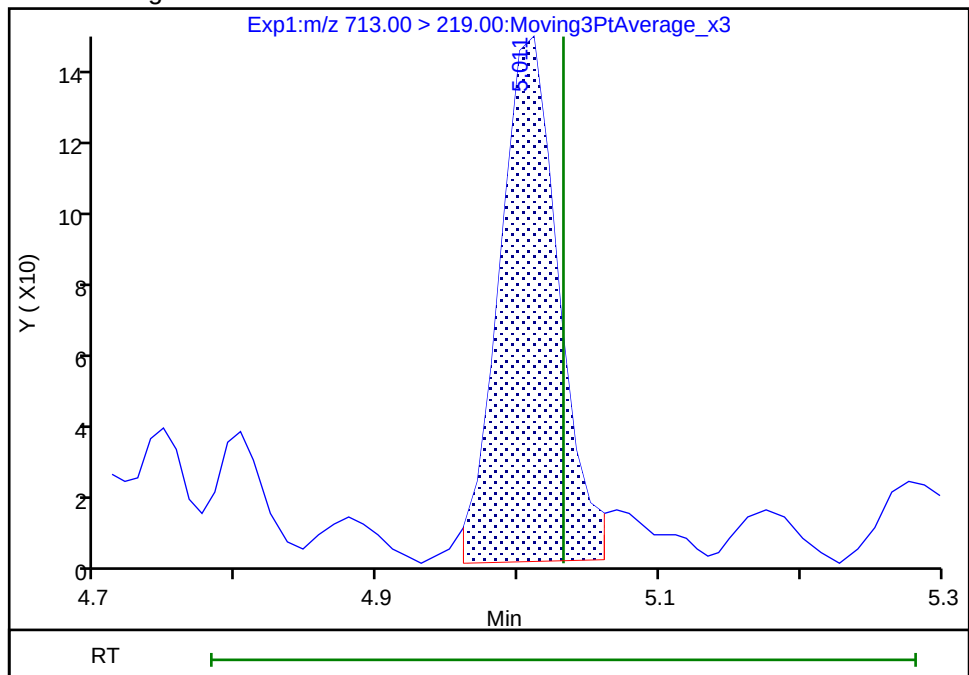
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 426
Amount: 0.002987
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:47:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

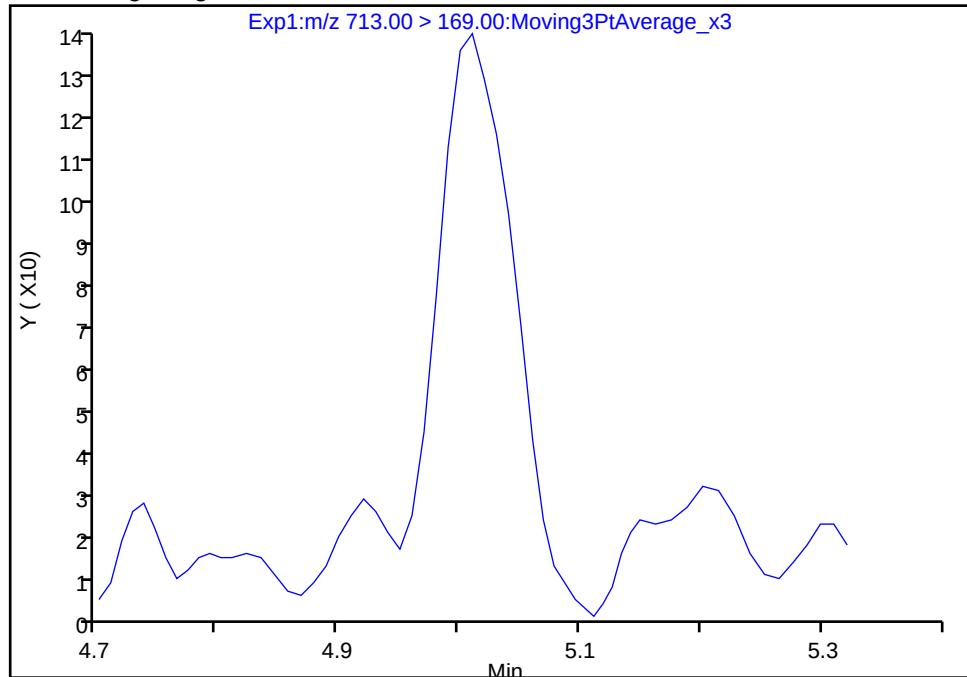
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

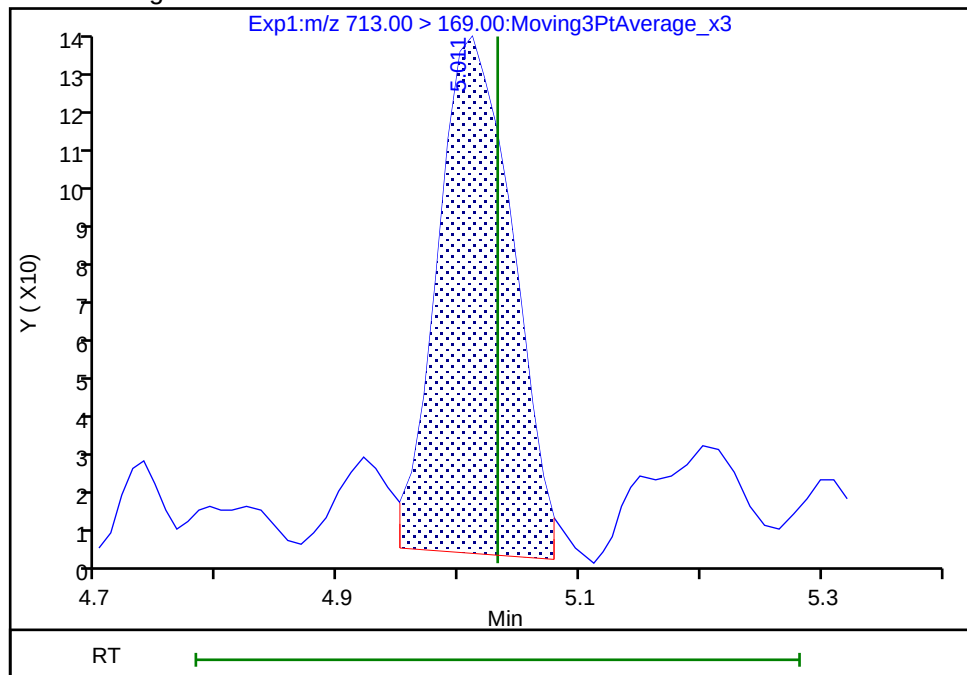
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 588
Amount: 0.002987
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:47:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 94 of 978

11/21/2022
4:10 PM

Eurofins Burlington

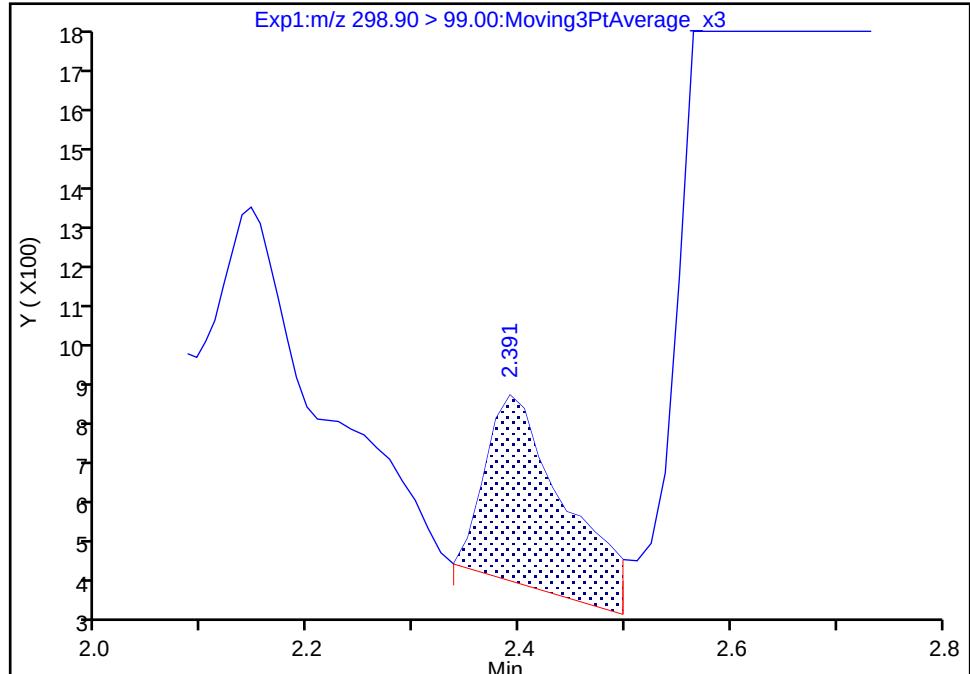
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

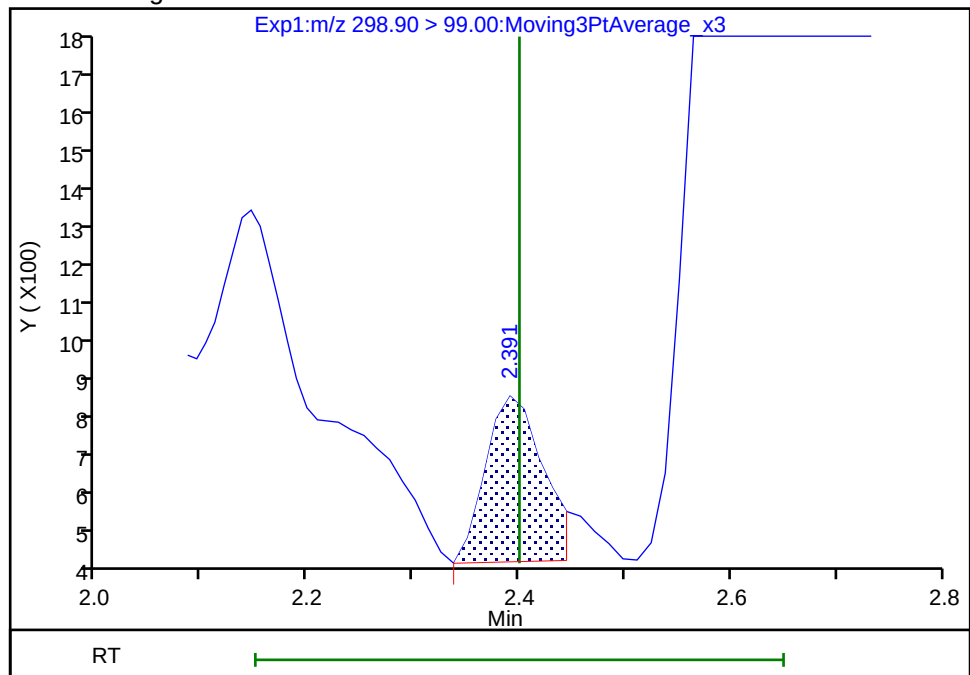
RT: 2.39
Area: 2399
Amount: 0.001678
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1528
Amount: 0.001581
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

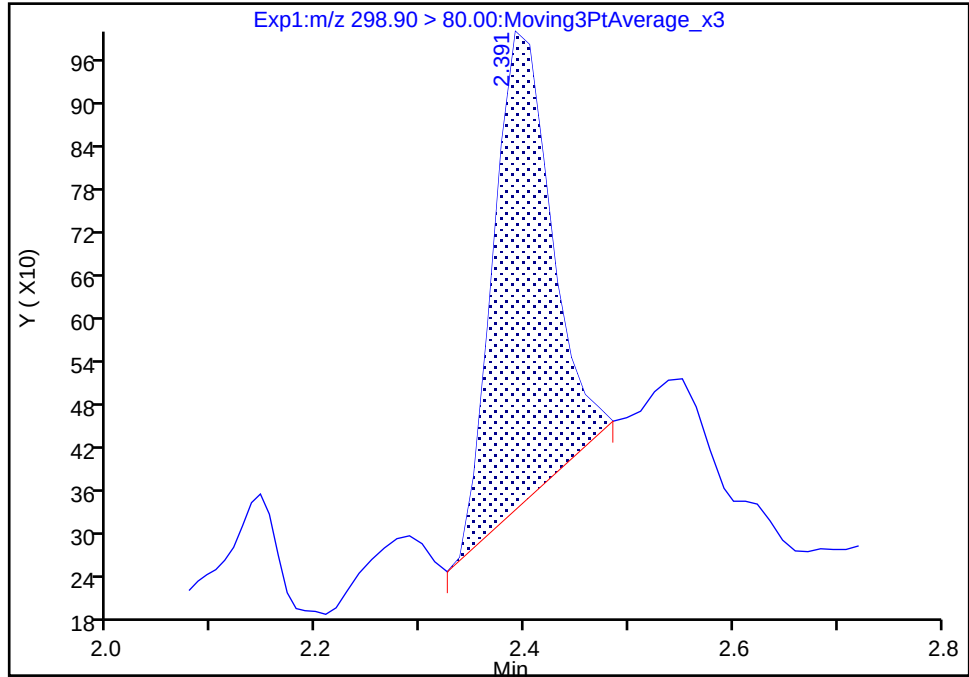
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

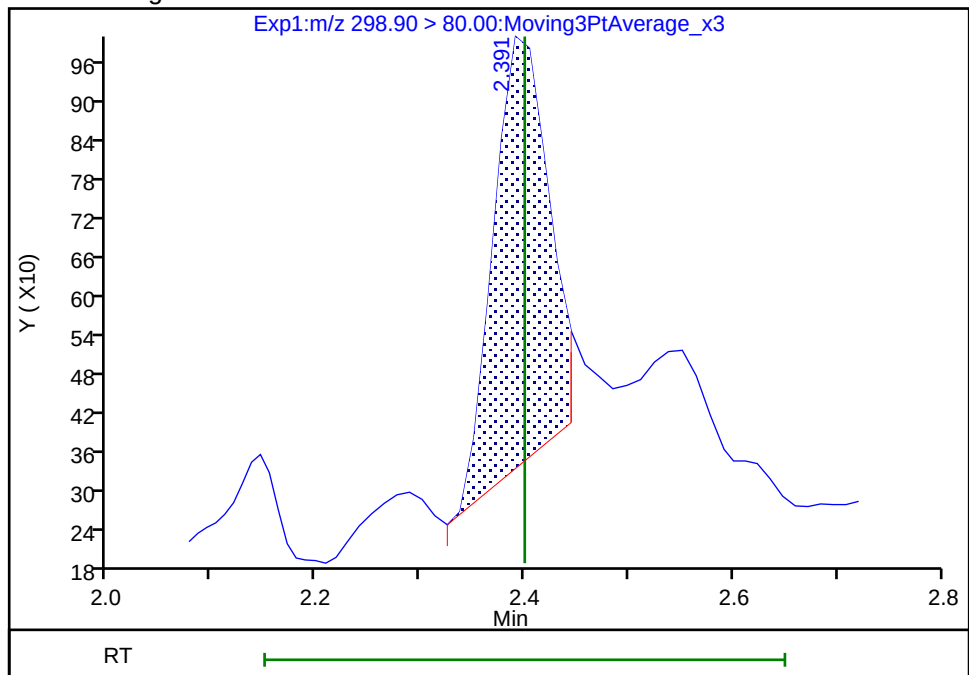
RT: 2.39
Area: 2550
Amount: 0.001678
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 2403
Amount: 0.001581
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 96 of 97811/21/2022
4:10 PM

Eurofins Burlington

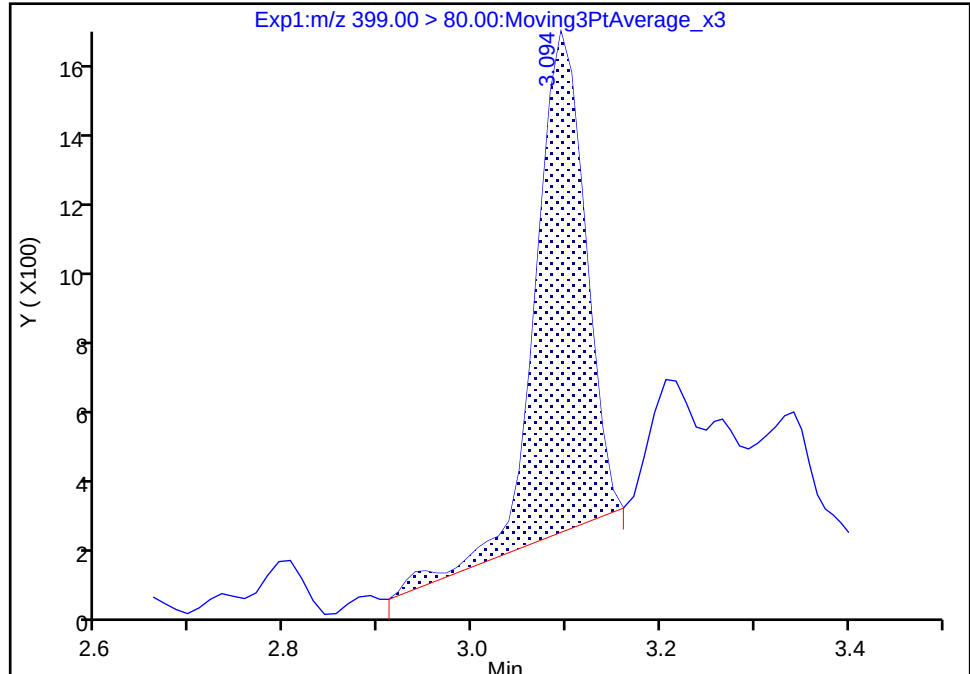
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

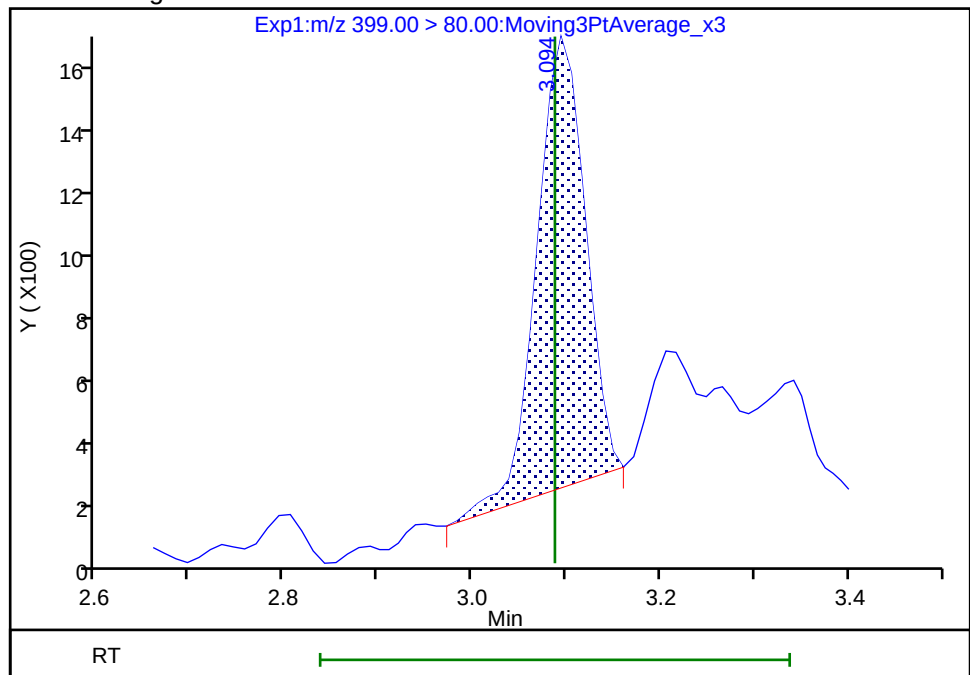
RT: 3.09
Area: 4901
Amount: 0.004390
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 4756
Amount: 0.004260
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:44:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

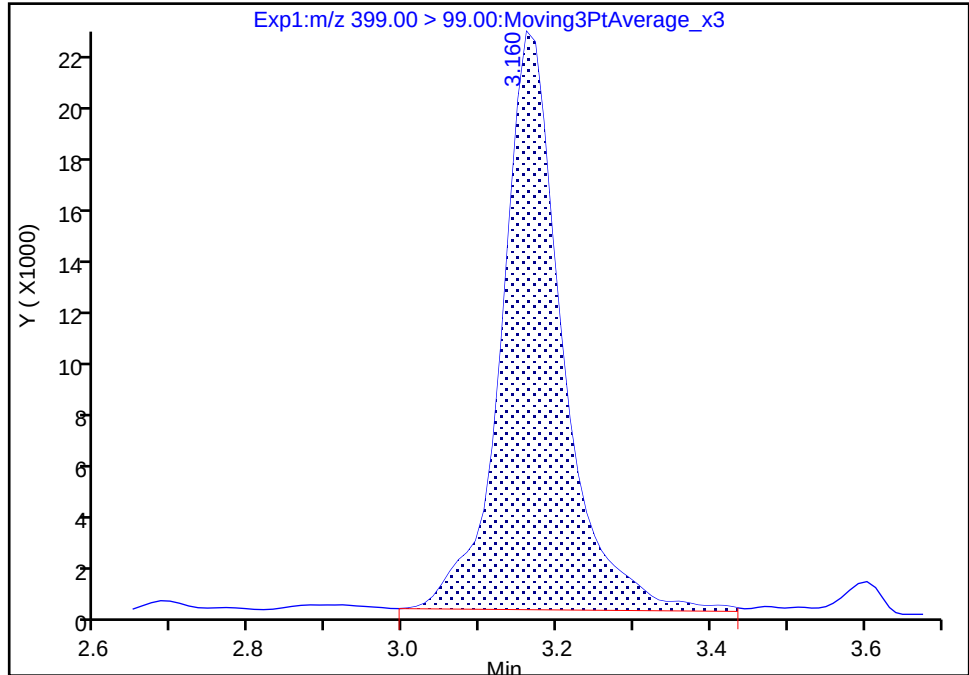
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

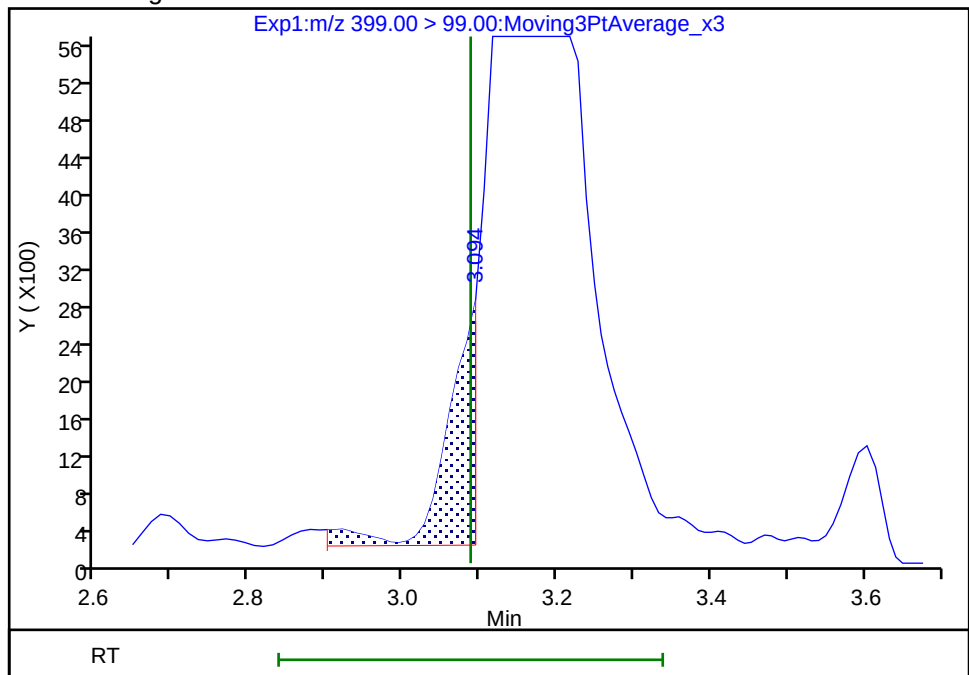
RT: 3.16
Area: 123126
Amount: 0.004390
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 6467
Amount: 0.004260
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:45:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 98 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d

Injection Date: 16-Nov-2022 22:07:26

Instrument ID: LC812

Lims ID: 460-269226-A-2-A

Lab Sample ID: 200-269226-2

Client ID: BCS-09-21_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

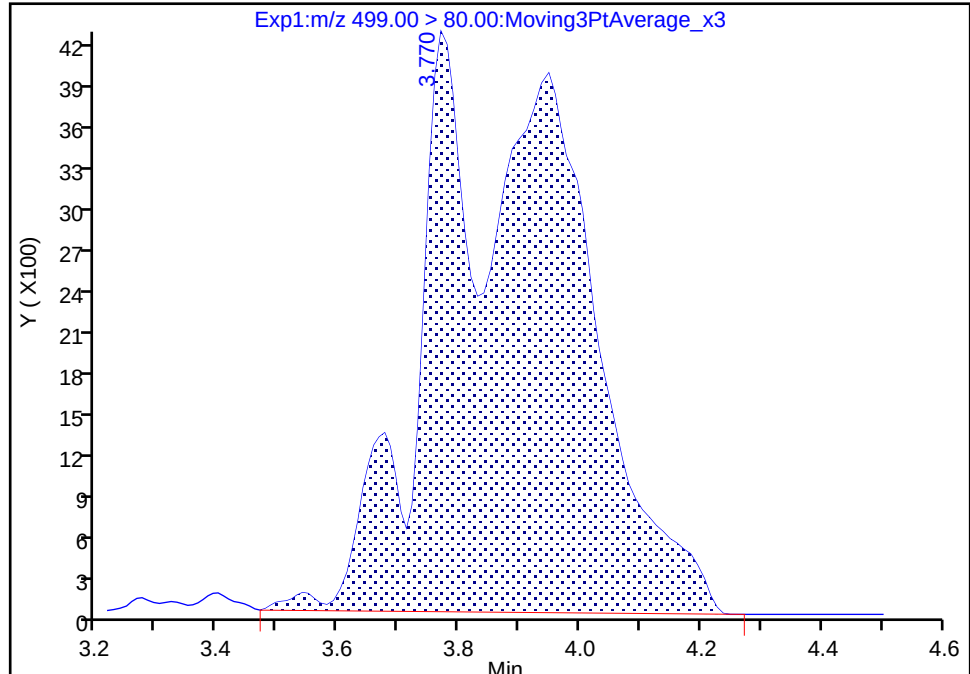
Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

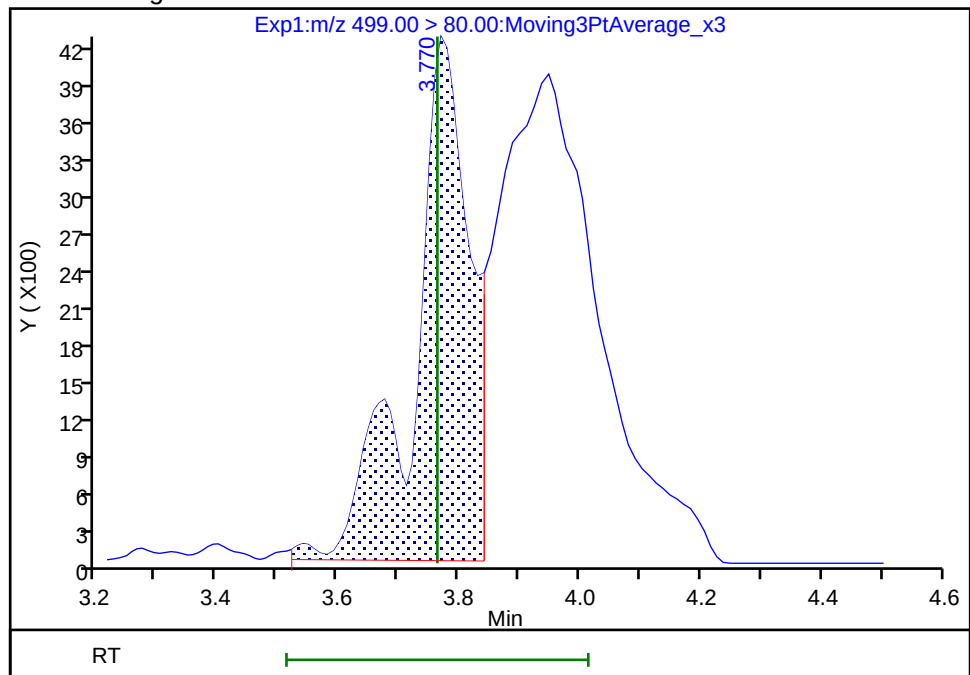
RT: 3.77
Area: 72948
Amount: 0.089183
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 27382
Amount: 0.033476
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:46:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

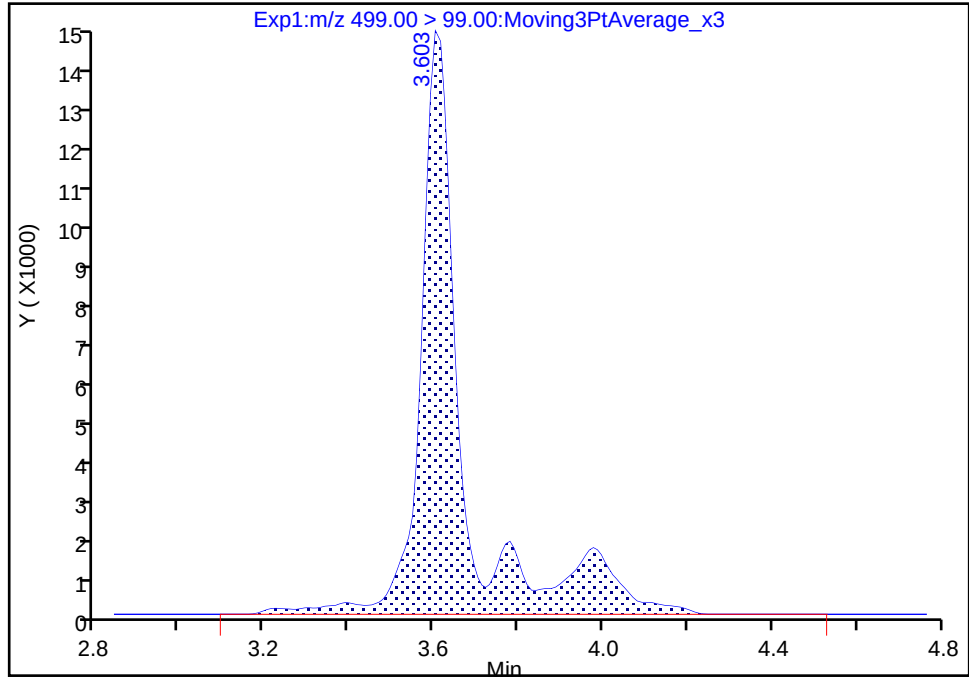
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

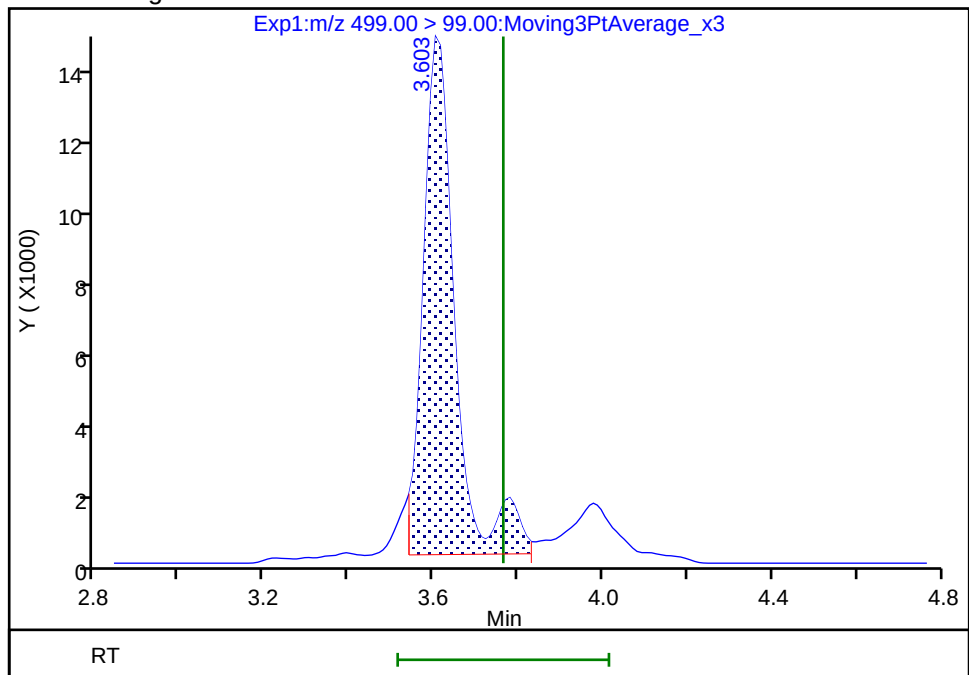
RT: 3.60
Area: 99512
Amount: 0.089183
Amount Units: ng/ml

Processing Integration Results



RT: 3.60
Area: 72754
Amount: 0.033476
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:46:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 100 of 97811/21/2022
4:10 PM

Eurofins Burlington

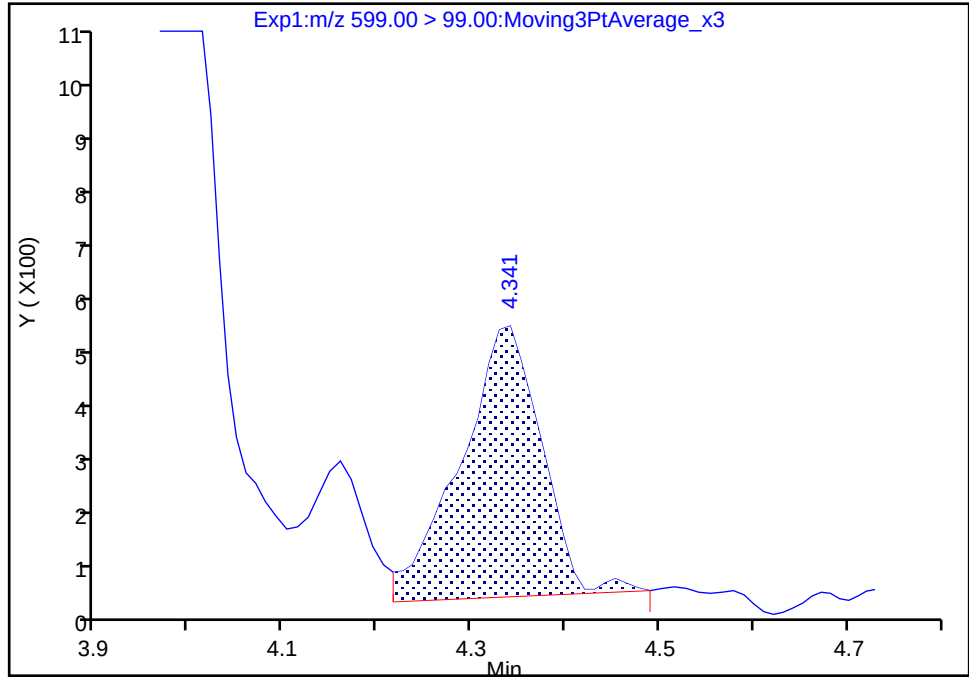
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

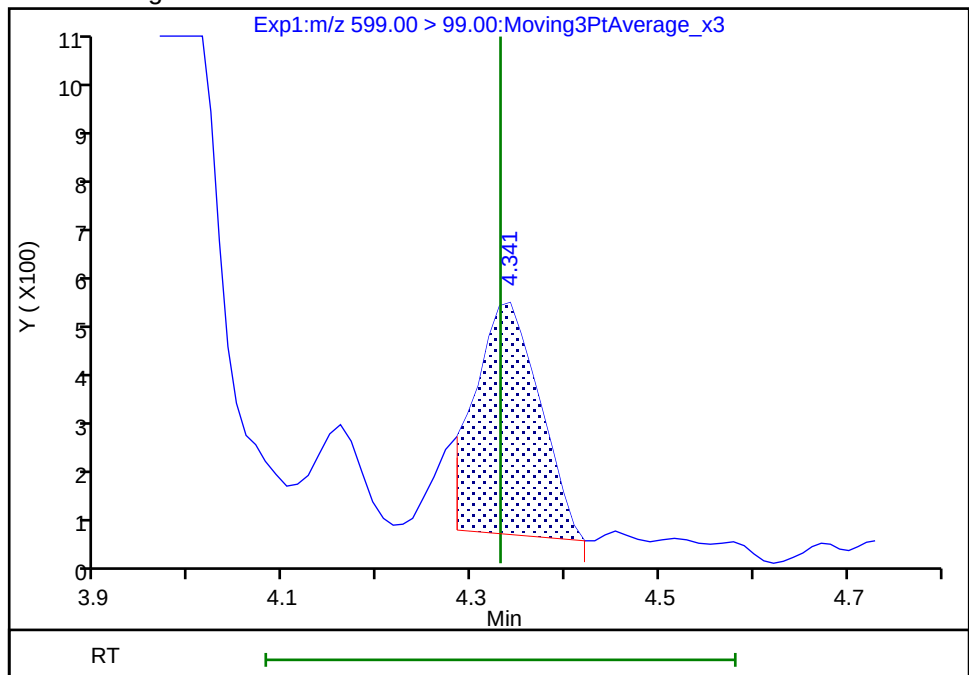
RT: 4.34
Area: 2997
Amount: 0.012460
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 2243
Amount: 0.014983
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:47:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

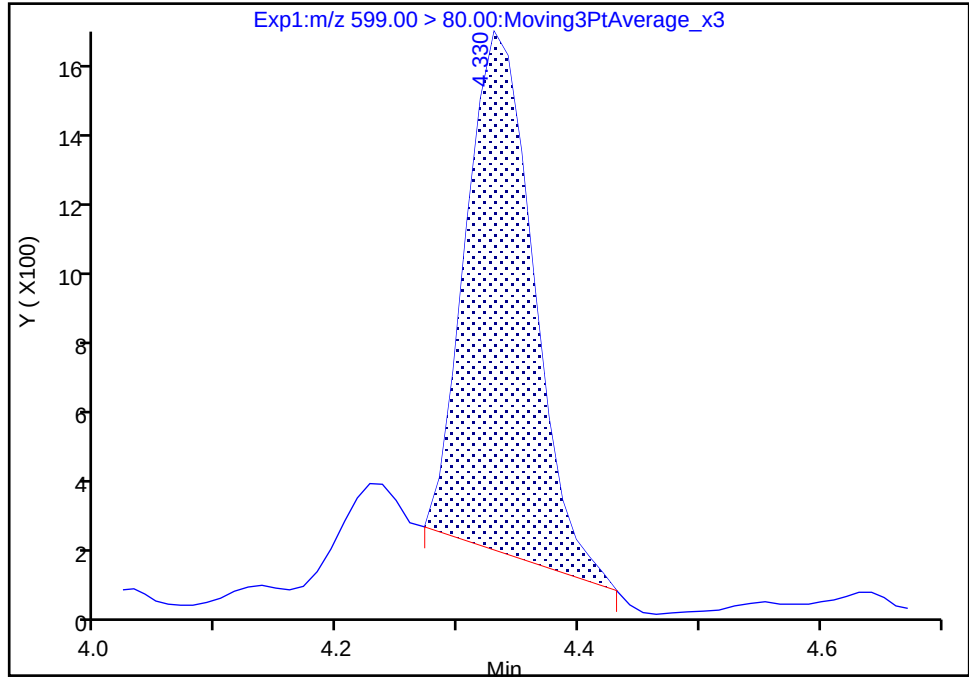
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

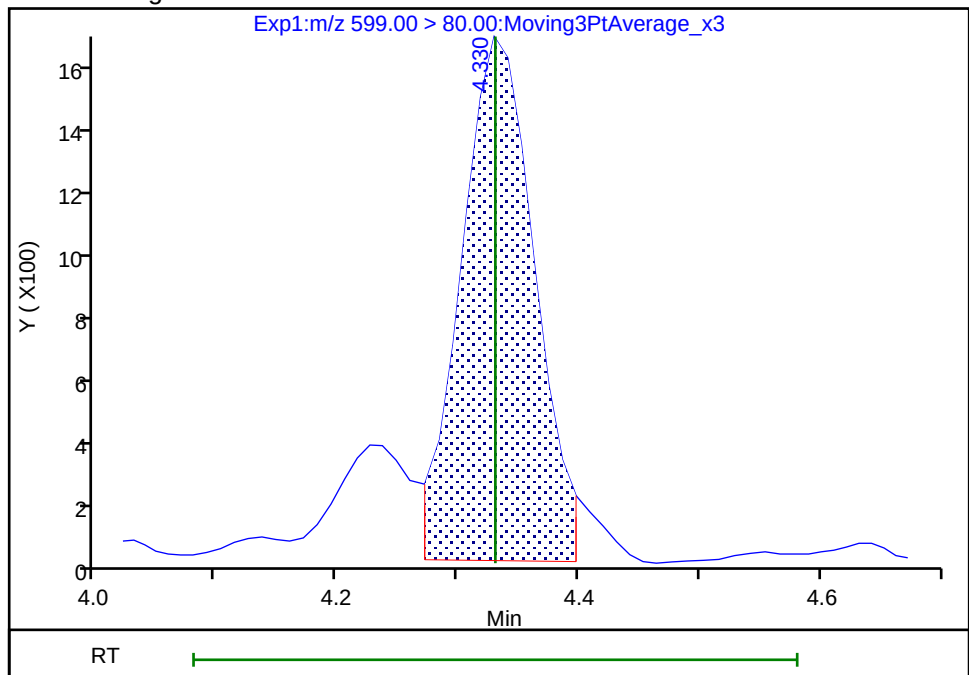
RT: 4.33
Area: 5788
Amount: 0.012460
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 6960
Amount: 0.014983
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 18:11:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

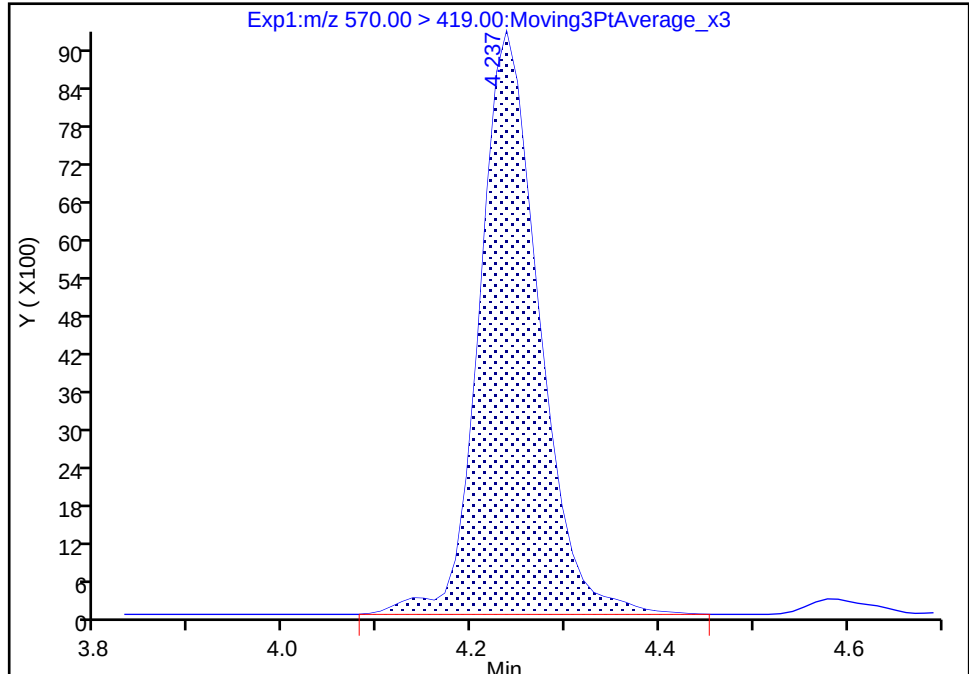
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d		
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2
Client ID:	BCS-09-21_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	16

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

Signal: 1

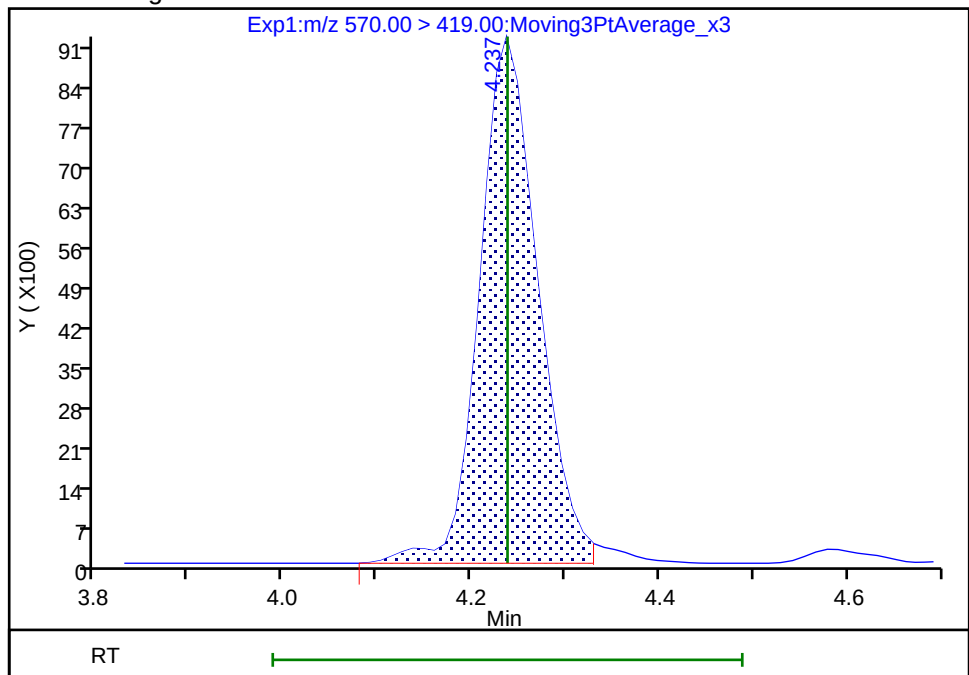
RT: 4.24
Area: 40711
Amount: 0.144748
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 39895
Amount: 0.141846
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:46:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

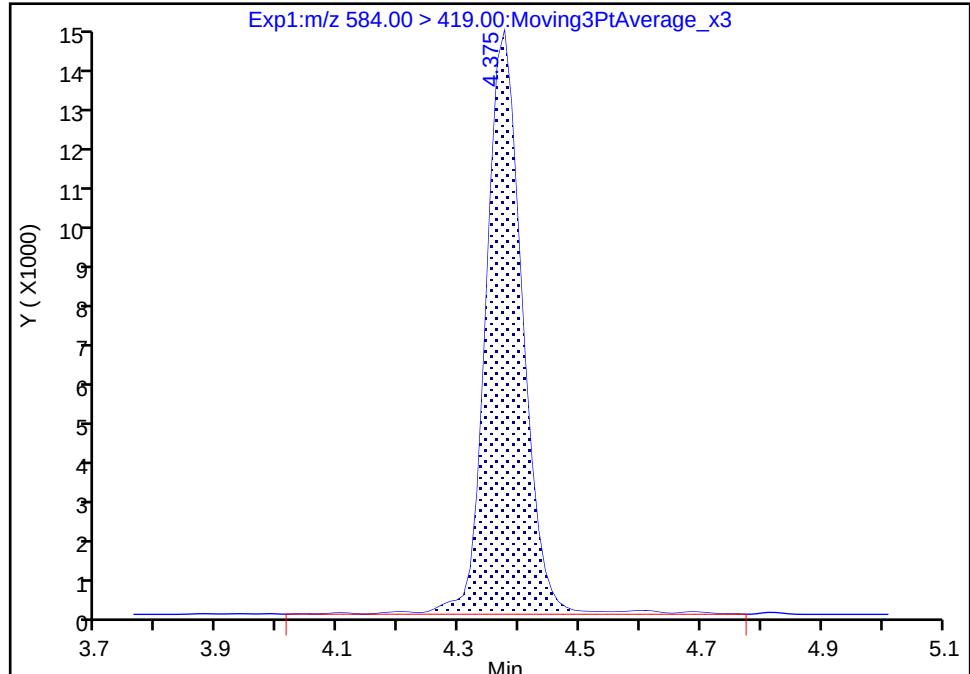
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d				
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812		
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2		
Client ID:	BCS-09-21_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

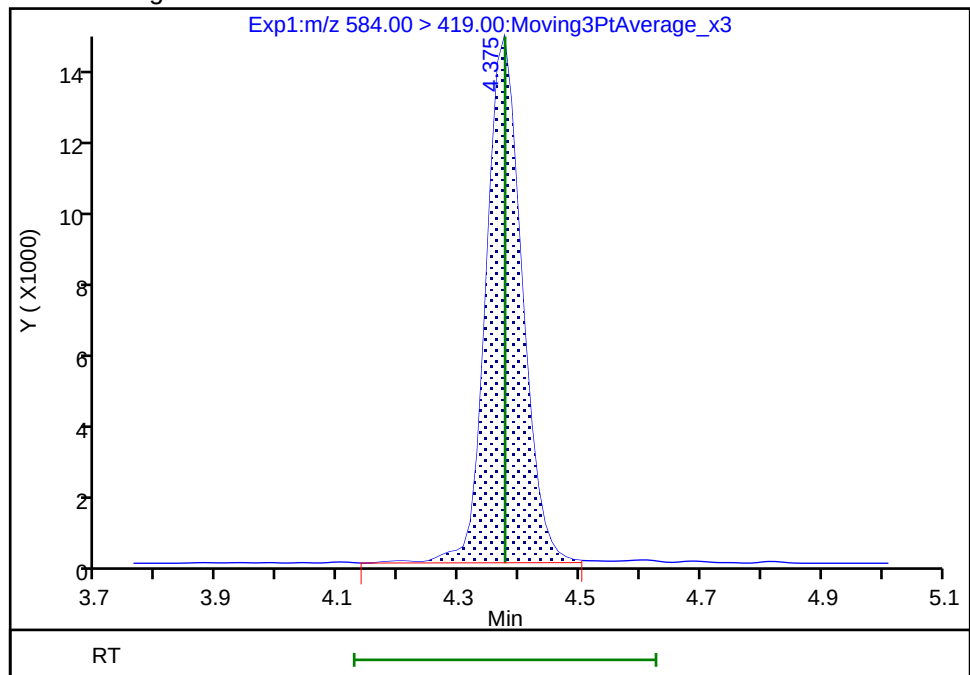
RT: 4.37
Area: 59225
Amount: 0.205534
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 58247
Amount: 0.202140
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:47:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

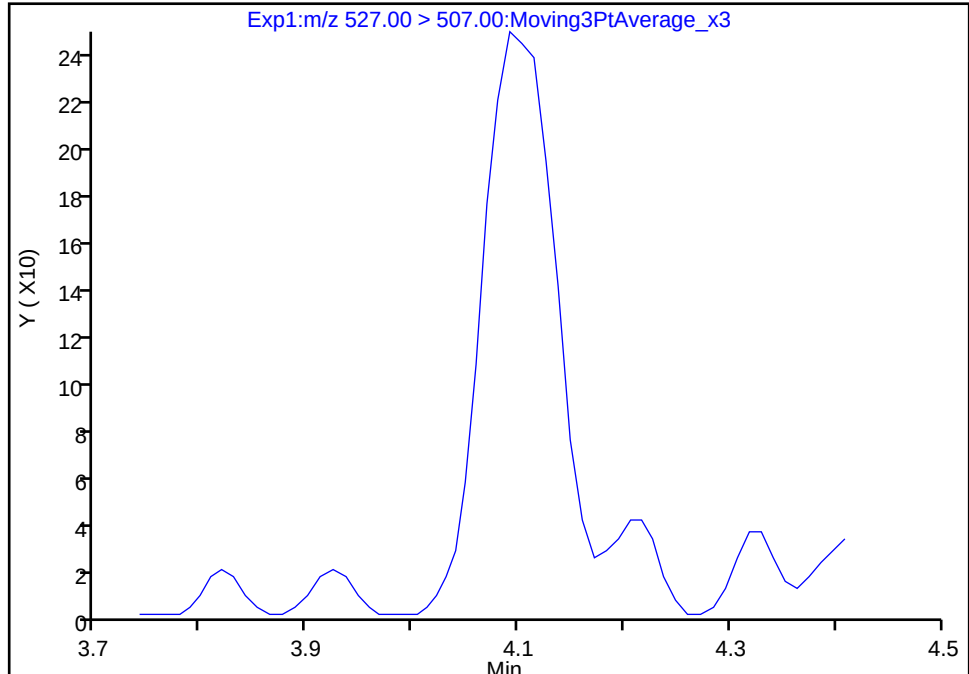
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d
Injection Date: 16-Nov-2022 22:07:26 Instrument ID: LC812
Lims ID: 460-269226-A-2-A Lab Sample ID: 200-269226-2
Client ID: BCS-09-21_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

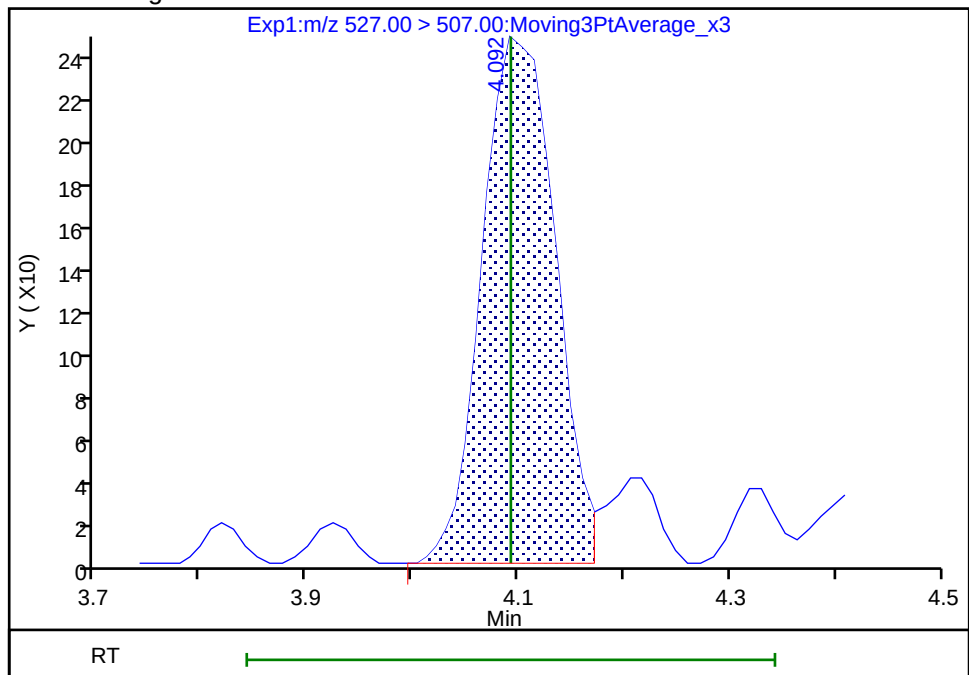
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 1186
Amount: 0.004507
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:46:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

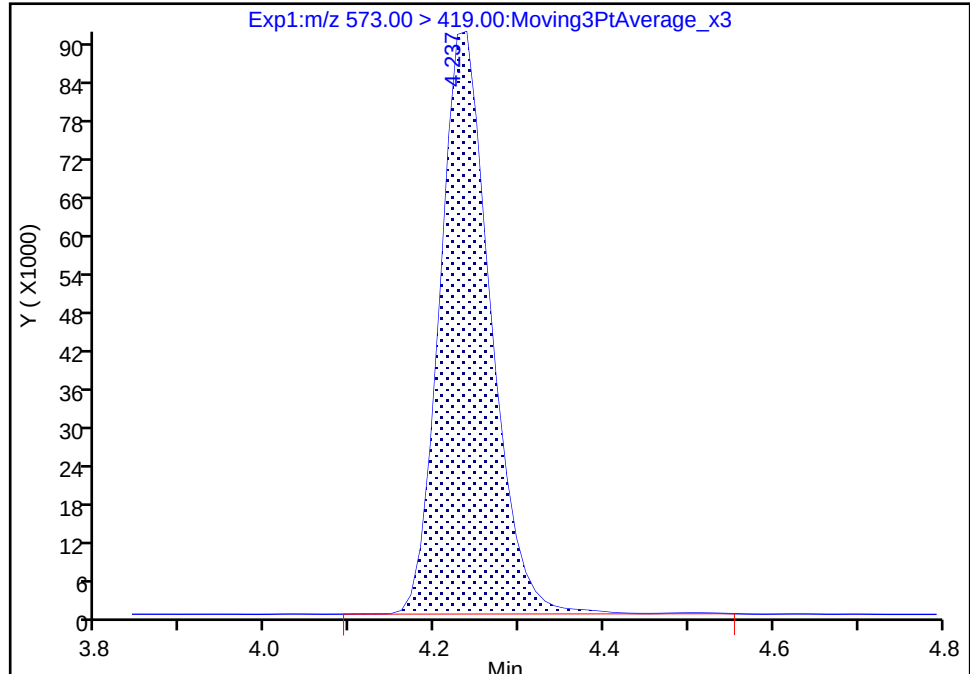
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D16.d		
Injection Date:	16-Nov-2022 22:07:26	Instrument ID:	LC812
Lims ID:	460-269226-A-2-A	Lab Sample ID:	200-269226-2
Client ID:	BCS-09-21_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	16

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

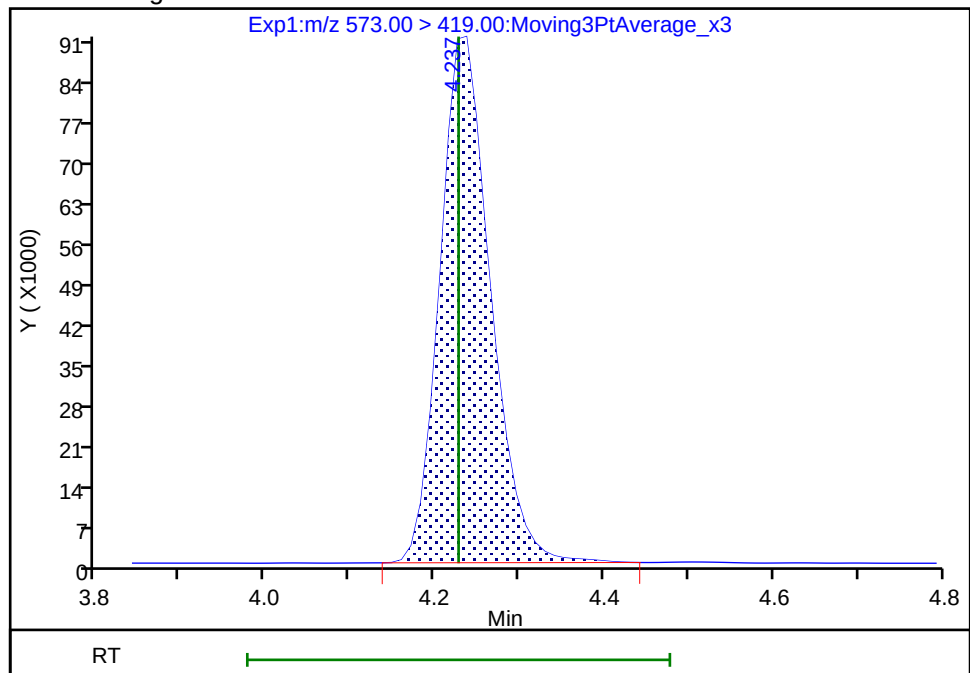
RT: 4.24
Area: 381434
Amount: 1.441953
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 380157
Amount: 1.437125
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:40:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: BCS-09-22_(10-10.5)P Lab Sample ID: 460-269226-3

Matrix: Solid Lab File ID: PA221116D17.d

Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:25

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.18(g) Date Analyzed: 11/16/2022 22:15

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

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

% Moisture: 28.7 % Solids: 71.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185848 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)	0.089	J	0.27	0.074
307-24-4	Perfluorohexanoic acid (PFHxA)	0.073	J	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	0.055
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)	2.71	U	2.71	0.15
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.71	U	2.71	0.11
27619-97-2	6:2 FTS	2.71	U	2.71	0.077
39108-34-4	8:2 FTS	2.71	U	2.71	0.050

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: BCS-09-22_(10-10.5)P Lab Sample ID: 460-269226-3
 Matrix: Solid Lab File ID: PA221116D17.d
 Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:25
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.18(g) Date Analyzed: 11/16/2022 22:15
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 28.7 % Solids: 71.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	73		50-150
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	83		50-150
STL00991	13C4 PFOS	72		50-150
STL00995	13C5 PFNA	85		50-150
STL00992	13C4 PFBA	74		50-150
STL00993	13C2 PFHxA	83		50-150
STL00996	13C2 PFDA	80		50-150
STL00997	13C2 PFUnA	89		50-150
STL00998	13C2 PFDoA	90		50-150
STL01056	13C8 FOSA	68		50-150
STL01893	13C5 PFPeA	73		50-150
STL02116	13C2 PFTeDA	91		50-150
STL02118	d3-NMeFOSAA	113		50-150
STL02117	d5-NEtFOSAA	114		50-150
STL02279	M2-6:2 FTS	75		50-150
STL02280	M2-8:2 FTS	72		50-150
STL02337	13C3 PFBS	69		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
 Lims ID: 460-269226-A-3-A
 Client ID: BCS-09-22_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Nov-2022 22:15:37 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-269226-A-3-A
 Misc. Info.: 200-0053360-017 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:19:16 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:52:09

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.077	2.068	0.009	0.602	2094960	0.9293		74.3	6395	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.076	0.001	1.000	64587	0.0381		5.2		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.688	1615777	0.9109		72.9	2483	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	45714	0.0331		1.0		M
D 47 13C3 PFBS										
301.90 > 80.00	2.387	2.386	0.001	0.692	1432151	0.7970		68.6	217045	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.387	2.400	-0.013	1.000	2609	0.001837	Target=2.19	4.4		M
298.90 > 99.00	2.400	2.400	0.0	1.006	1006		2.59(1.09-3.28)	0.5		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.726	2.725	0.001	0.790	1861460	1.03		82.6	2915	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.726	2.725	0.001	1.000	43543	0.0269	Target=13.67	8.3		M
313.00 > 119.00	2.713	2.725	-0.012	0.996	3128		13.92(6.83-20.50)	4.8		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1106594	0.8625		72.9	4501	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	4623	0.004247	Target=3.60	5.6		M
399.00 > 99.00	3.099	3.088	0.011	1.004	1616		2.86(1.80-5.40)	1.6		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.088	0.0	0.896	1741679	0.9828		78.6	3006	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.099	3.088	0.011	1.004	16884	0.0109	Target=3.76	3.9		
363.00 > 169.00	3.088	3.088	0.0	1.000	5634		3.00(1.88-5.65)	14.3		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.430	0.009	0.997	194775	0.8889		74.9	554	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.457	3.430	0.027	1.005	1806	0.006044			7.9	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	1954587	1.03		82.5	6964	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2310349	1.25			4178	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.457	3.439	0.018	1.003	22196	0.0125	Target=2.73		1.6	M
413.00 > 169.00	3.457	3.439	0.018	1.003	7739		2.87(1.37-4.10)		9.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	723891	0.8562		71.7	2426	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.802	3.764	0.038	1.010	7900	0.0107	Target=5.09		1.5	M
499.00 > 99.00	3.755	3.764	-0.009	0.997	1855		4.26(2.55-7.64)		0.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	1986141	1.07		85.2	5223	
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.093	0.0	1.187	1817533	1.00		80.3	4341	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	223328	0.8620		72.0	586	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	1297	0.005611			9.9	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1254905	0.8505		68.0	1957	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.138	0.012	1.000	1303	0.001285			4.7	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	361410	1.42		113	851	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.228	4.238	-0.010	1.000	519	0.001941			1.9	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.331	-0.022	1.145	279	0.000668	Target=2.59		3.0	M
599.00 > 99.00	4.320	4.331	-0.011	1.148	173		1.61(1.30-3.89)		2.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.365	4.365	0.0	1.266	1654401	1.12		89.2	2516	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	361336	1.43		114	937	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.376	0.0	1.003	910	0.003445			6.7	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.602	-0.001	1.334	1634364	1.13		90.4	6275	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.602	-0.001	1.000	7527	0.005387	Target=6.96		0.8	M
613.00 > 169.00	4.601	4.602	-0.001	1.000	850		8.86(3.48-10.43)		8.1	M

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

D 43 13C2 PFTeDA

715.00 > 670.00 5.011 5.032 -0.021 1.453 1403577 1.14 90.8 5841

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d

Injection Date: 16-Nov-2022 22:15:37

Instrument ID: LC812

Lims ID: 460-269226-A-3-A

Lab Sample ID: 200-269226-3

Client ID: BCS-09-22_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

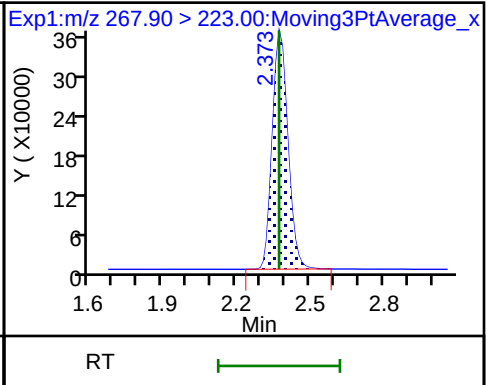
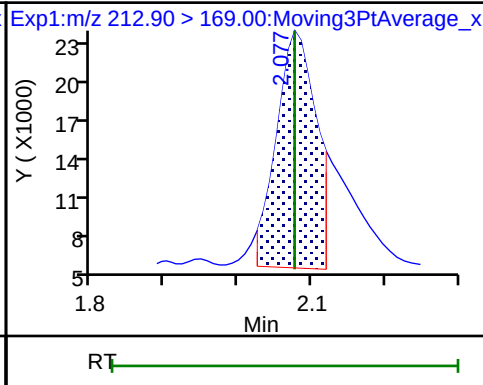
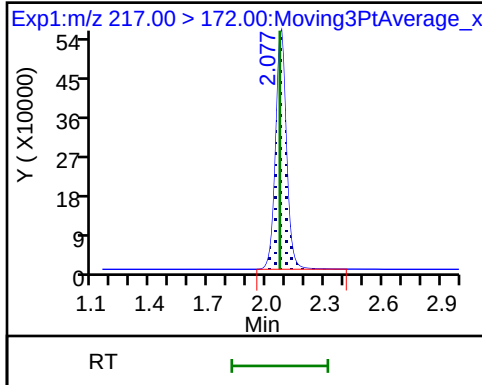
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

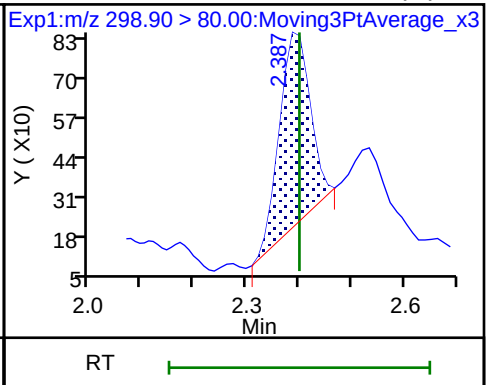
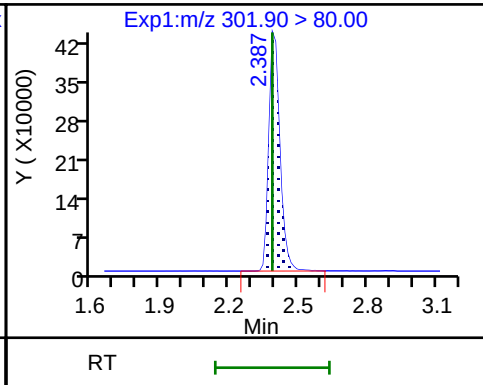
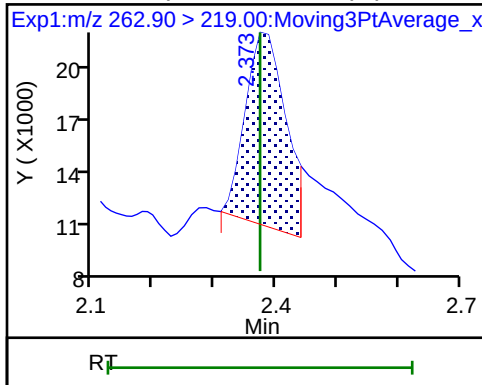
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

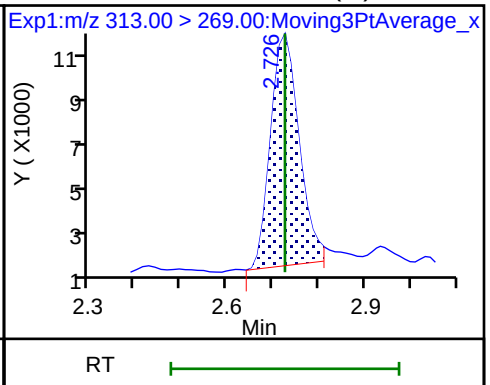
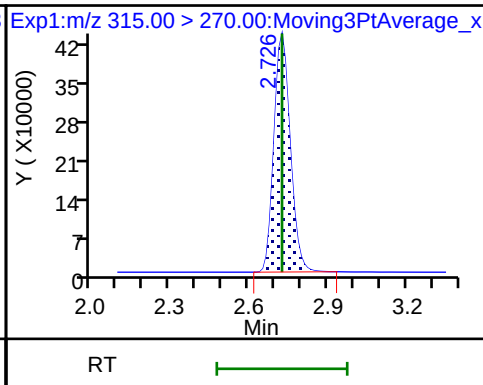
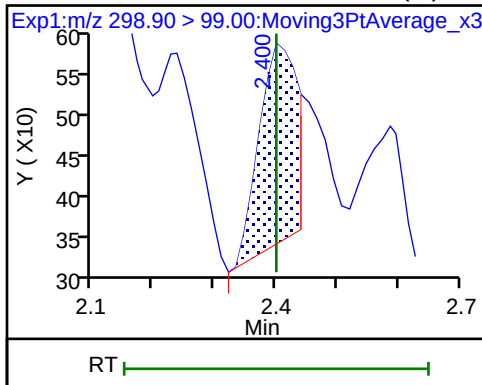
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

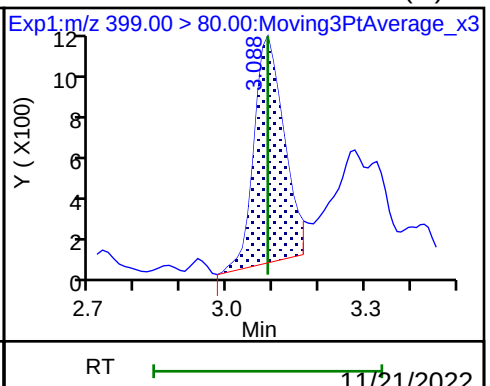
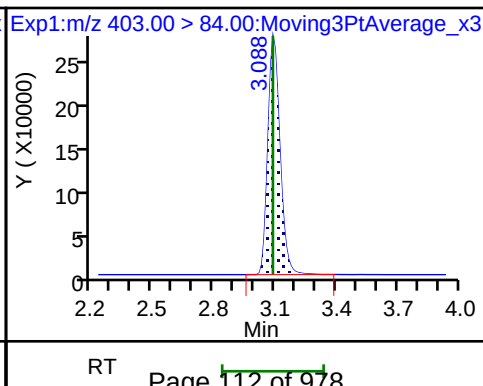
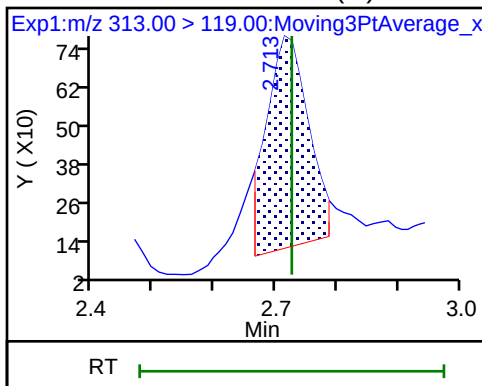
6 Perfluorohexanoic acid (M)

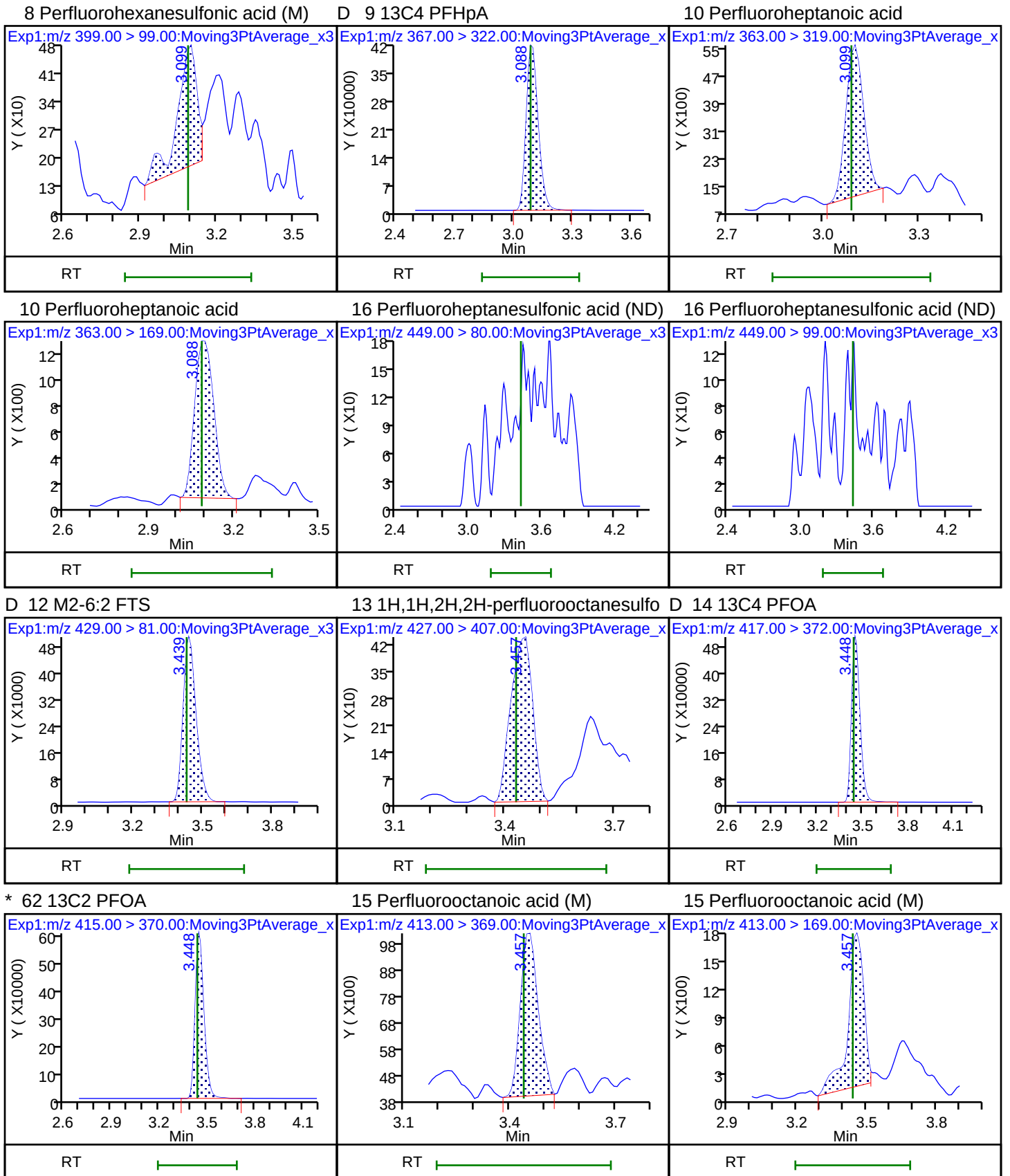


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

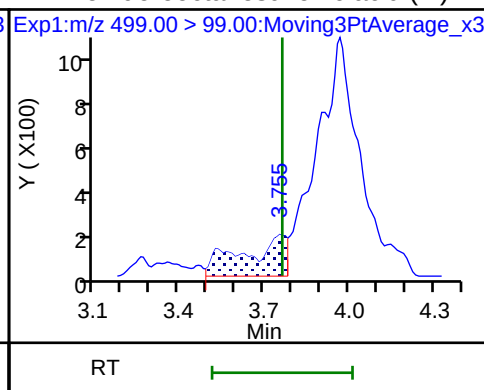
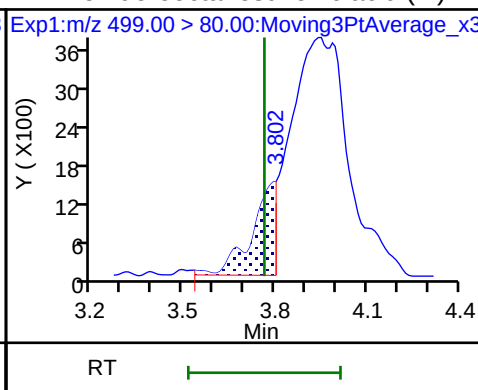
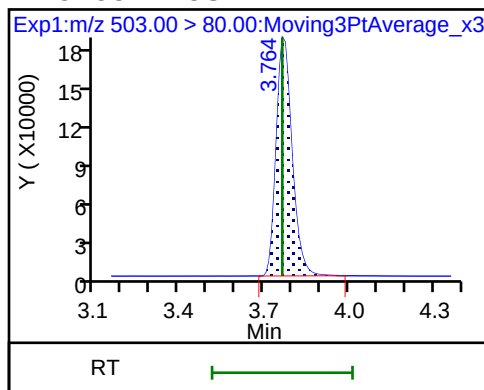




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

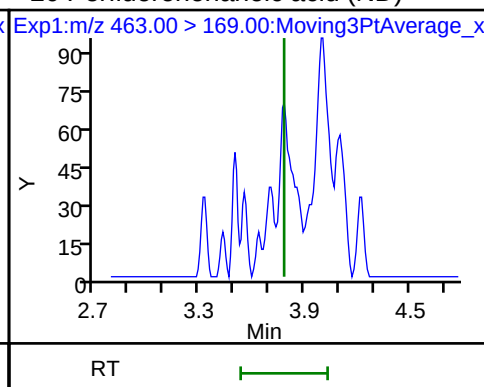
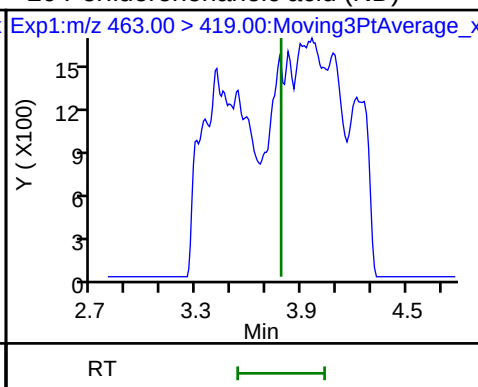
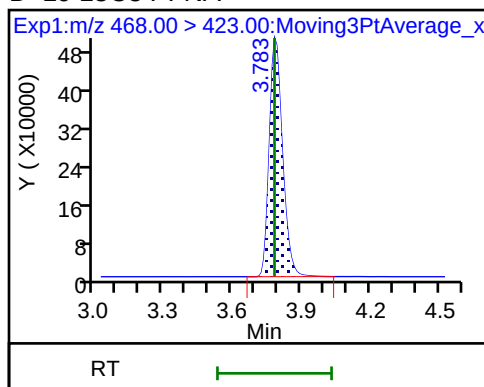
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

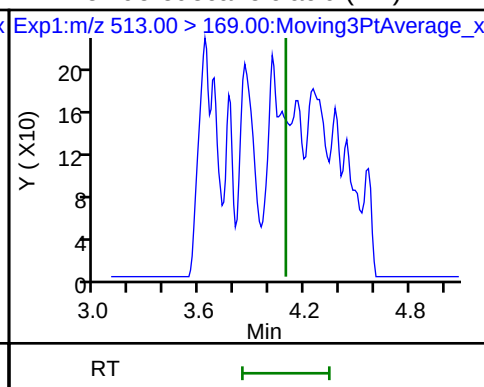
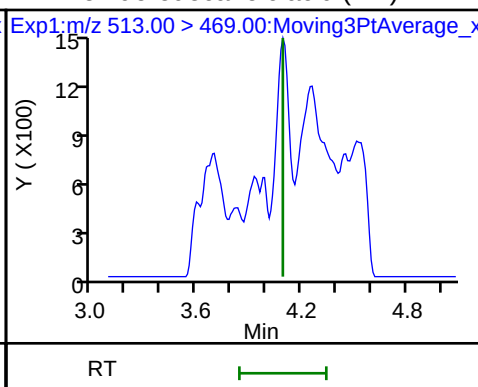
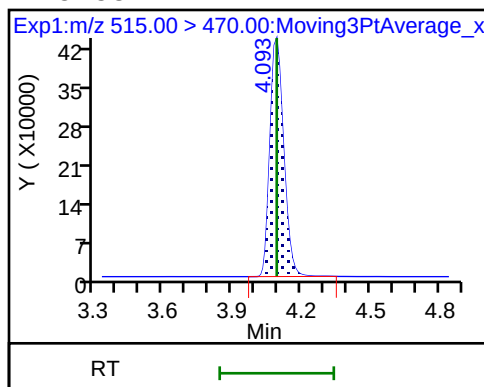
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

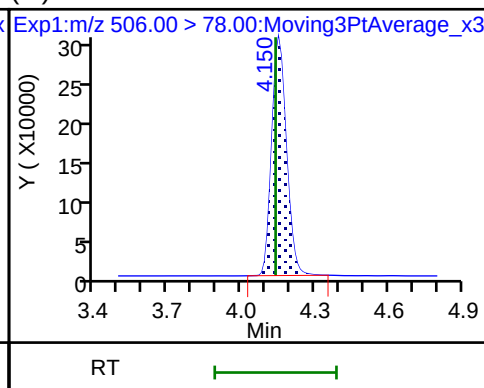
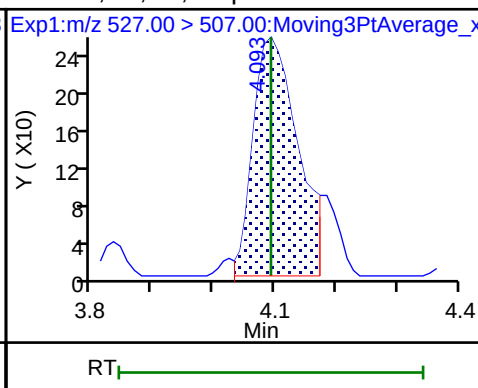
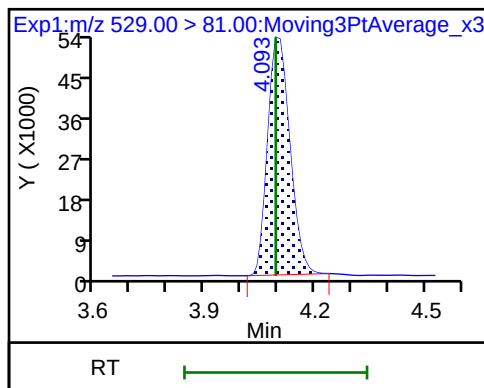
24 Perfluorodecanoic acid (ND)

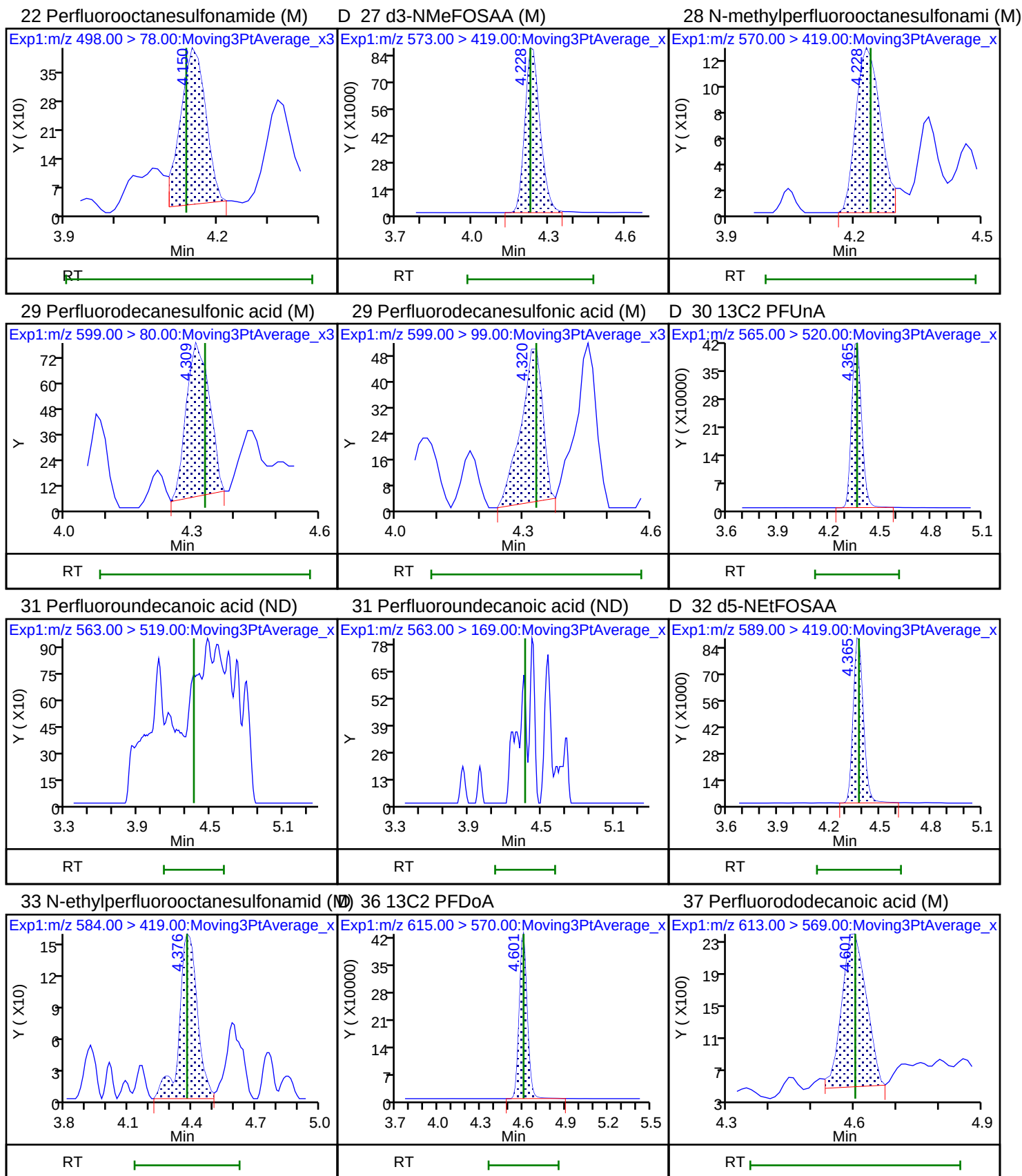


D 26 M2-8:2 FTS

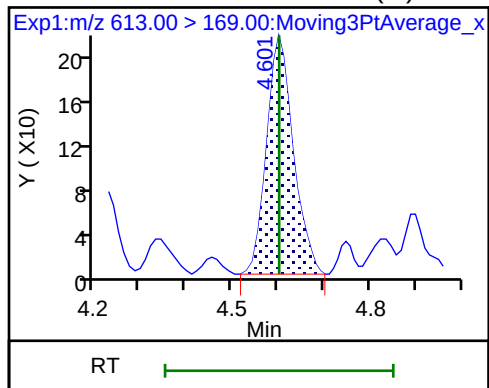
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

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

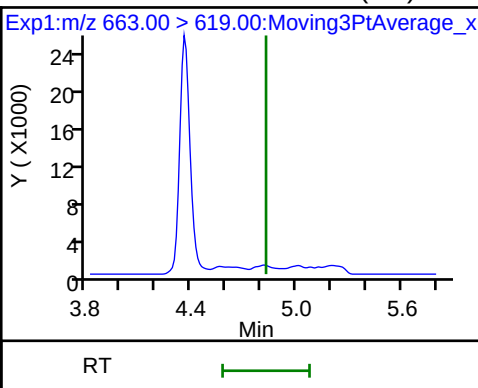




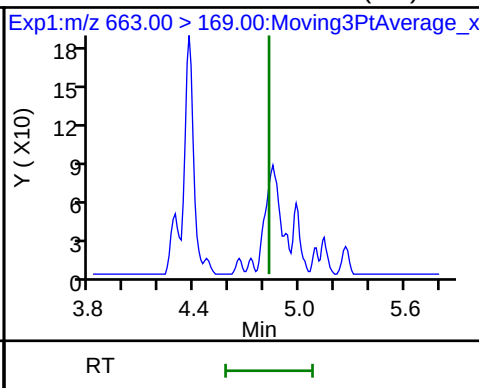
37 Perfluorododecanoic acid (M)



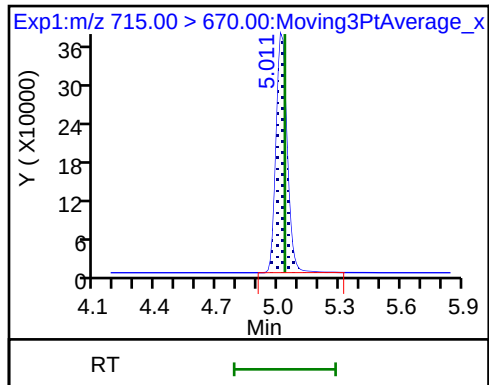
41 Perfluorotridecanoic acid (ND)



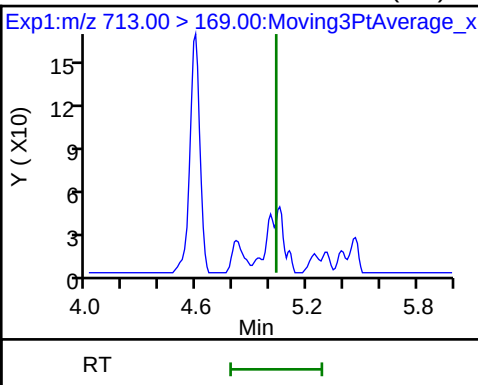
41 Perfluorotridecanoic acid (ND)



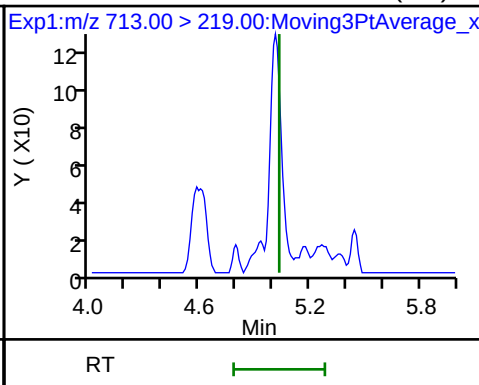
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



Eurofins Burlington

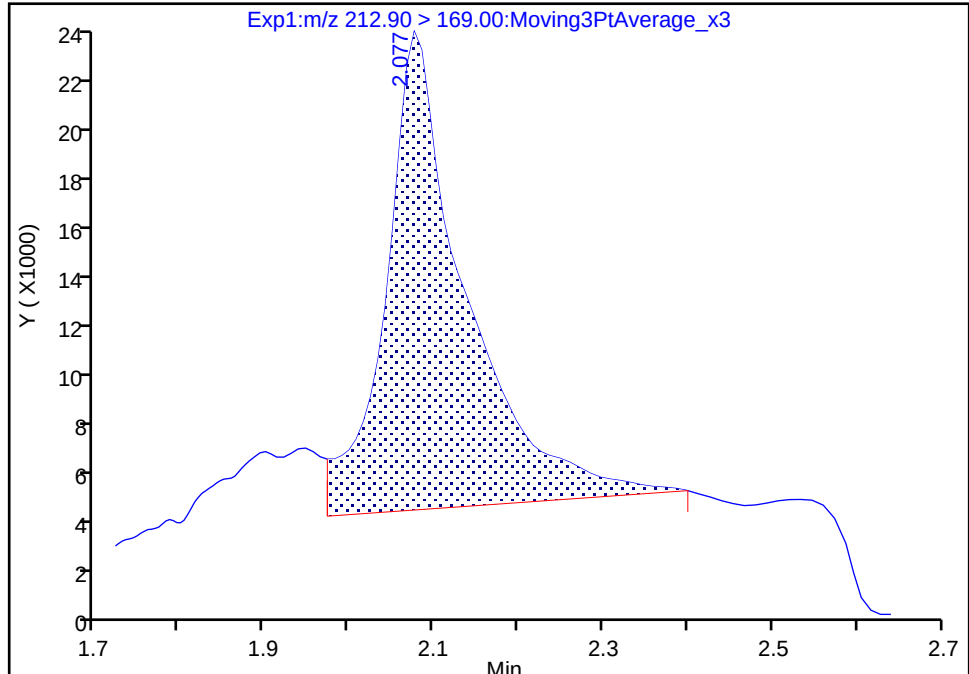
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d				
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812		
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3		
Client ID:	BCS-09-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	17
Injection 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

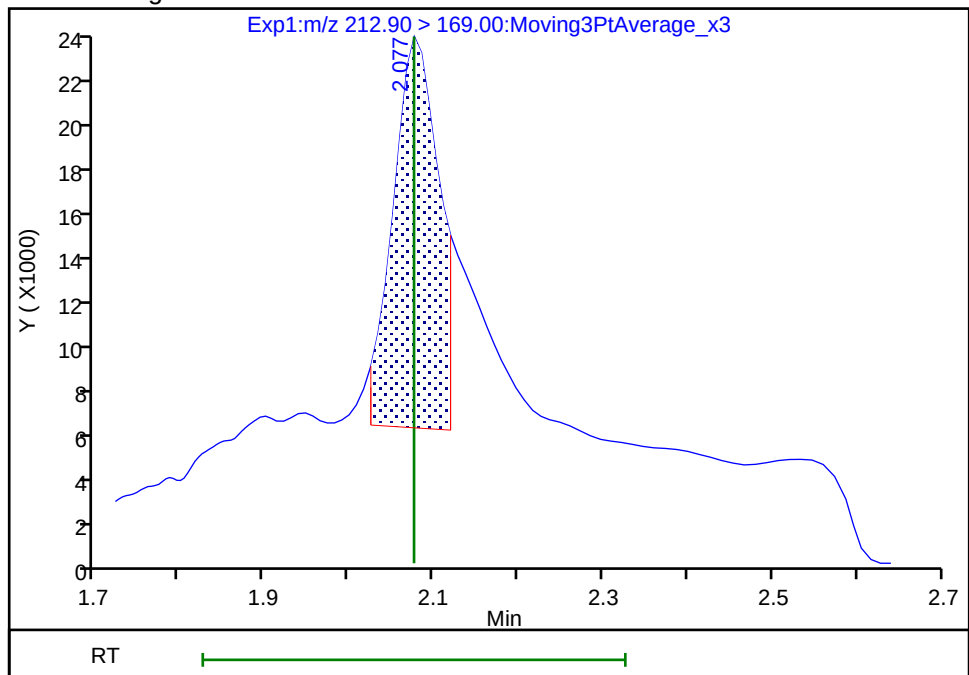
RT: 2.08
Area: 127835
Amount: 0.075337
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 64587
Amount: 0.038063
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:49:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

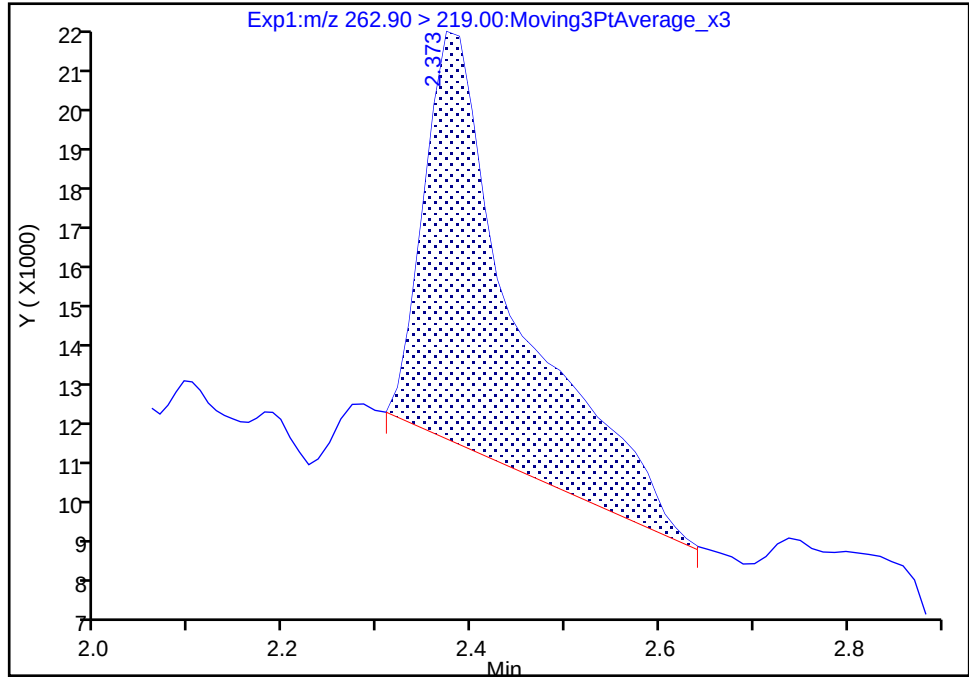
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d				
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812		
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3		
Client ID:	BCS-09-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	17
Injection 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

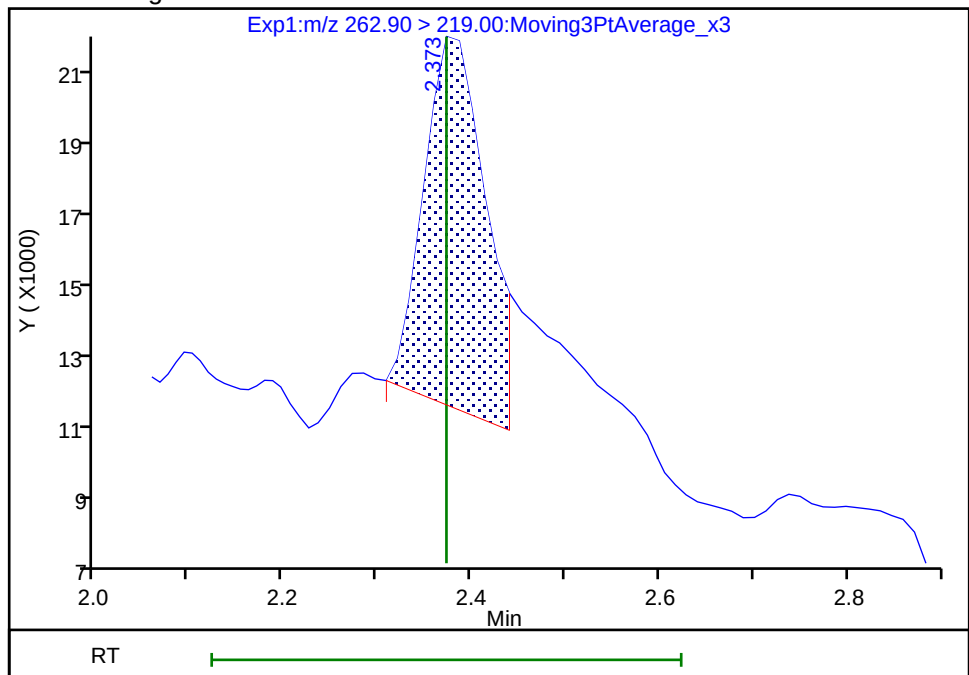
RT: 2.37
Area: 69441
Amount: 0.050213
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 45714
Amount: 0.033056
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:49:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

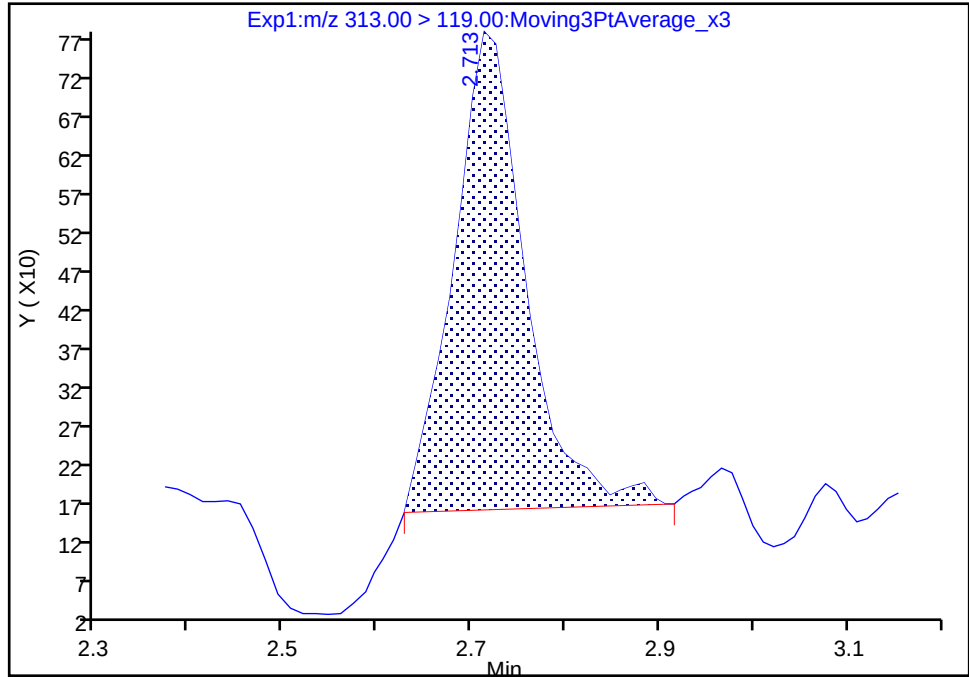
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d		
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3
Client ID:	BCS-09-22_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	17

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

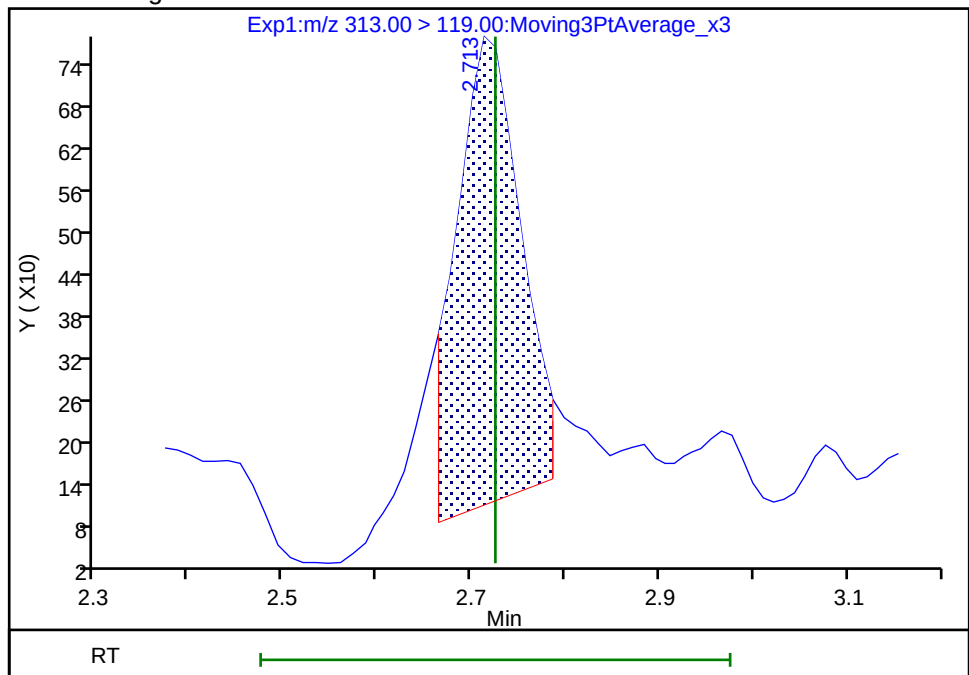
RT: 2.71
Area: 3259
Amount: 0.027776
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 3128
Amount: 0.026932
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:49:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

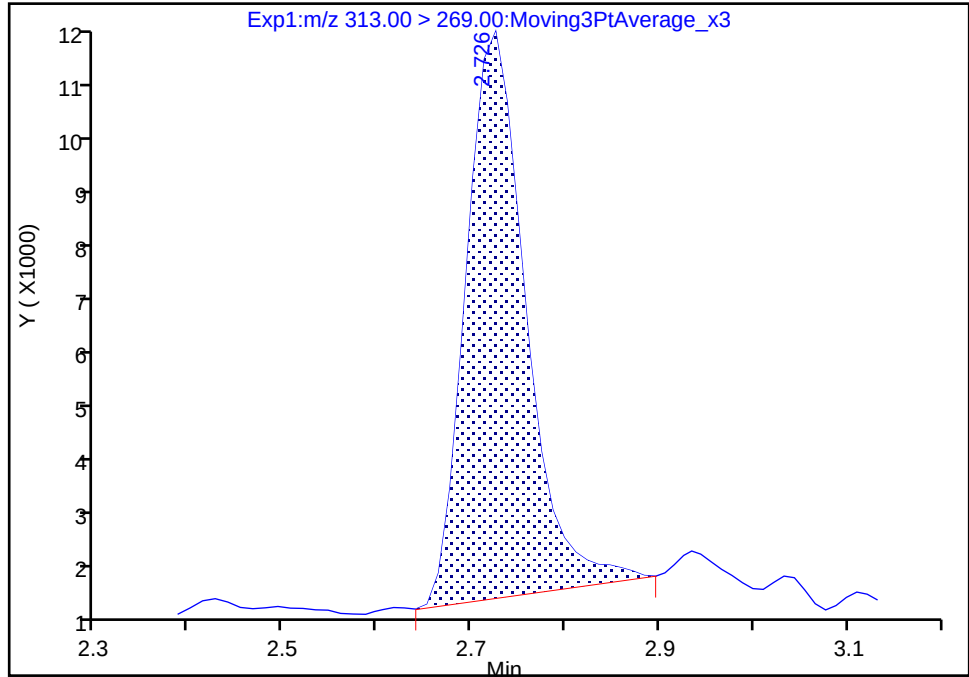
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

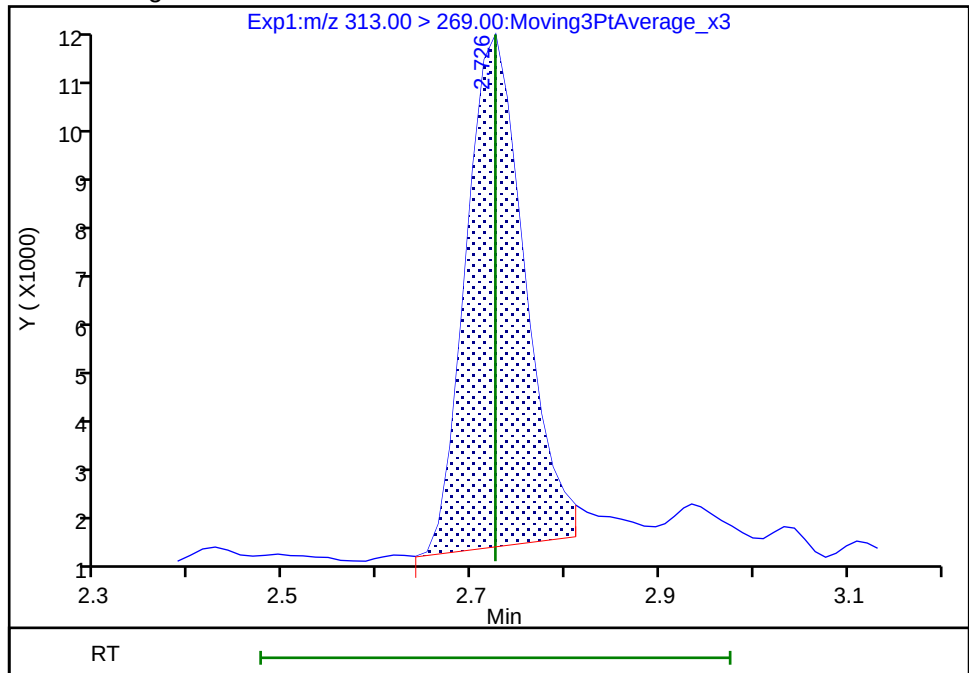
RT: 2.73
Area: 44907
Amount: 0.027776
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 43543
Amount: 0.026932
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:49:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

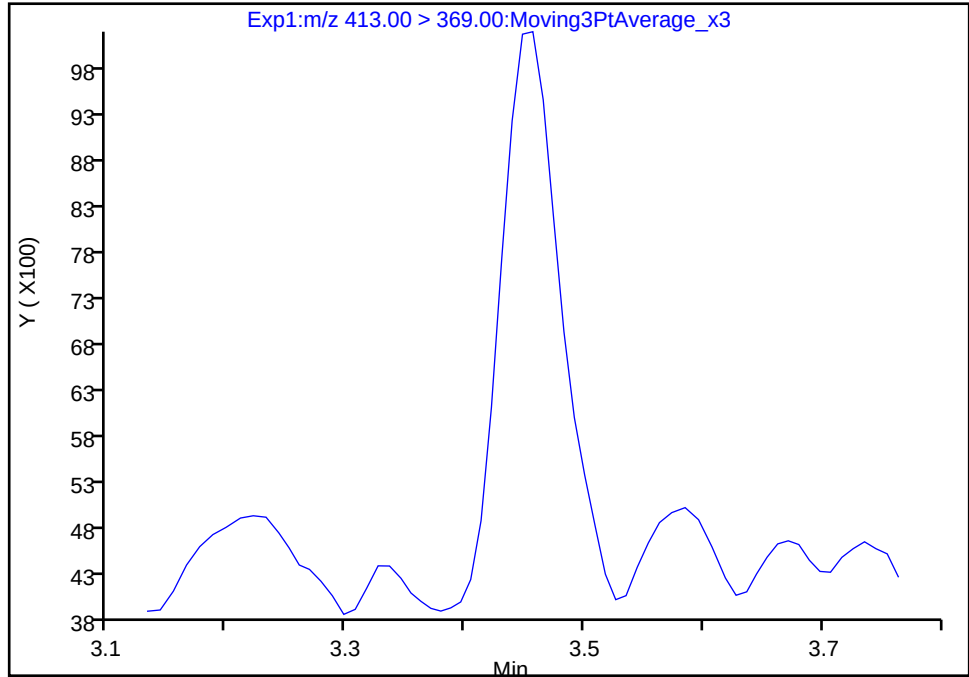
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d				
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812		
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3		
Client ID:	BCS-09-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	17
Injection 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

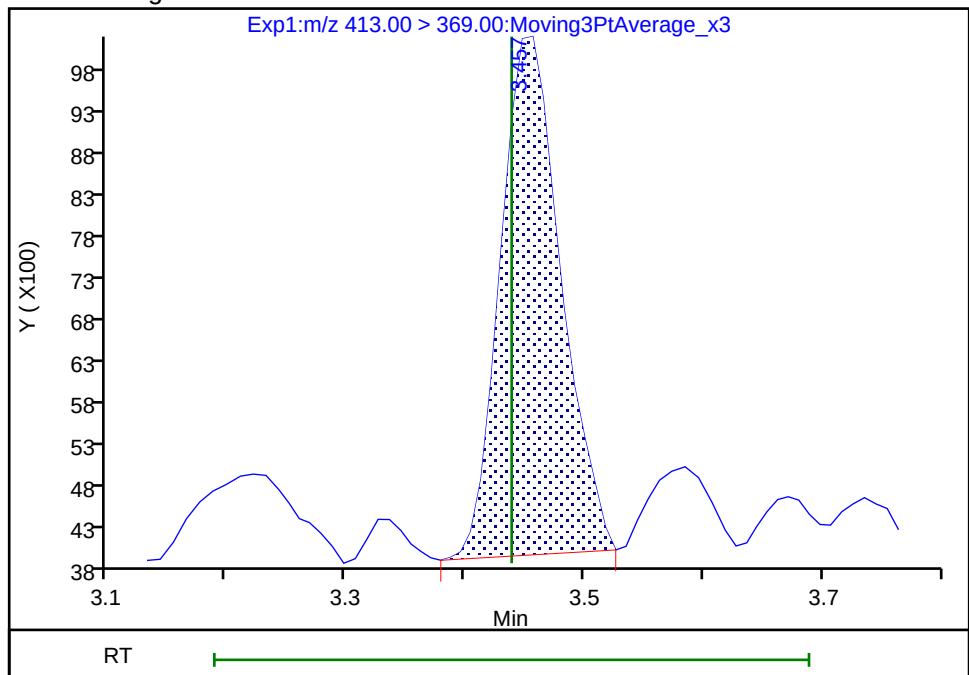
Signal: 1

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.46
Area: 22196
Amount: 0.012541
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:50:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

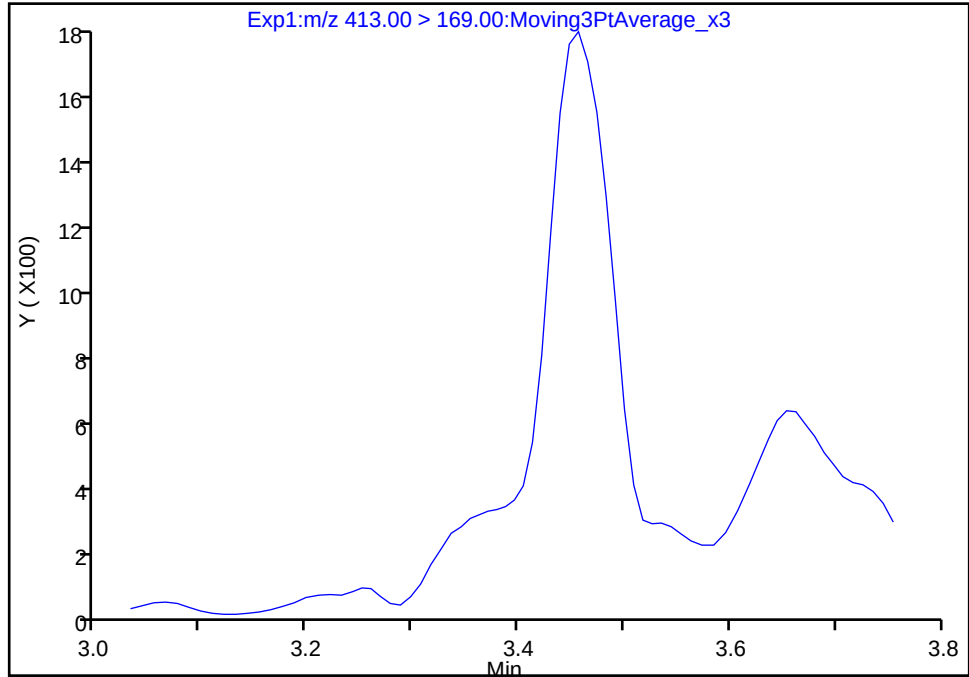
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

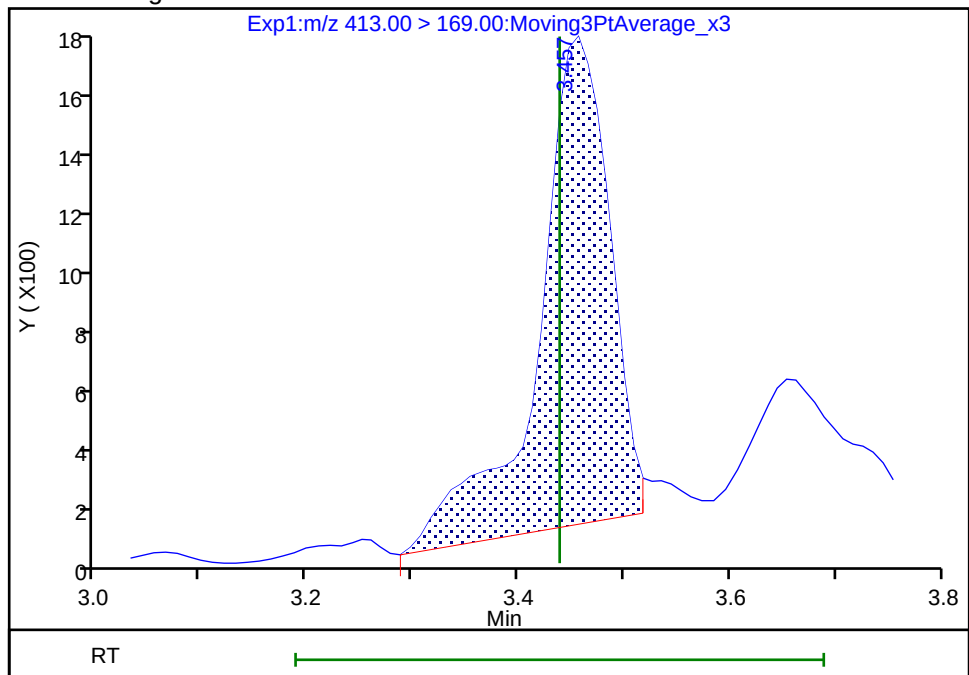
Not Detected
Expected RT: 3.44

Processing Integration Results



RT: 3.46
Area: 7739
Amount: 0.012541
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:50:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

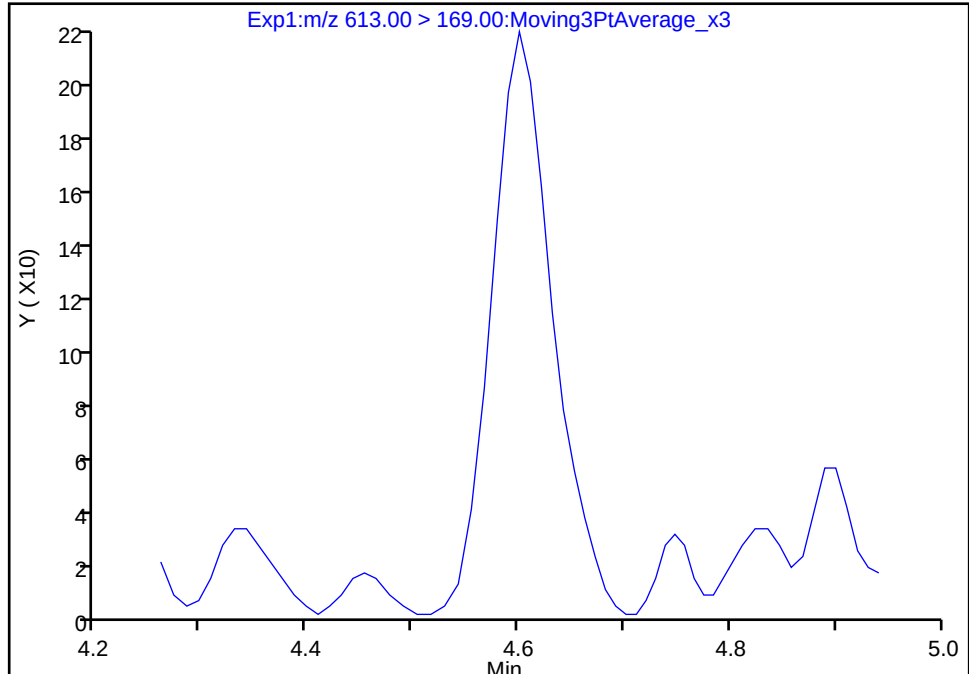
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d		
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3
Client ID:	BCS-09-22_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	17

37 Perfluorododecanoic acid, CAS: 307-55-1

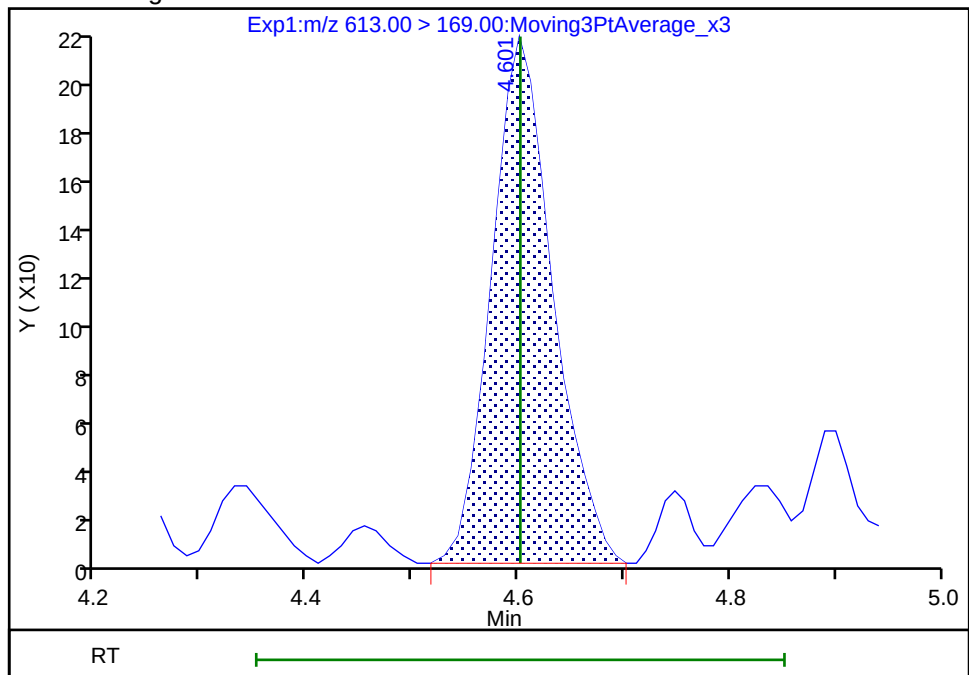
Signal: 2

Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 850
Amount: 0.005387
Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:51:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

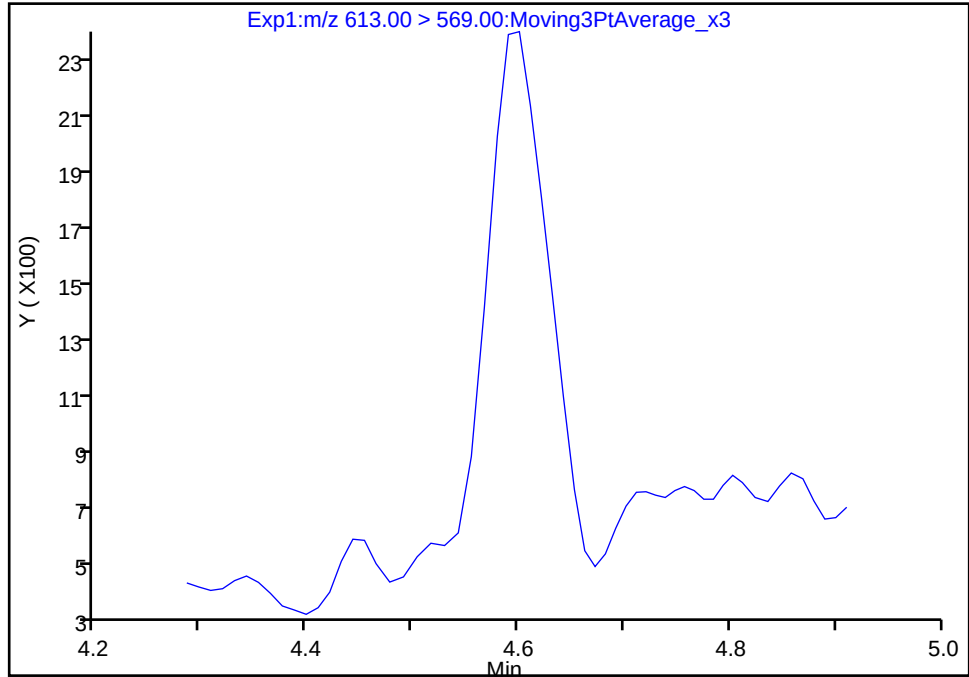
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

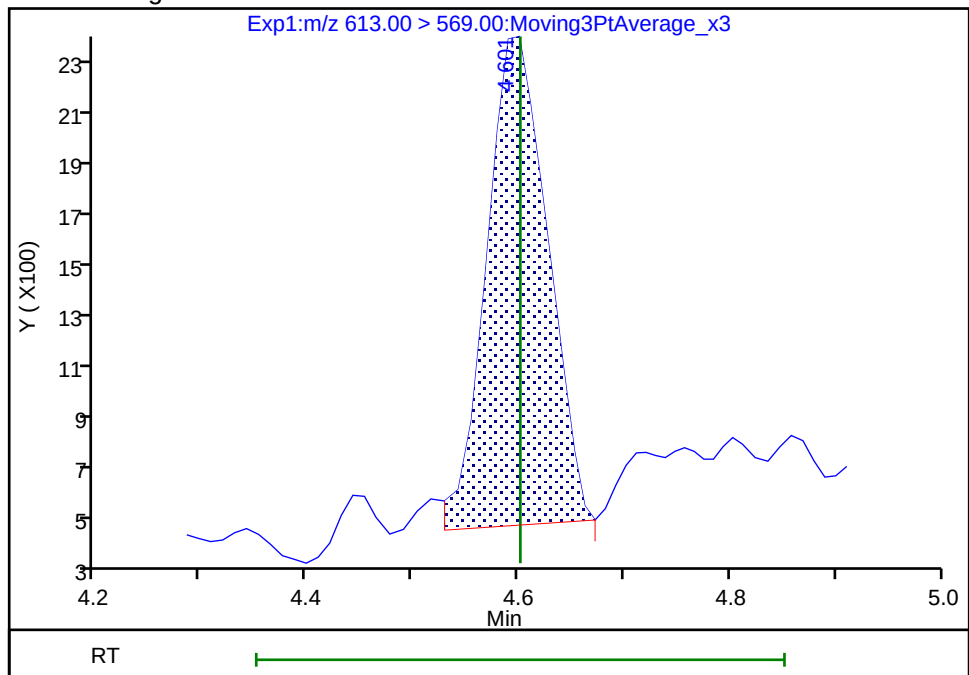
Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 7527
Amount: 0.005387
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:52:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 124 of 978

11/21/2022
4:10 PM

Eurofins Burlington

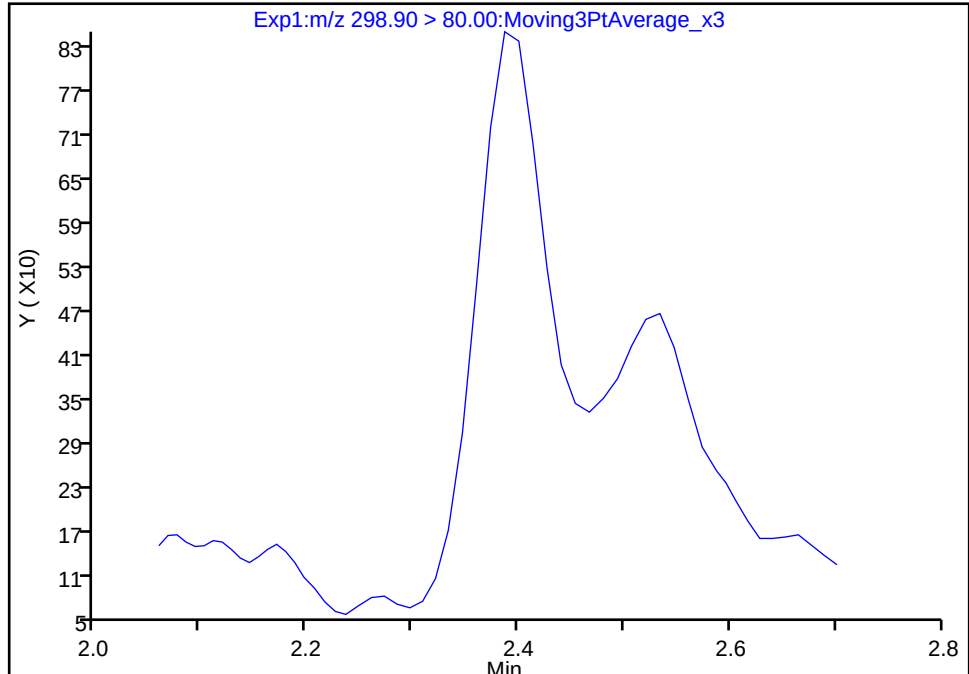
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

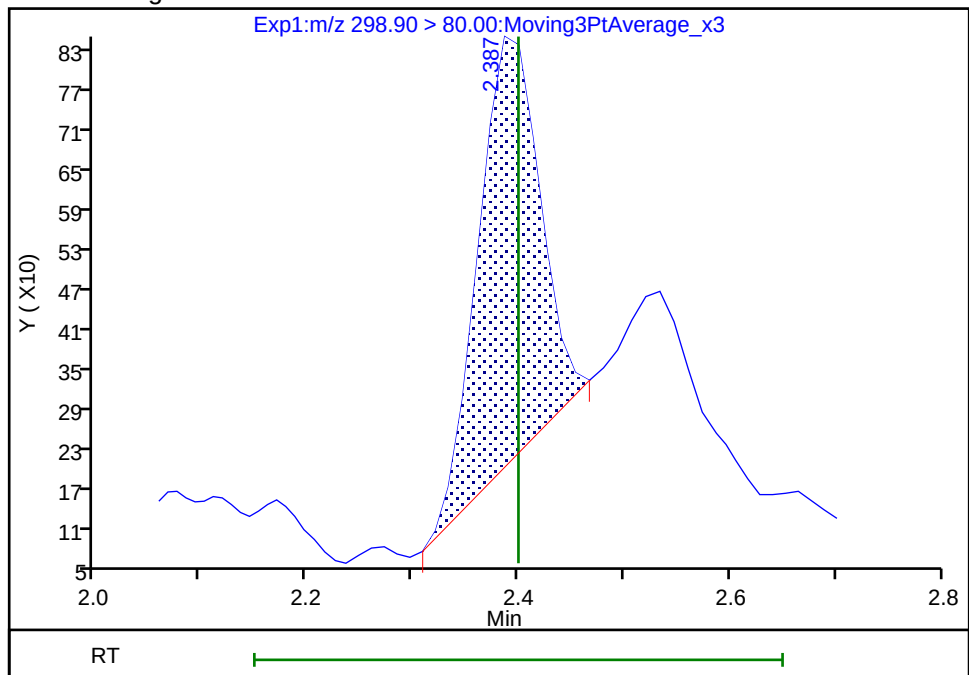
Not Detected
Expected RT: 2.40

Processing Integration Results



RT: 2.39
Area: 2609
Amount: 0.001837
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:49:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

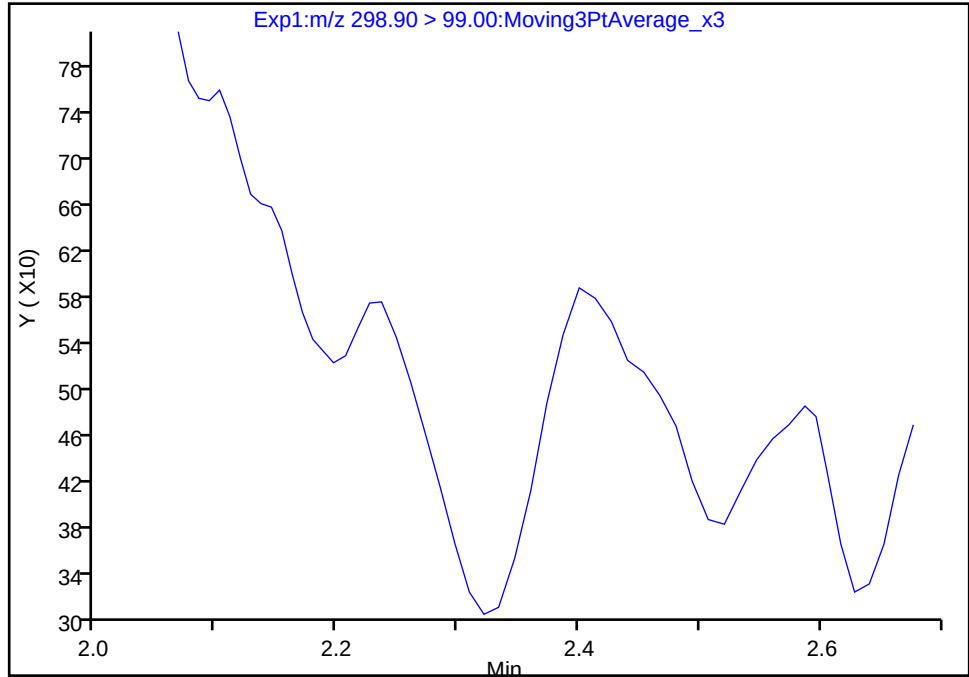
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

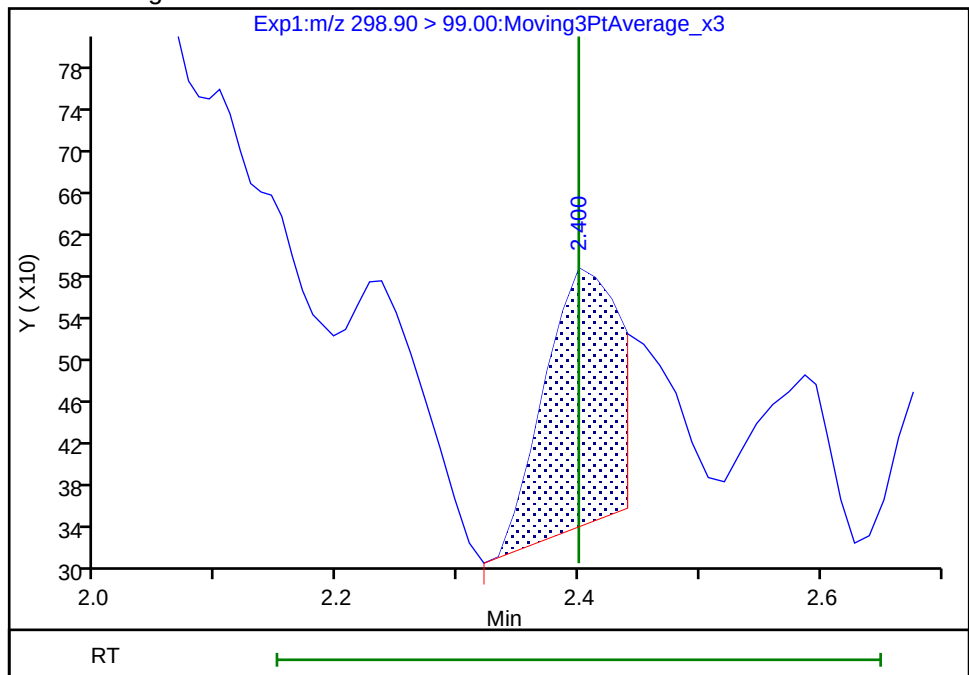
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 1006
Amount: 0.001837
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:49:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

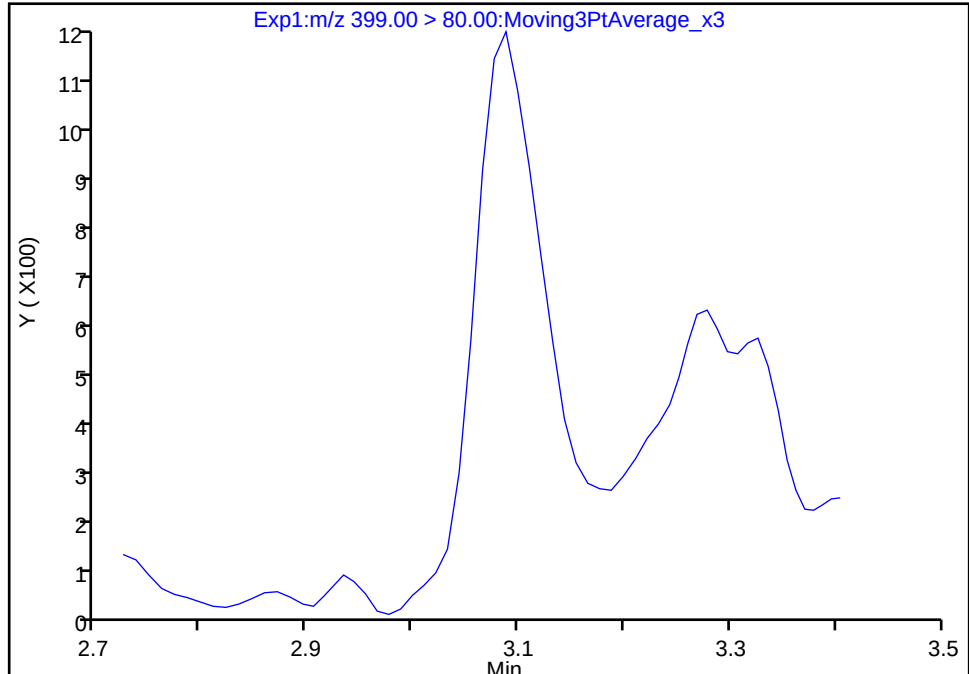
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d				
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812		
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3		
Client ID:	BCS-09-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	17
Injection 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

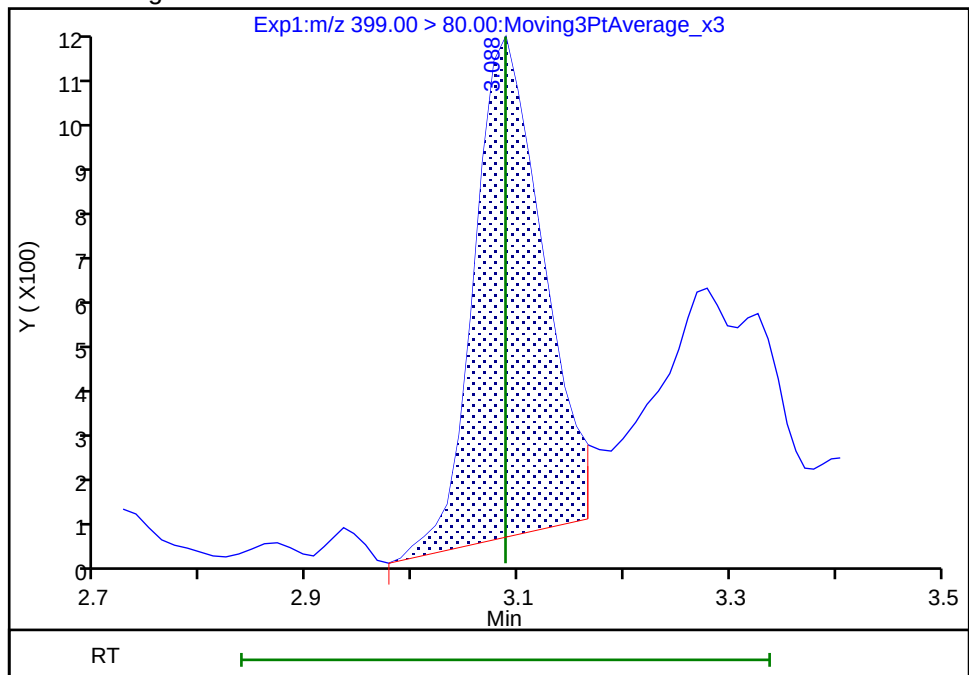
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 4623
Amount: 0.004247
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:50:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

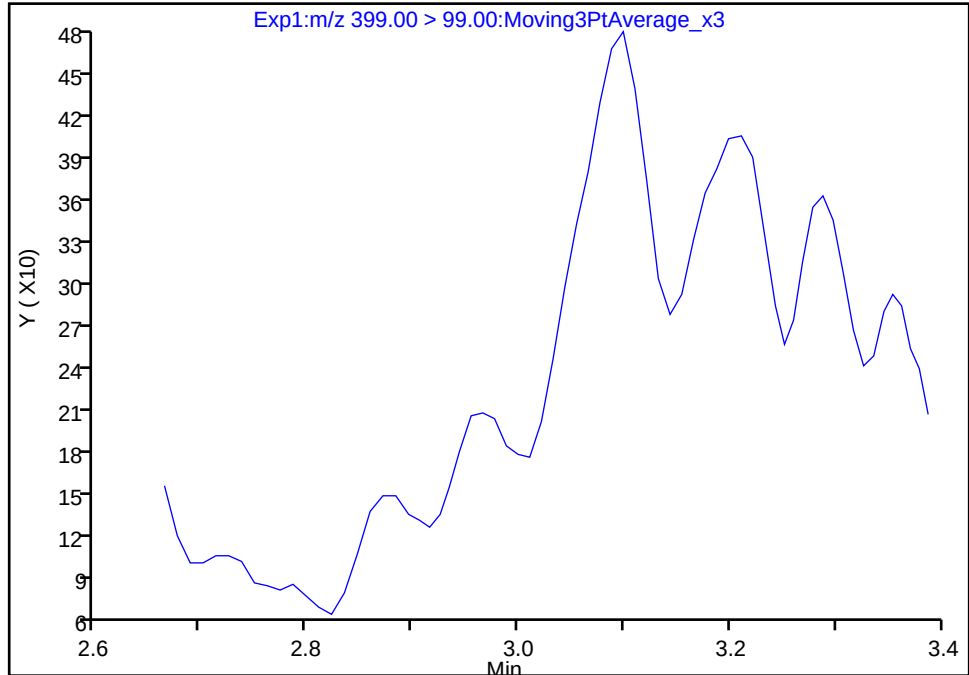
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

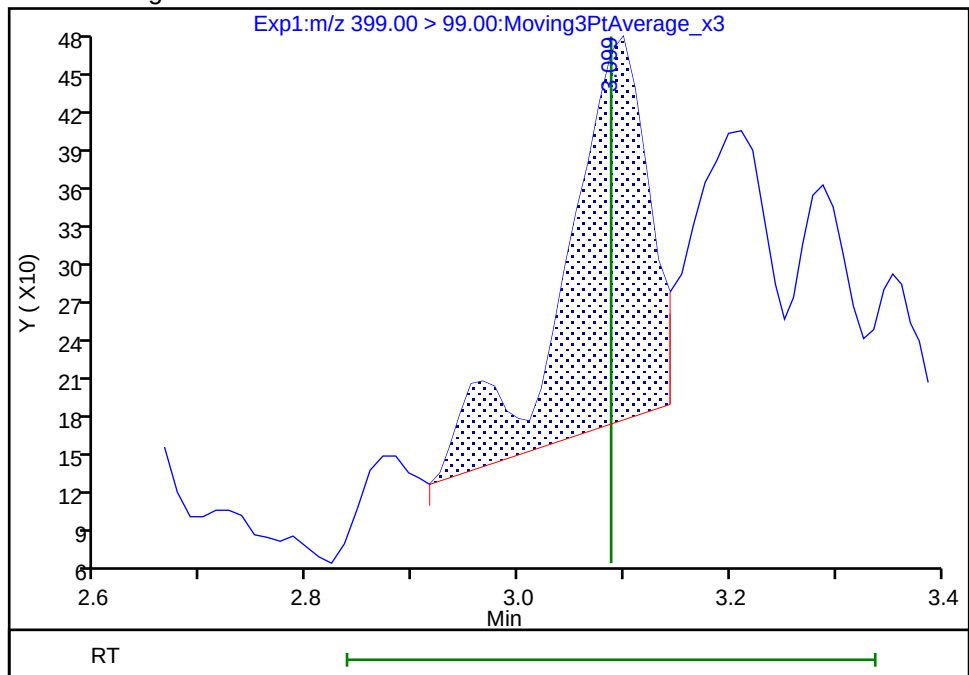
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 1616
Amount: 0.004247
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:50:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 128 of 978

11/21/2022
4:10 PM

Eurofins Burlington

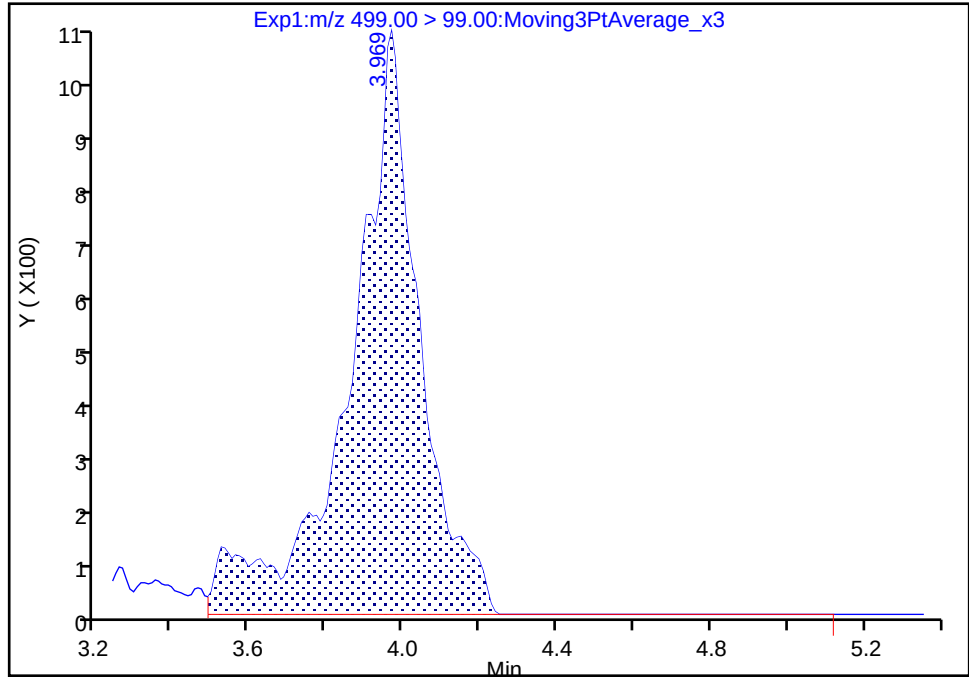
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

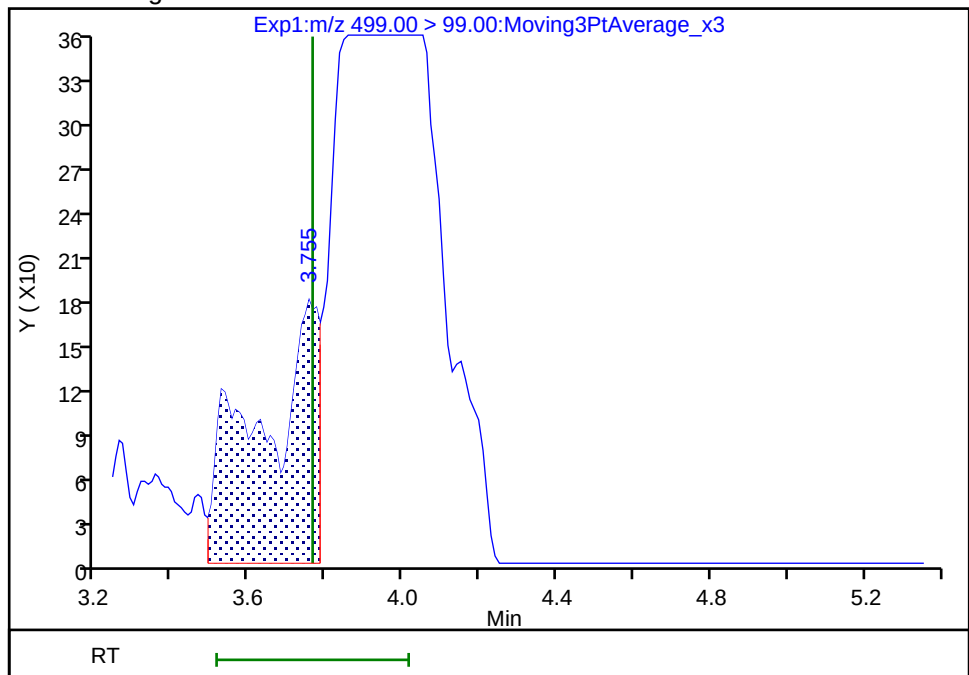
RT: 3.97
Area: 13012
Amount: 0.079160
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 1855
Amount: 0.010734
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:50:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

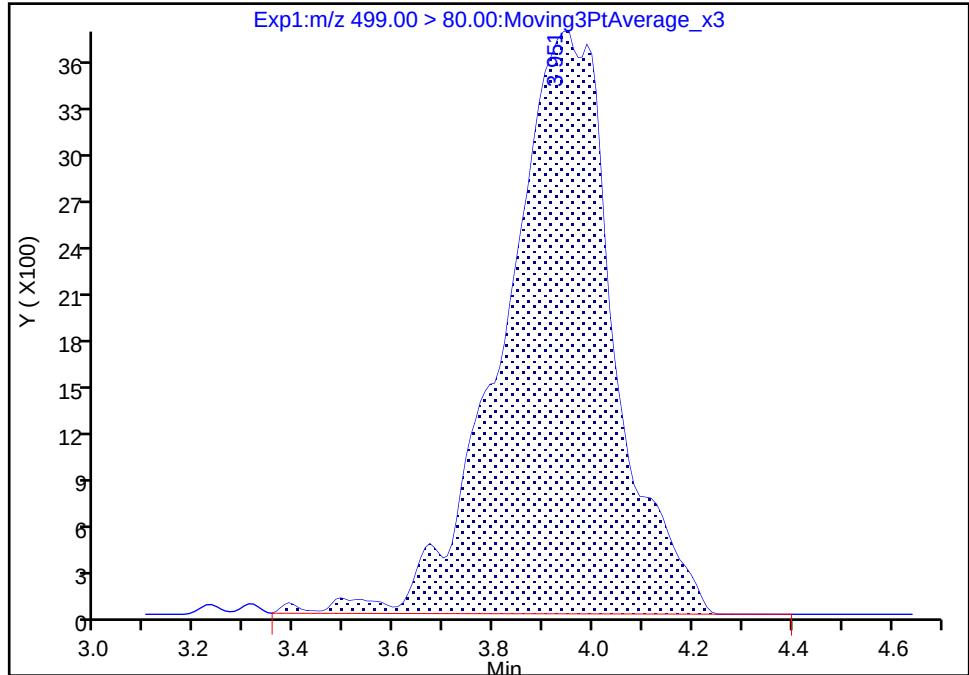
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

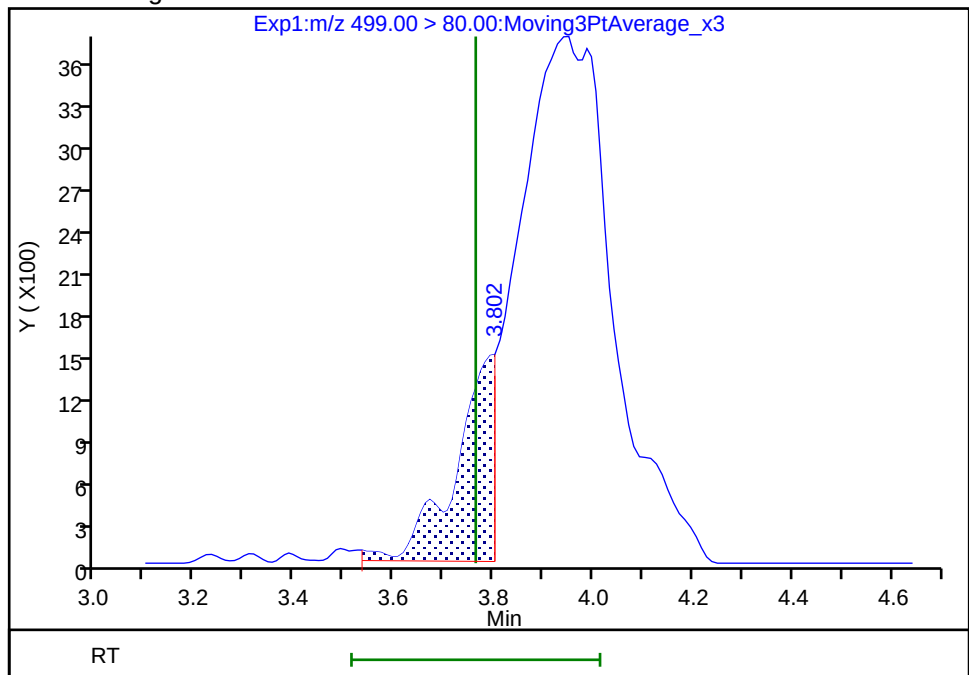
RT: 3.95
Area: 58259
Amount: 0.079160
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 7900
Amount: 0.010734
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:51:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 130 of 97811/21/2022
4:10 PM

Eurofins Burlington

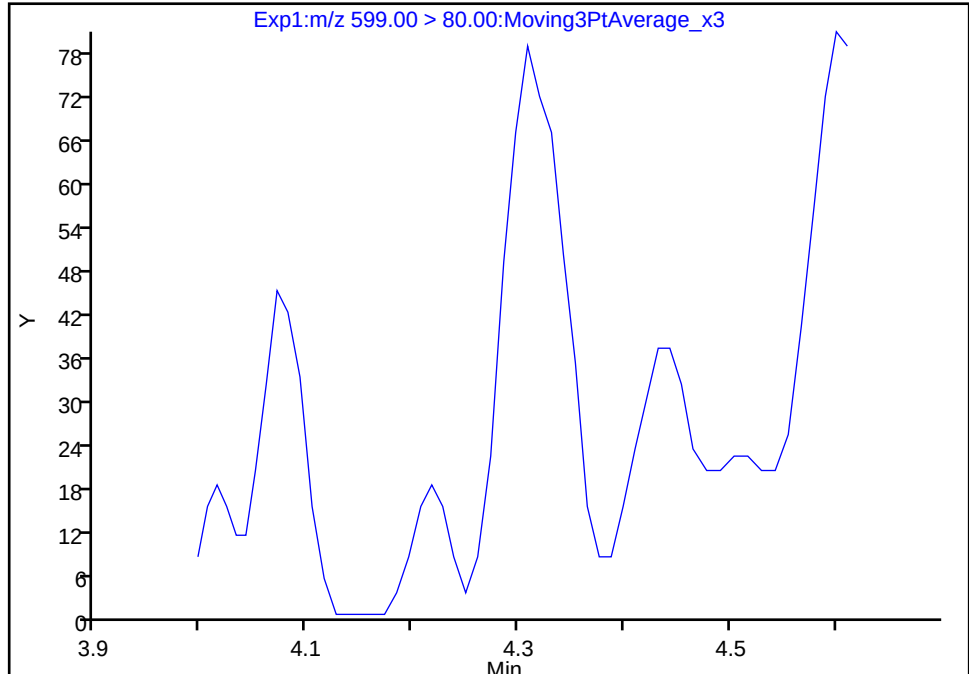
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

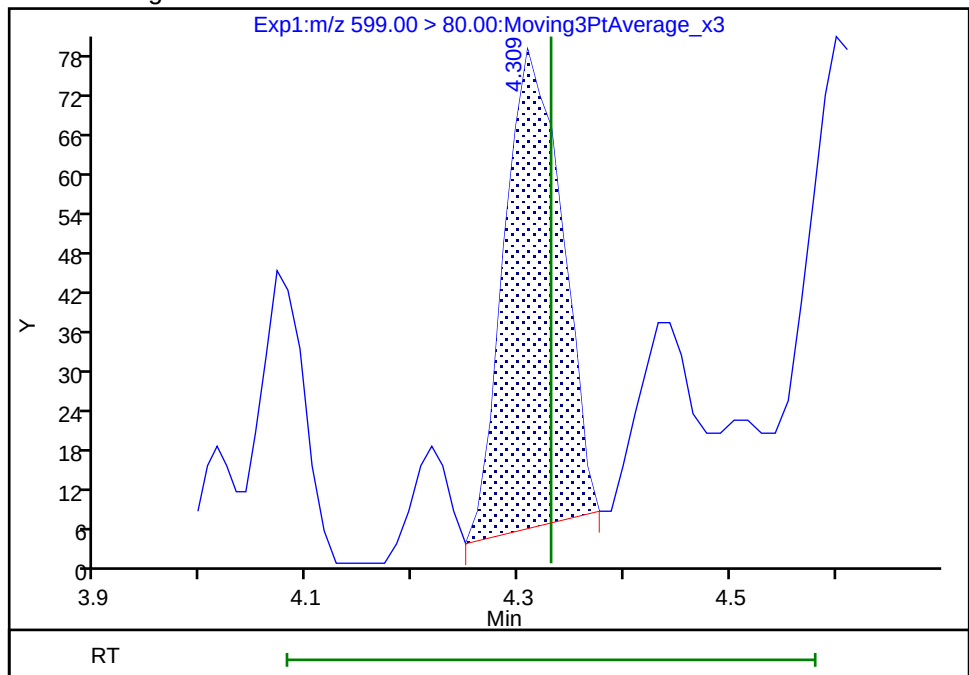
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 279
Amount: 0.000668
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:51:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

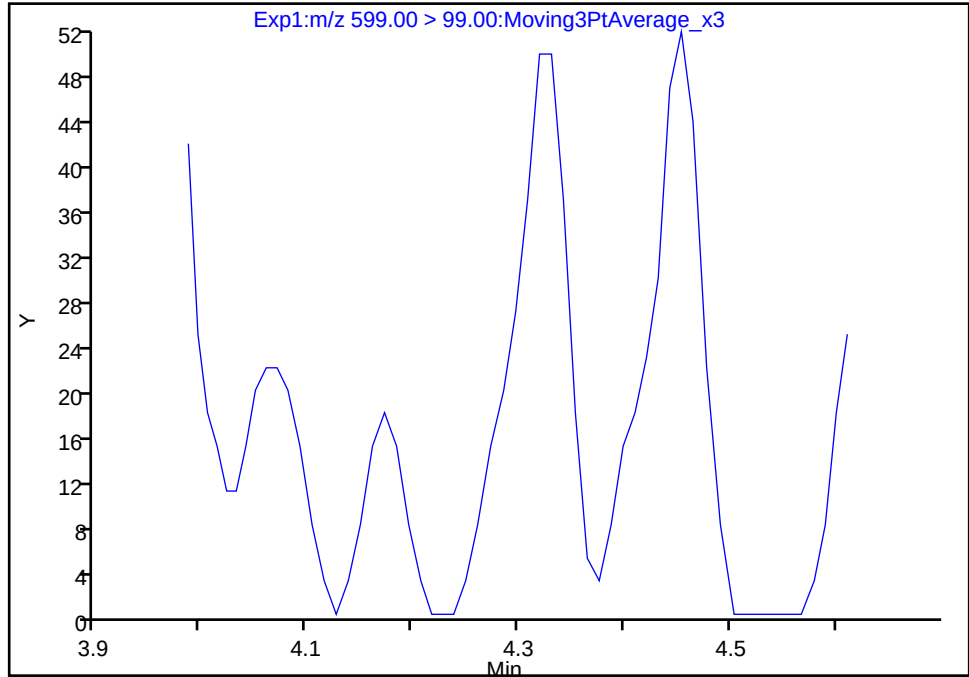
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

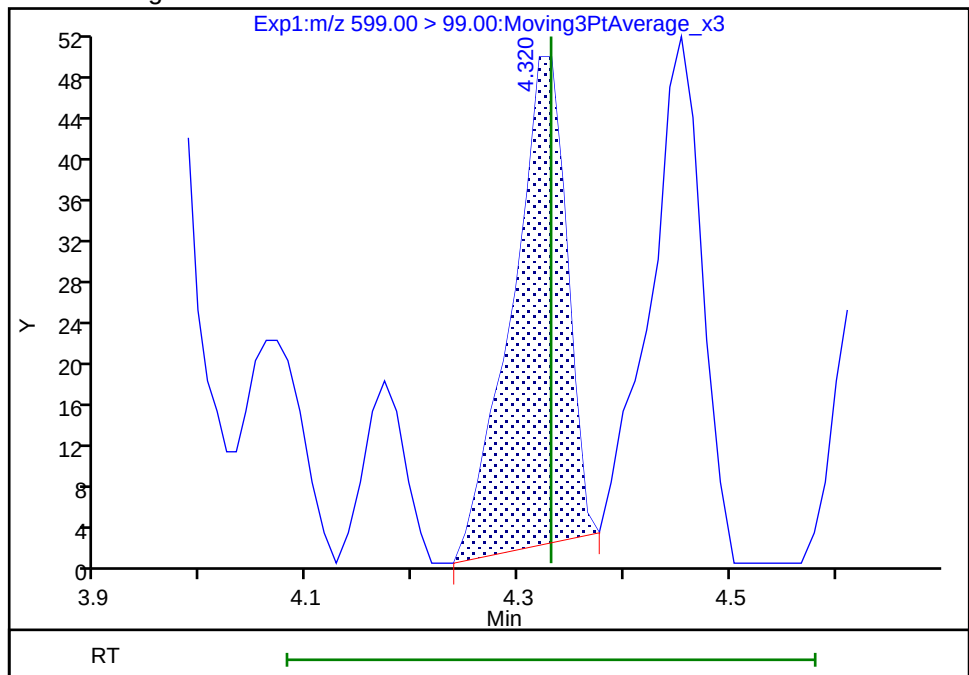
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 173
Amount: 0.000668
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:51:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d

Injection Date: 16-Nov-2022 22:15:37

Instrument ID: LC812

Lims ID: 460-269226-A-3-A

Lab Sample ID: 200-269226-3

Client ID: BCS-09-22_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector: EXP1

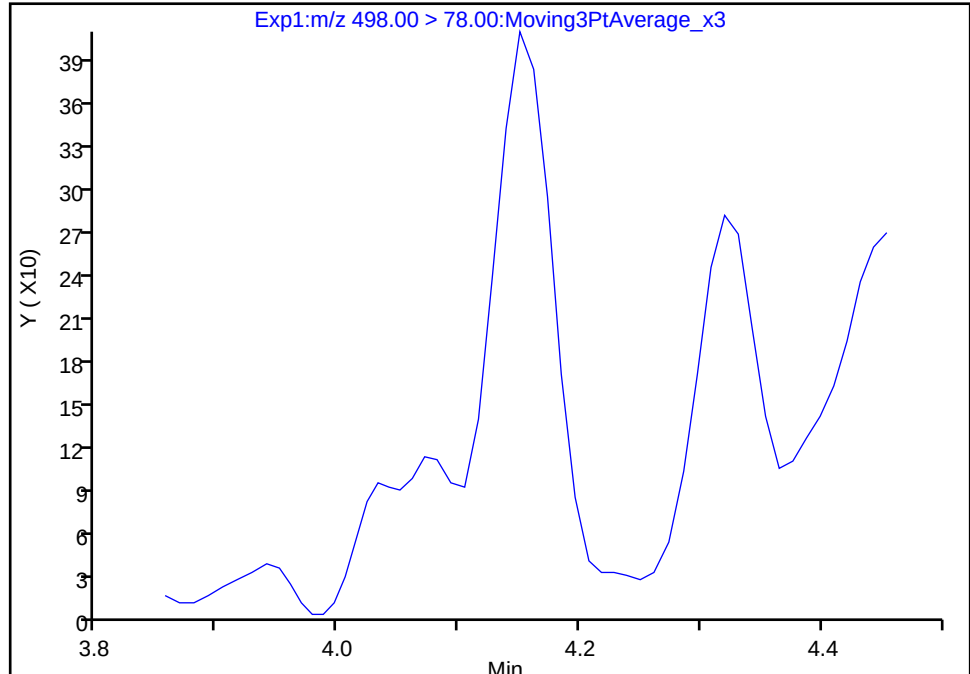
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

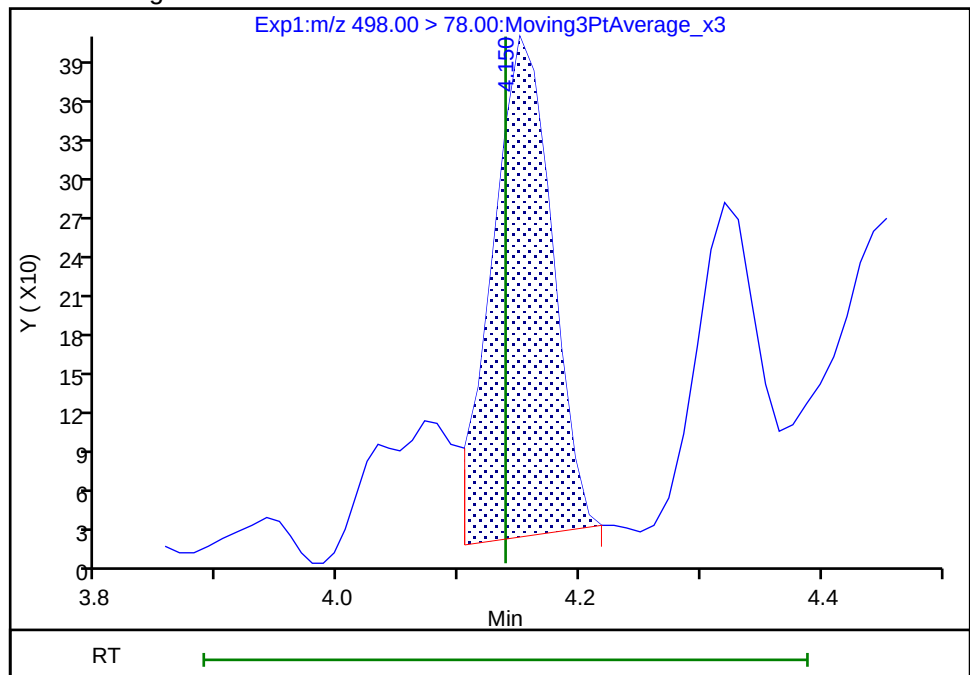
Not Detected

Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.15

Area: 1303

Amount: 0.001285

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:51:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

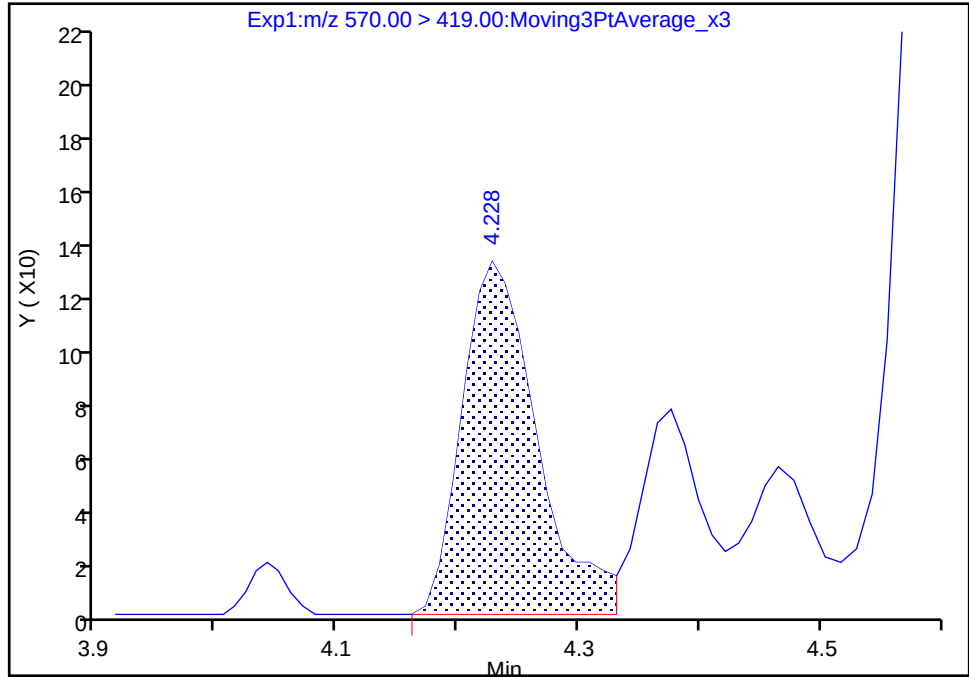
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

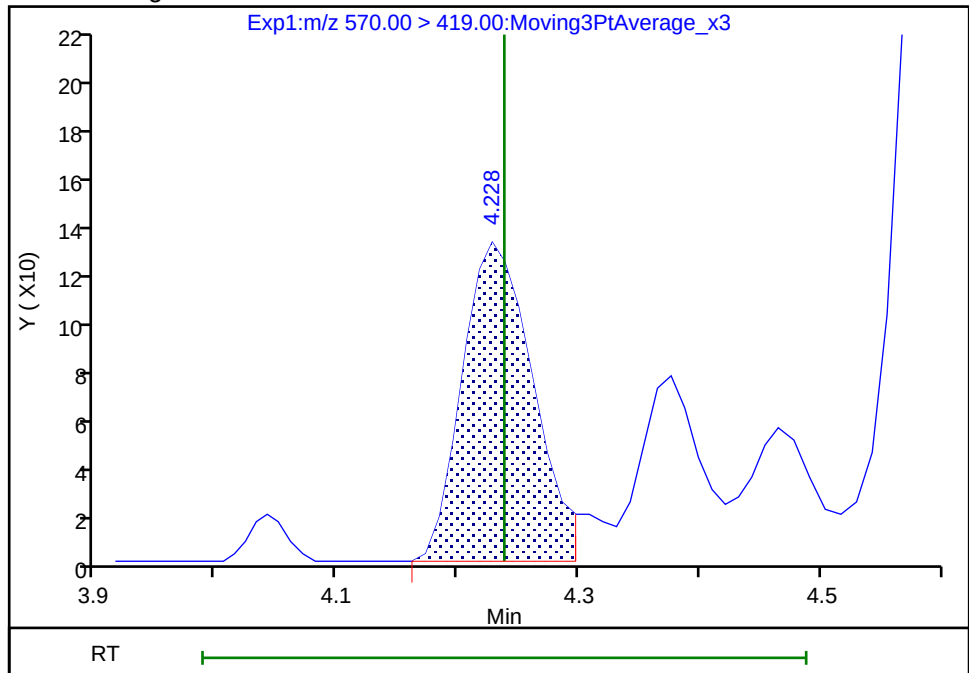
RT: 4.23
Area: 554
Amount: 0.002072
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 519
Amount: 0.001941
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:51:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

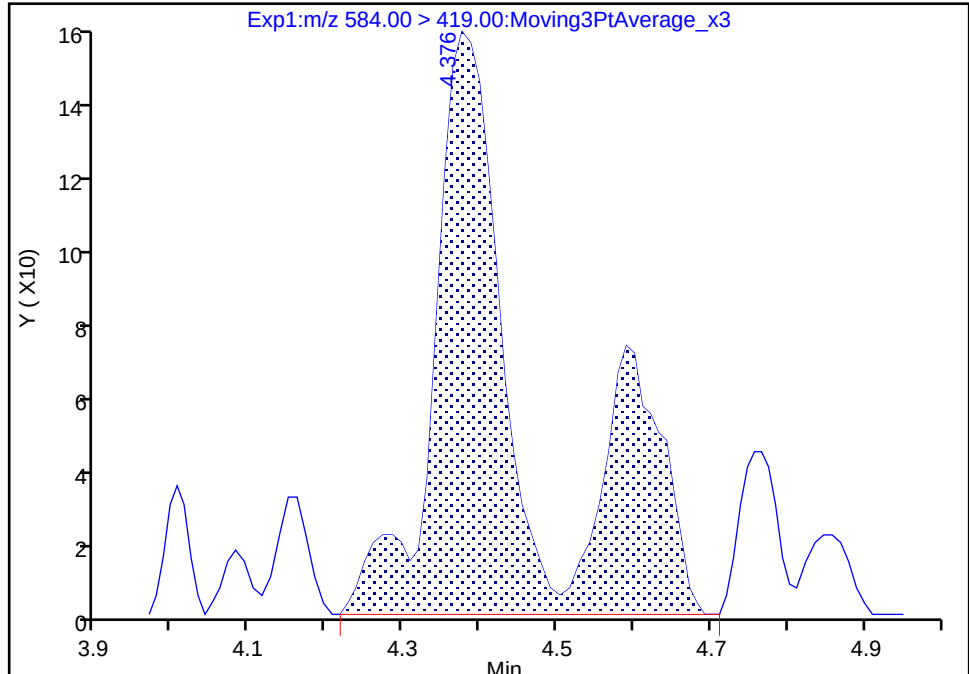
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d				
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812		
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3		
Client ID:	BCS-09-22_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	17
Injection 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

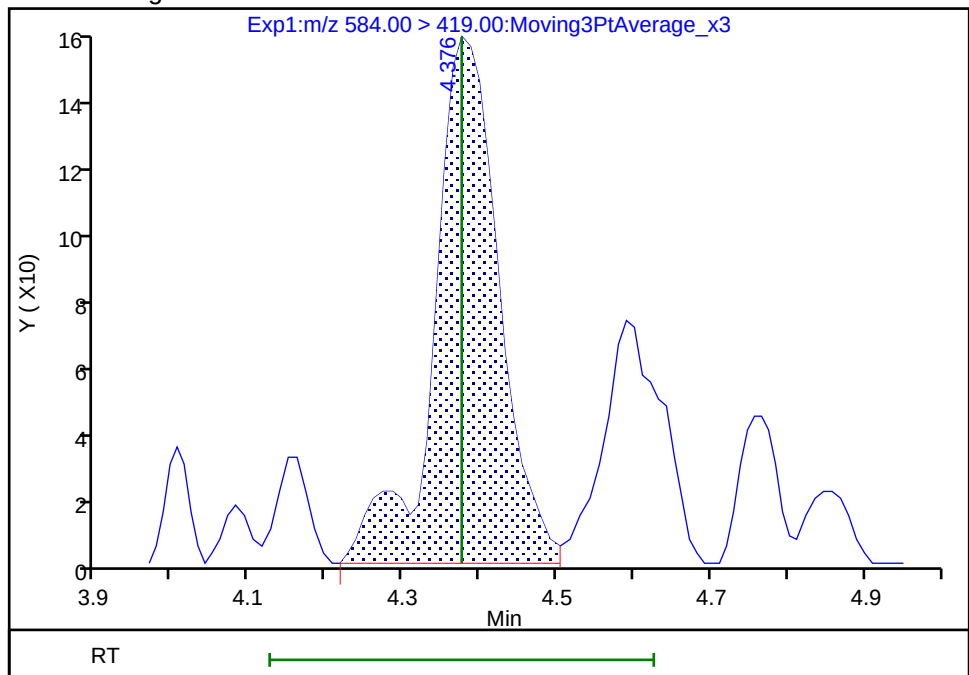
RT: 4.38
Area: 1289
Amount: 0.004880
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 910
Amount: 0.003445
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:51:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

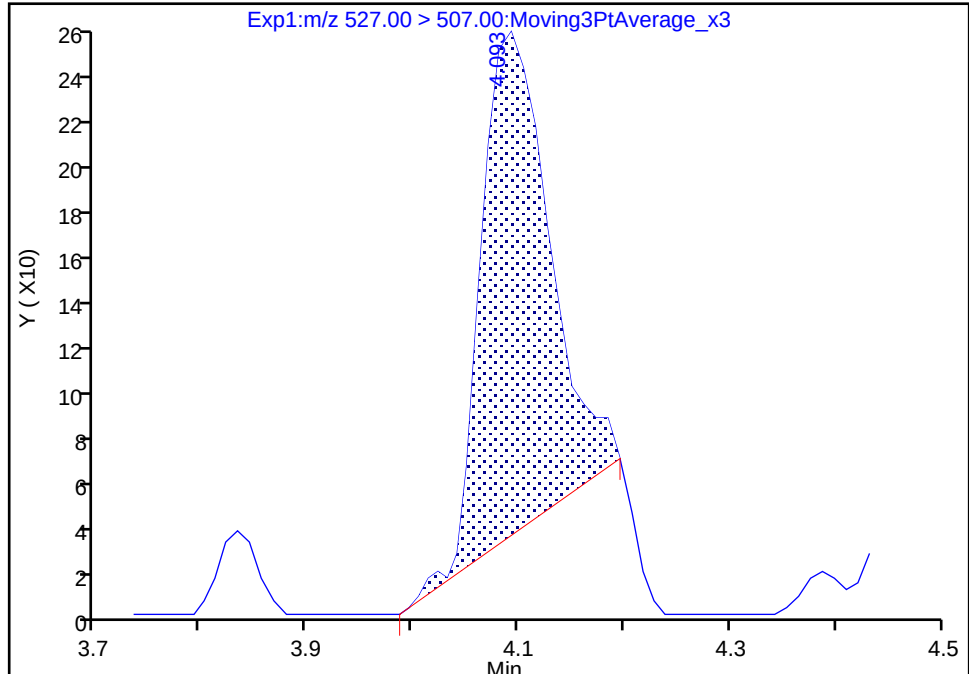
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d
Injection Date: 16-Nov-2022 22:15:37 Instrument ID: LC812
Lims ID: 460-269226-A-3-A Lab Sample ID: 200-269226-3
Client ID: BCS-09-22_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 20.0 ul 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

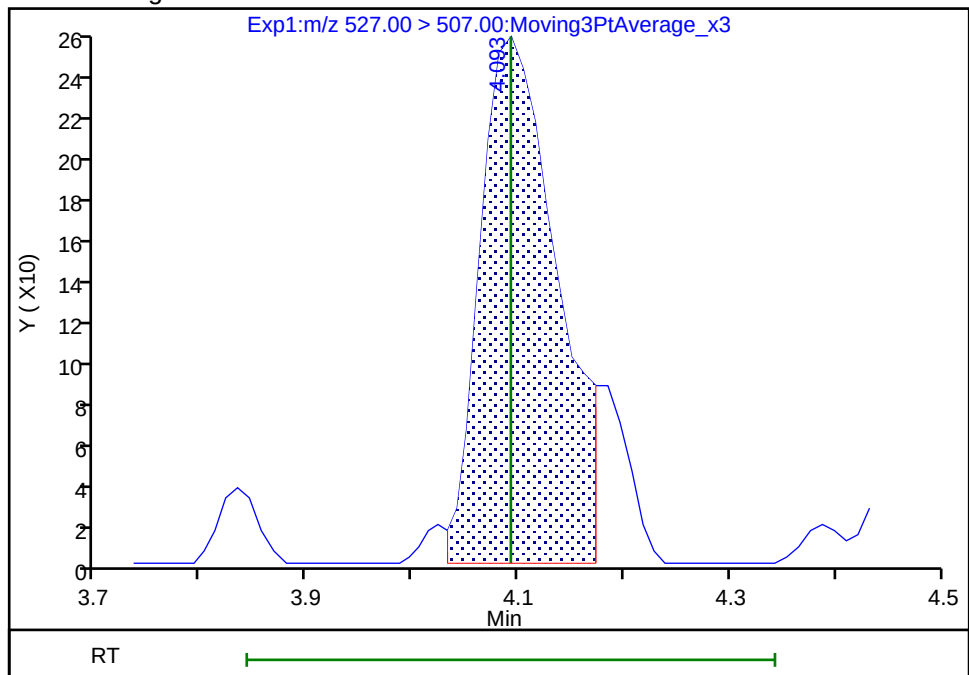
RT: 4.09
Area: 1008
Amount: 0.004361
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 1297
Amount: 0.005611
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:51:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

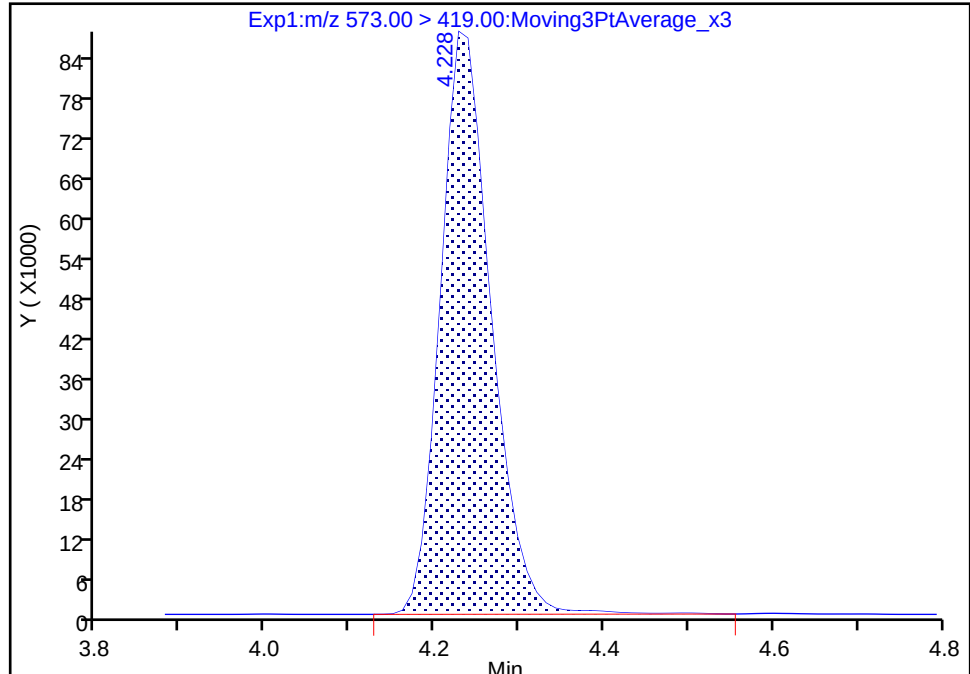
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D17.d		
Injection Date:	16-Nov-2022 22:15:37	Instrument ID:	LC812
Lims ID:	460-269226-A-3-A	Lab Sample ID:	200-269226-3
Client ID:	BCS-09-22_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	17

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

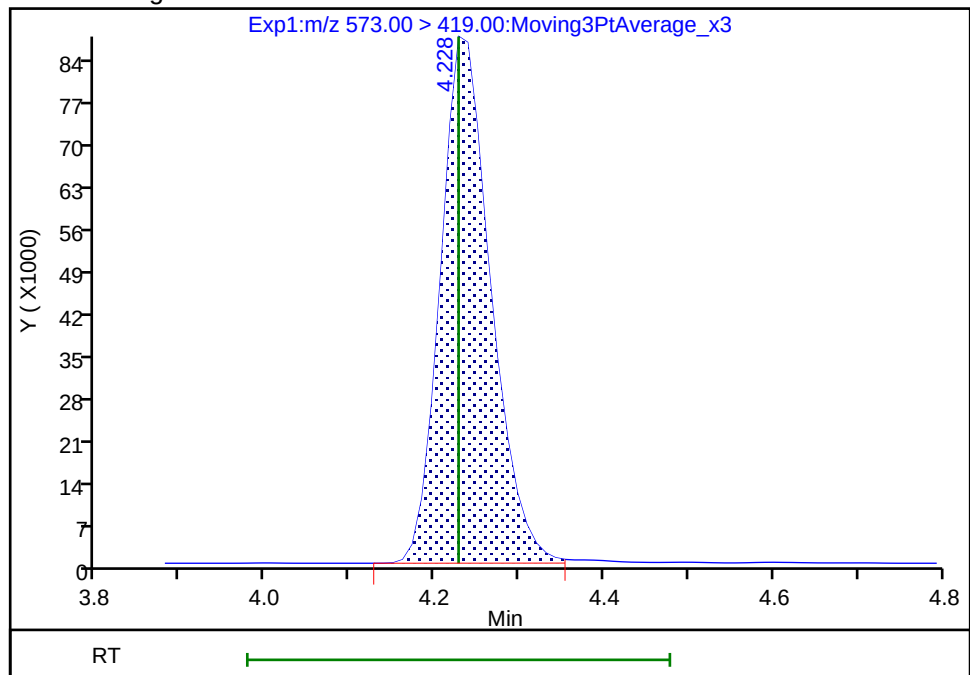
RT: 4.23
Area: 363915
Amount: 1.426673
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 361410
Amount: 1.416852
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:48:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: BCS-09-23_(10-10.5)P Lab Sample ID: 460-269226-4

Matrix: Solid Lab File ID: PA221116D18.d

Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:35

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.17(g) Date Analyzed: 11/16/2022 22:23

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

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

% Moisture: 36.7 % Solids: 63.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.76	U	0.76	0.50
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.096	J	0.31	0.084
307-24-4	Perfluorohexanoic acid (PFHxA)	0.083	J	0.31	0.070
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.31	U	0.31	0.060
335-67-1	Perfluorooctanoic acid (PFOA)	0.31	U	0.31	0.089
375-95-1	Perfluorononanoic acid (PFNA)	0.31	U	0.31	0.052
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	0.31	0.043
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.31	U	0.31	0.041
307-55-1	Perfluorododecanoic acid (PFDoA)	0.31	U	0.31	0.038
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.31	U	0.31	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.31	U	0.31	0.040
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.31	U	0.31	0.050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.31	U	0.31	0.063
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.31	U	0.31	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.31	U	0.31	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	0.31	0.029
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.31	U	0.31	0.052
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.06	U	3.06	0.17
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.06	U	3.06	0.13
27619-97-2	6:2 FTS	3.06	U	3.06	0.087
39108-34-4	8:2 FTS	3.06	U	3.06	0.057

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: BCS-09-23_(10-10.5)P Lab Sample ID: 460-269226-4

Matrix: Solid Lab File ID: PA221116D18.d

Analysis Method: 537 (modified) Date Collected: 11/09/2022 13:35

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.17(g) Date Analyzed: 11/16/2022 22:23

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

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

% Moisture: 36.7 % Solids: 63.3 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	78		50-150
STL01892	13C4 PFHpA	83		50-150
STL00990	13C4 PFOA	84		50-150
STL00991	13C4 PFOS	75		50-150
STL00995	13C5 PFNA	84		50-150
STL00992	13C4 PFBA	82		50-150
STL00993	13C2 PFHxA	82		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	104		50-150
STL00998	13C2 PFDoA	95		50-150
STL01056	13C8 FOSA	71		50-150
STL01893	13C5 PFPeA	80		50-150
STL02116	13C2 PFTeDA	76		50-150
STL02118	d3-NMeFOSAA	123		50-150
STL02117	d5-NEtFOSAA	136		50-150
STL02279	M2-6:2 FTS	98		50-150
STL02280	M2-8:2 FTS	113		50-150
STL02337	13C3 PFBS	77		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
 Lims ID: 460-269226-A-4-A
 Client ID: BCS-09-23_(10-10.5)P
 Sample Type: Client
 Inject. Date: 16-Nov-2022 22:23:47 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-269226-A-4-A
 Misc. Info.: 200-0053360-018 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 18-Nov-2022 10:54:27 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1616

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:55:54

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	2.077	2.068	0.009	0.602	2354835	1.03		82.5	5213	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.076	0.001	1.000	80913	0.0424			5.2	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.688	1800377	1.00		80.2	2197	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	48450	0.0314			0.7	M
D 47 13C3 PFBS										
301.90 > 80.00	2.387	2.386	0.001	0.692	1631709	0.8963		77.1	109259	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.400	2.400	0.0	1.006	2334	0.001442	Target=2.19		0.7	R
298.90 > 99.00	2.414	2.400	0.014	1.011	2827		0.83(1.09-3.28)		0.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.726	2.725	0.001	0.791	1878446	1.03		82.2	3517	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	0.996	44200	0.0271	Target=13.67		3.5	M
313.00 > 119.00	2.726	2.725	0.001	1.000	2532		17.46(6.83-20.50)		1.6	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1191321	0.9165		77.5	3123	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.099	3.088	0.011	1.004	5233	0.004465	Target=3.60		1.5	R
399.00 > 99.00	3.121	3.088	0.033	1.011	97798		0.05(1.80-5.40)		3.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.088	0.0	0.896	1869167	1.04		83.3	4551	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.088	0.011	1.004	10328	0.006197	Target=3.76		1.1	M
363.00 > 169.00	3.088	3.088	0.0	1.000	2209		4.68(1.88-5.65)		3.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.439	3.430	0.009	0.997	258799	1.17		98.2	120	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.430	3.430	0.0	0.997	410	0.001033			2.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	2015156	1.05		84.0	4712	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2340597	1.25			2891	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.439	0.009	1.000	6194	0.003394	Target=2.73		0.3	
413.00 > 169.00	3.448	3.439	0.009	1.000	1864		3.32(1.37-4.10)		2.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	768921	0.8977		75.1	508	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.774	3.764	0.010	1.003	15367	0.0197	Target=5.09		1.1	RM
499.00 > 99.00	3.607	3.764	-0.157	0.958	560710		0.03(2.55-7.64)		30.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	1989332	1.05		84.3	3496	
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.093	-0.011	1.184	2073910	1.13		90.4	9335	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	354692	1.35		113	266	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.093	0.011	1.003	479	0.001305			6.5	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1327815	0.8883		71.1	2440	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.138	0.012	1.000	575	0.000536			2.4	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	396142	1.53		123	881	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.365	4.238	0.127	1.032	502	0.001713			1.8	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.354	4.365	-0.011	1.263	1961157	1.31		104	4998	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	434746	1.70		136	616	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.376	0.0	1.003	455	0.001432			2.6	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.602	0.0	1.335	1742564	1.19		95.1	3707	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.602	4.602	0.0	1.000	2912	0.001955	Target=6.96		0.3	
613.00 > 169.00	4.591	4.602	-0.011	0.998	331		8.80(3.48-10.43)		2.0	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.454	1187372	0.9482		75.9	3632	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d

Injection Date: 16-Nov-2022 22:23:47

Instrument ID: LC812

Lims ID: 460-269226-A-4-A

Lab Sample ID: 200-269226-4

Client ID: BCS-09-23_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

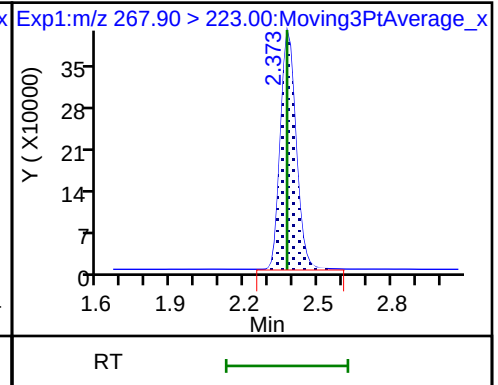
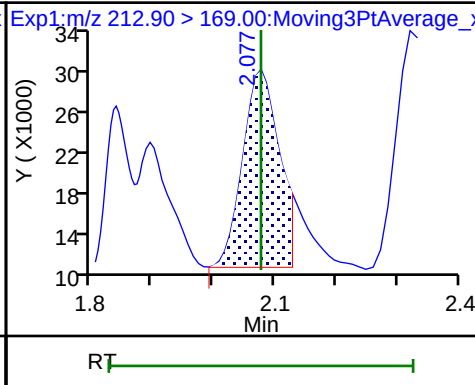
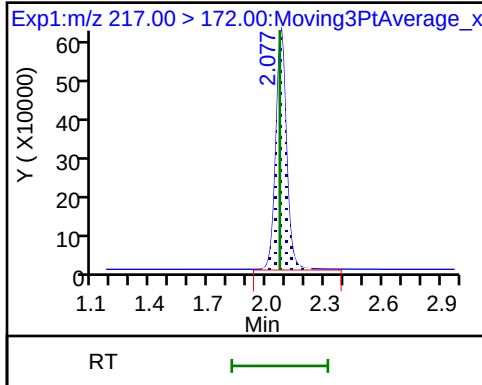
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

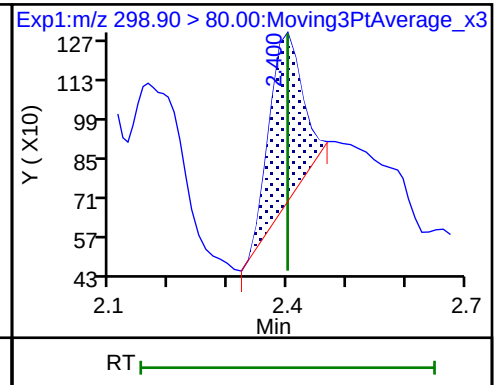
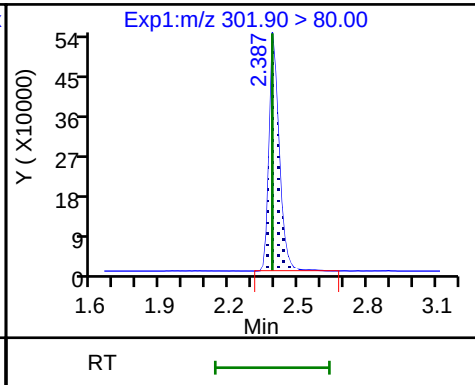
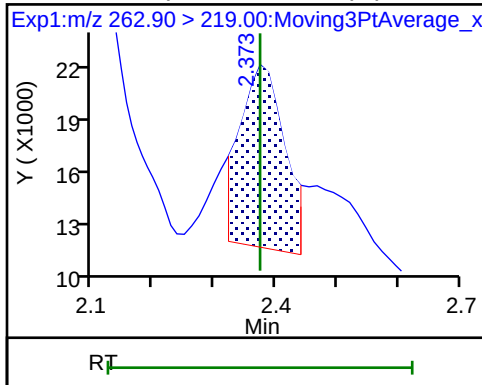
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

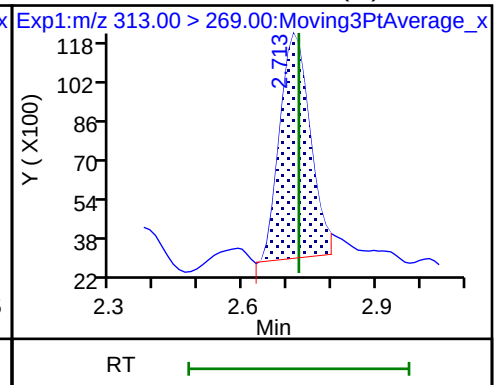
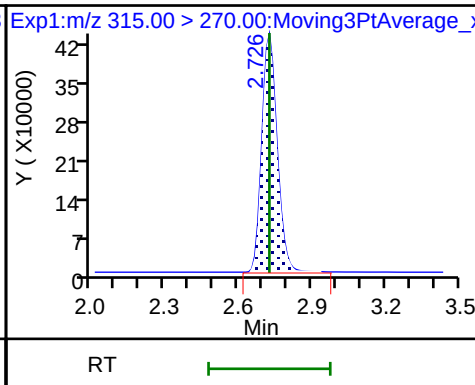
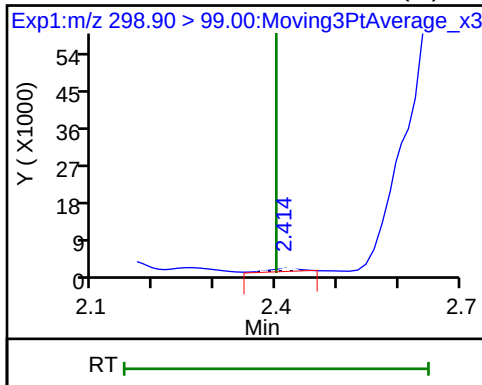
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

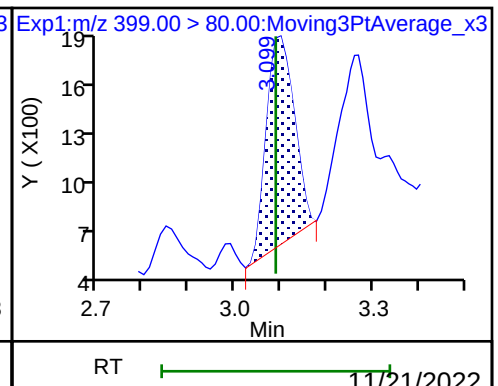
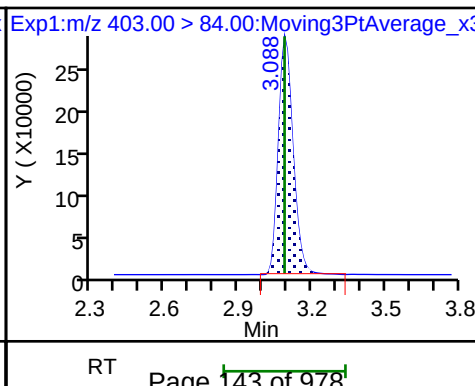
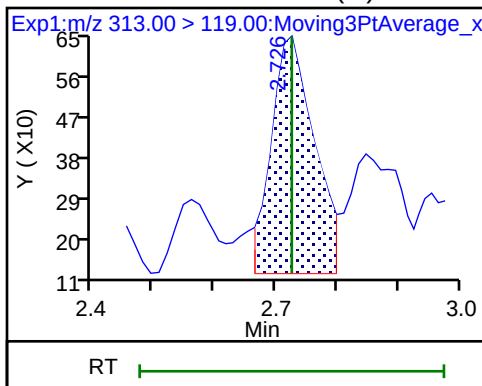
6 Perfluorohexanoic acid (M)

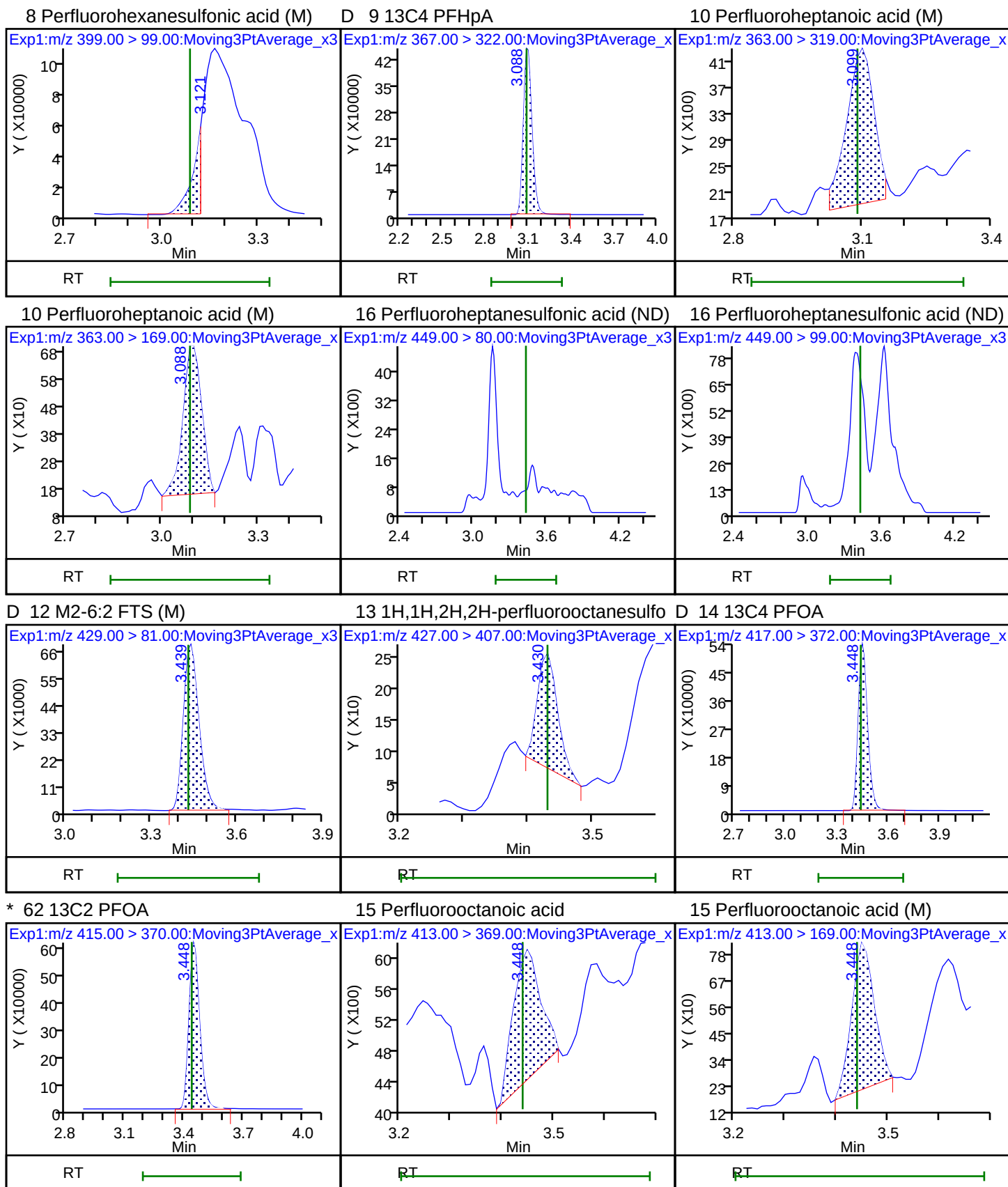


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid

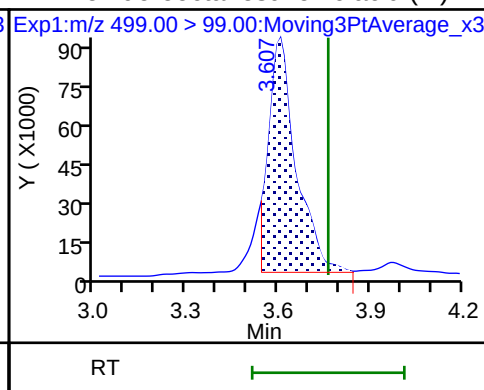
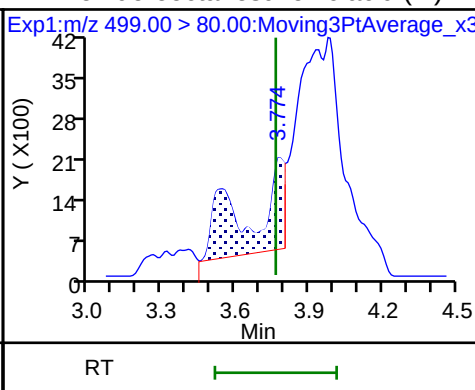
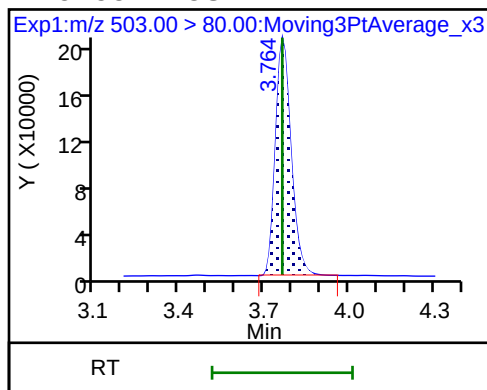




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

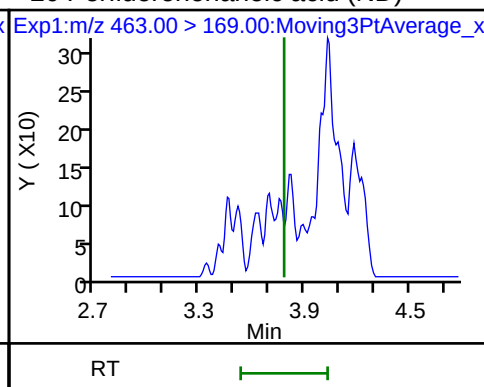
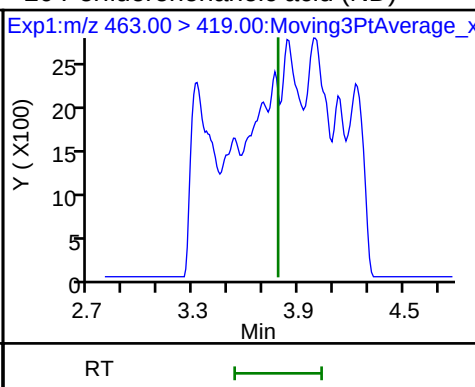
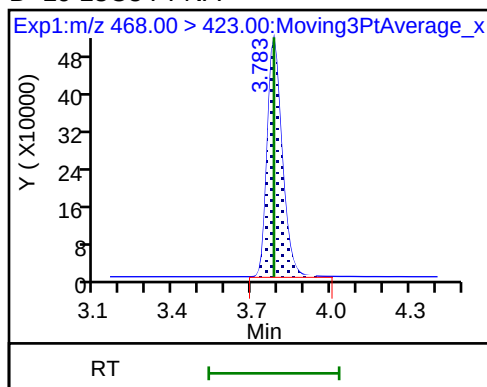
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

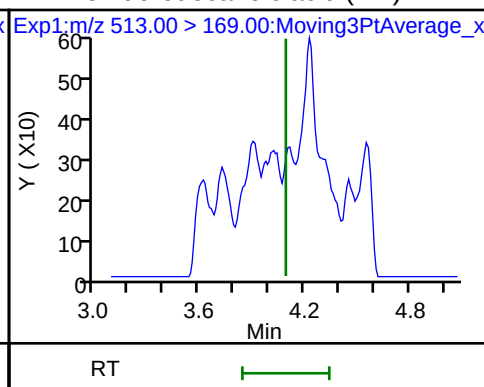
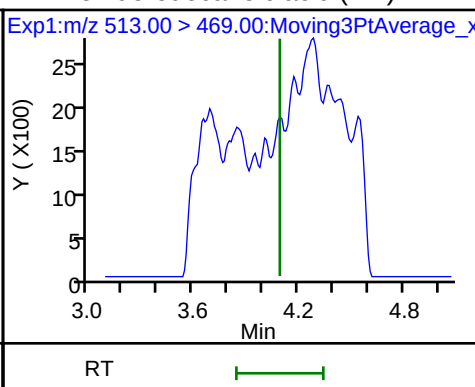
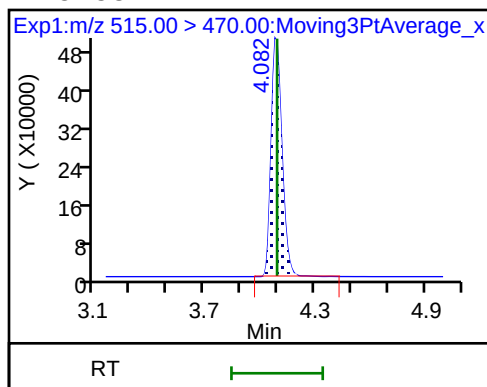
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (ND)

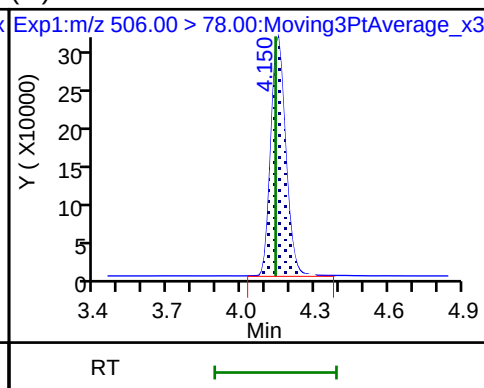
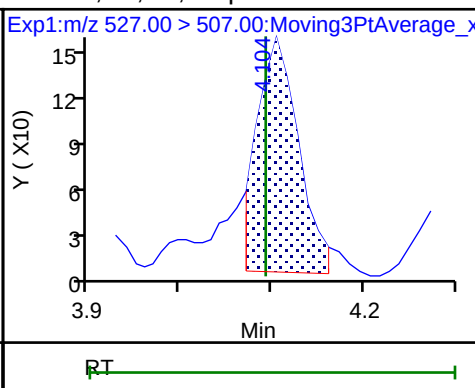
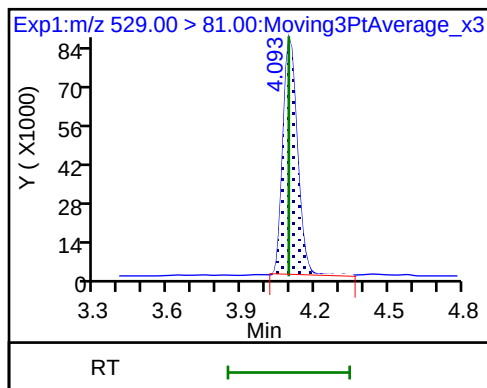
24 Perfluorodecanoic acid (ND)

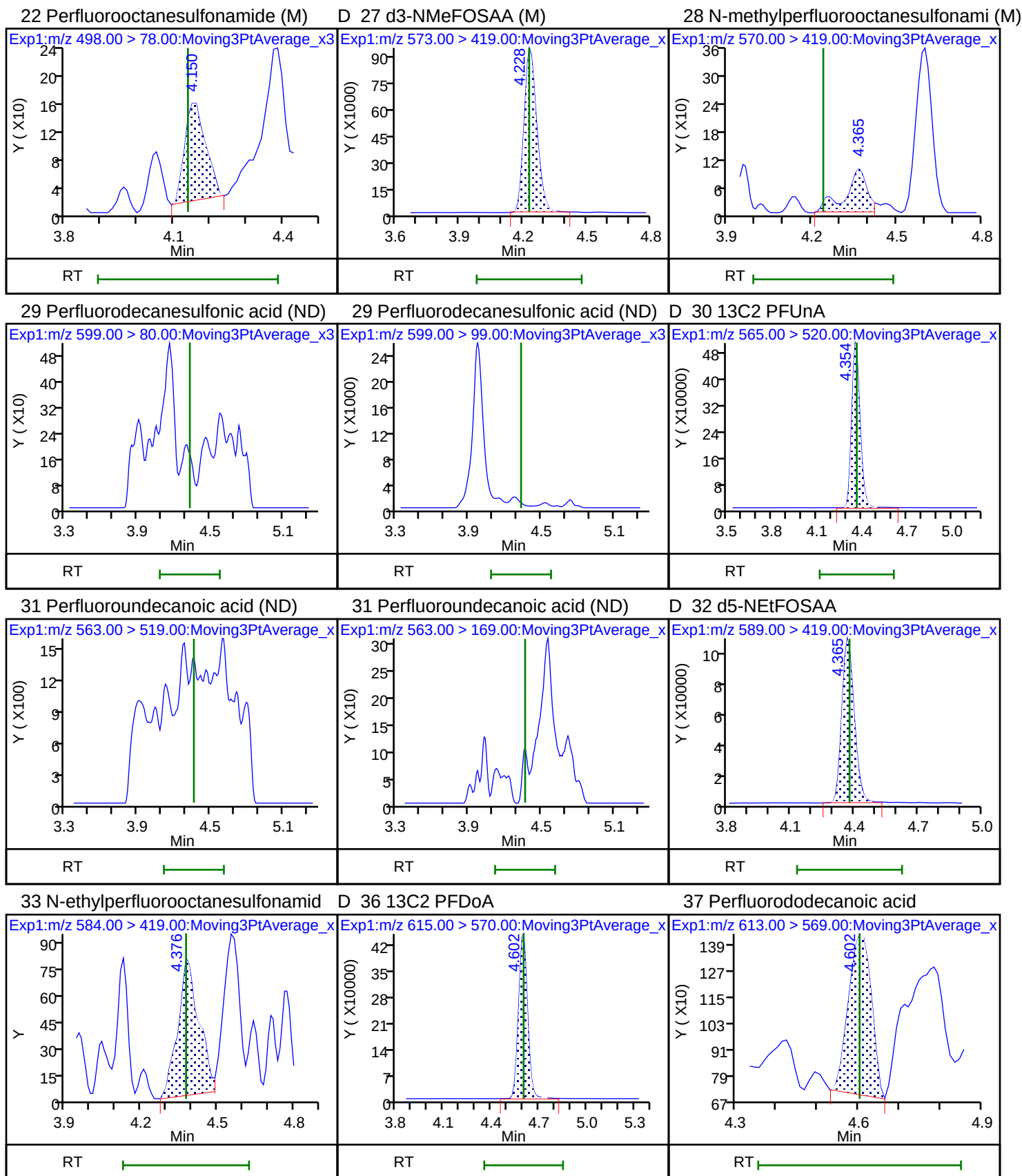


D 26 M2-8:2 FTS

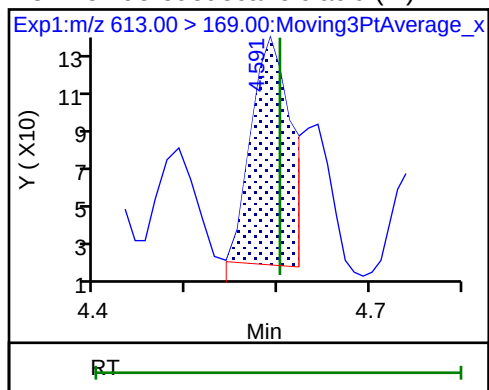
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

21 13C8 FOSA

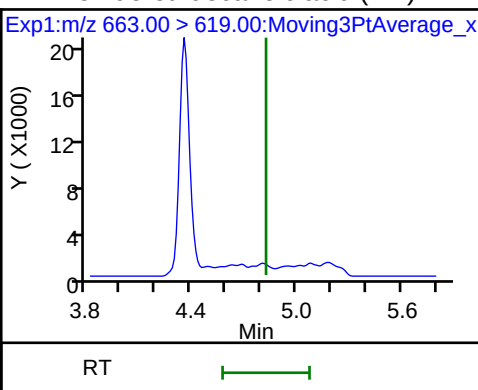




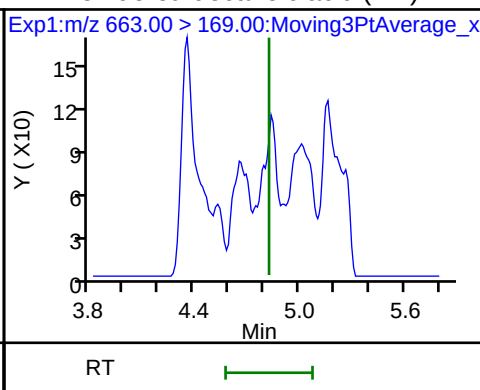
37 Perfluorododecanoic acid (M)



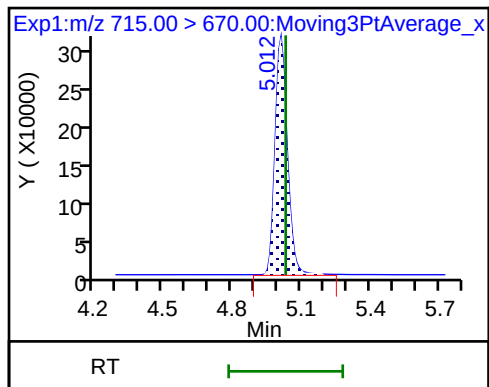
41 Perfluorotridecanoic acid (ND)



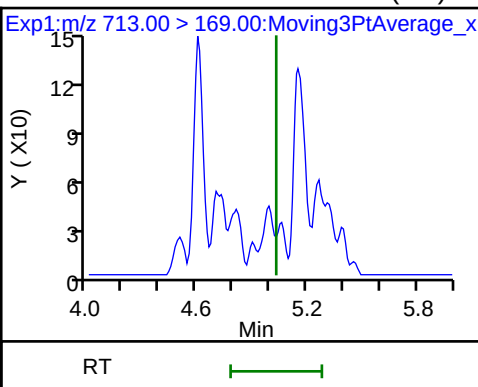
41 Perfluorotridecanoic acid (ND)



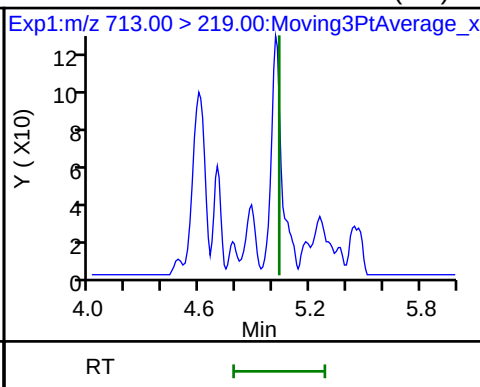
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



Eurofins Burlington

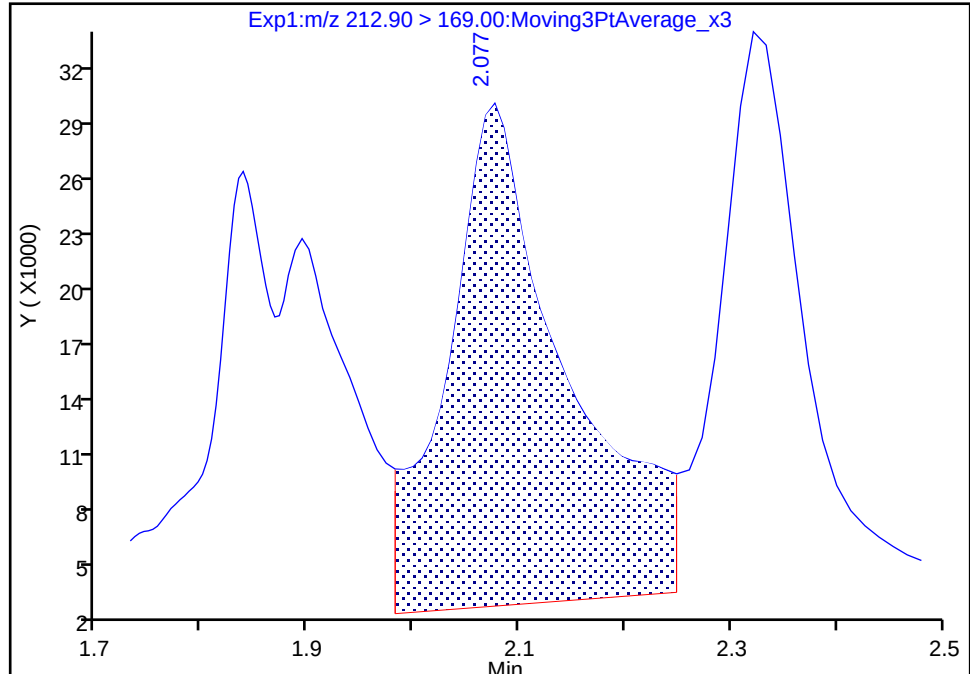
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection 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

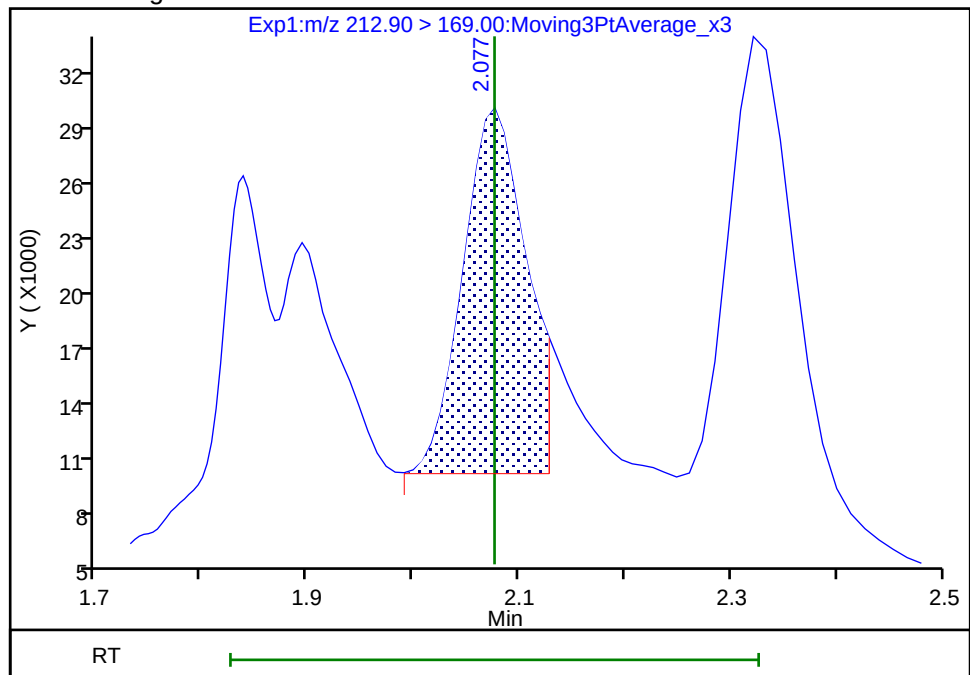
RT: 2.08
Area: 207931
Amount: 0.109017
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 80913
Amount: 0.042422
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:52:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

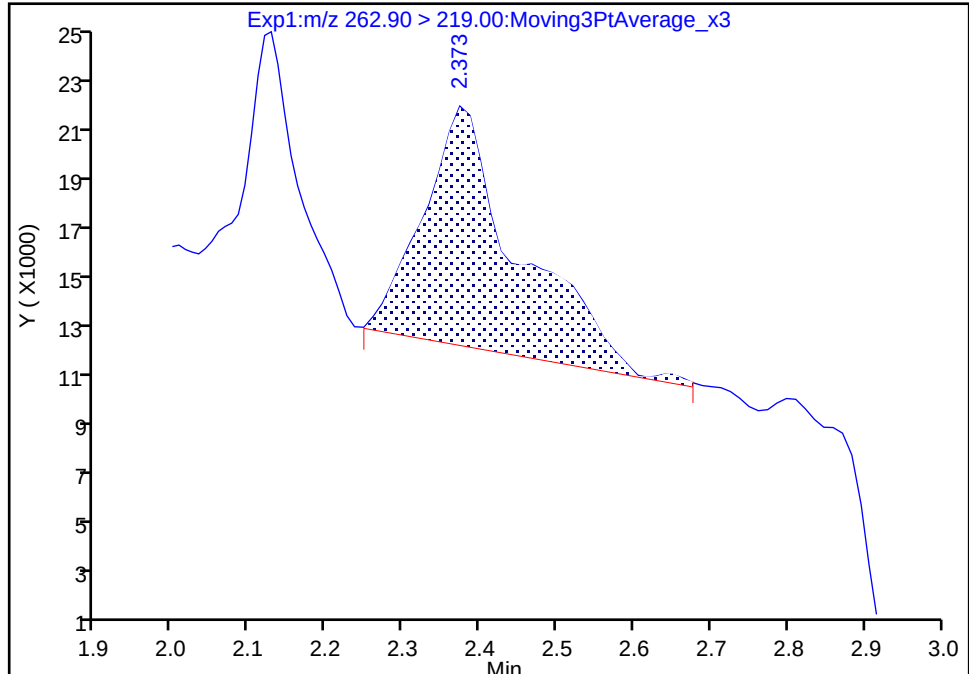
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

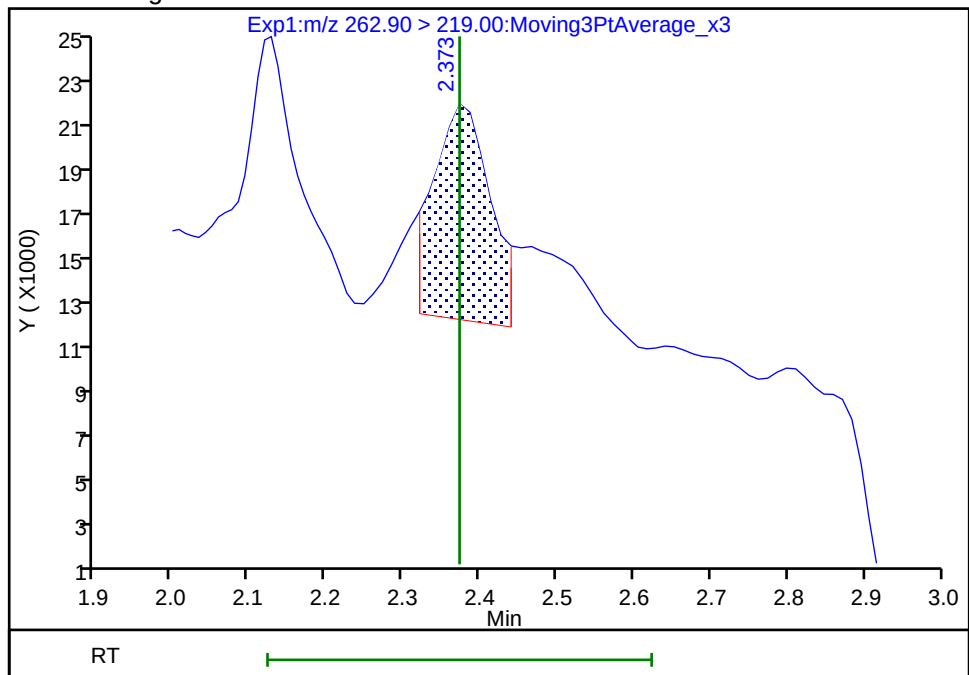
RT: 2.37
Area: 82715
Amount: 0.053679
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 48450
Amount: 0.031442
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:52:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

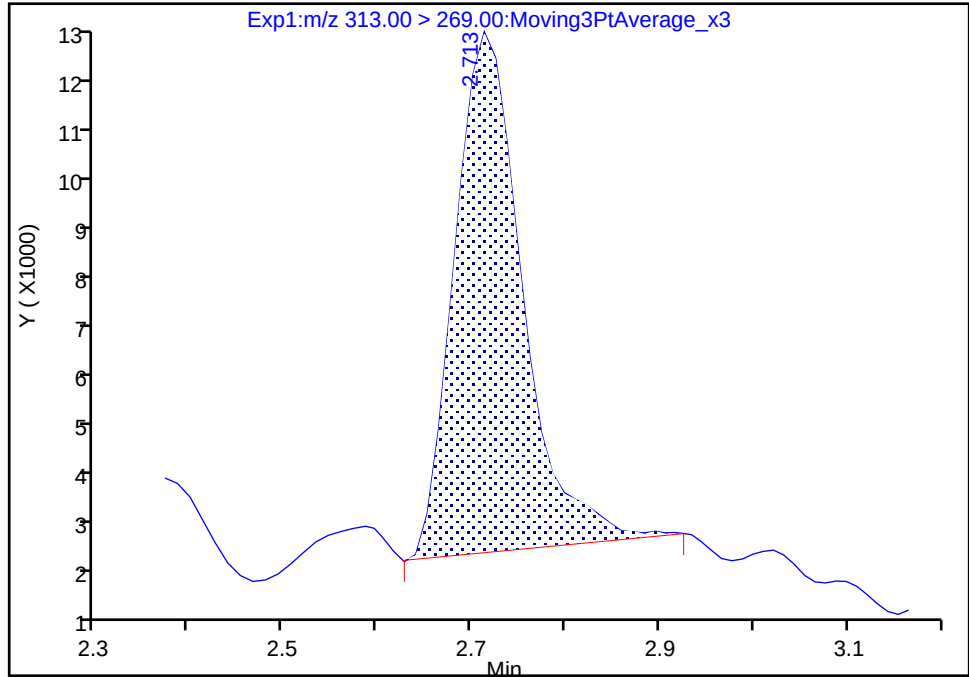
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection 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

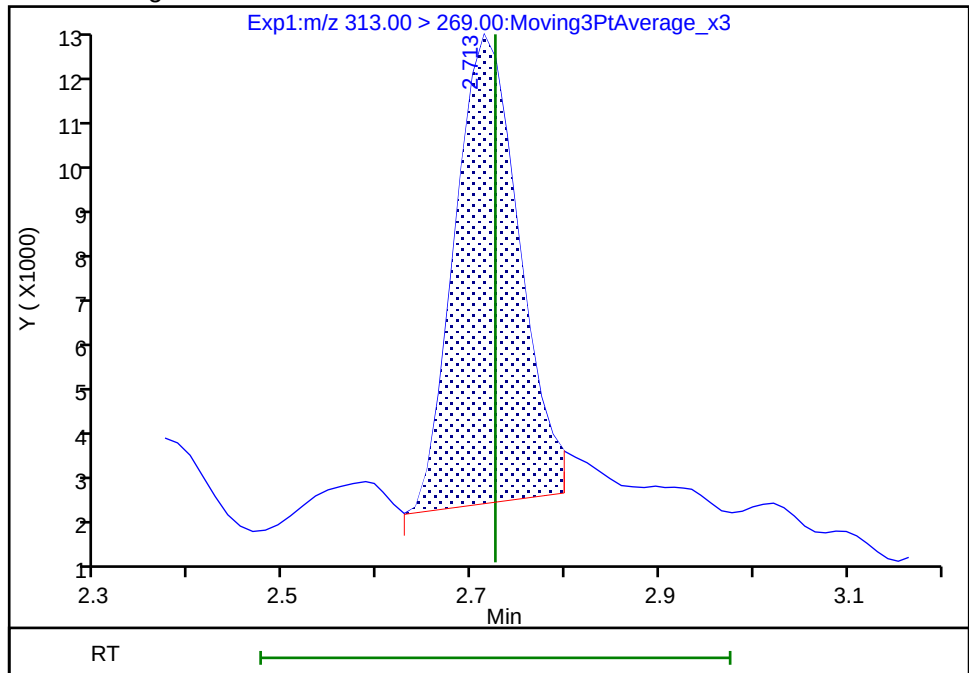
RT: 2.71
Area: 47189
Amount: 0.028924
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 44200
Amount: 0.027092
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:53:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

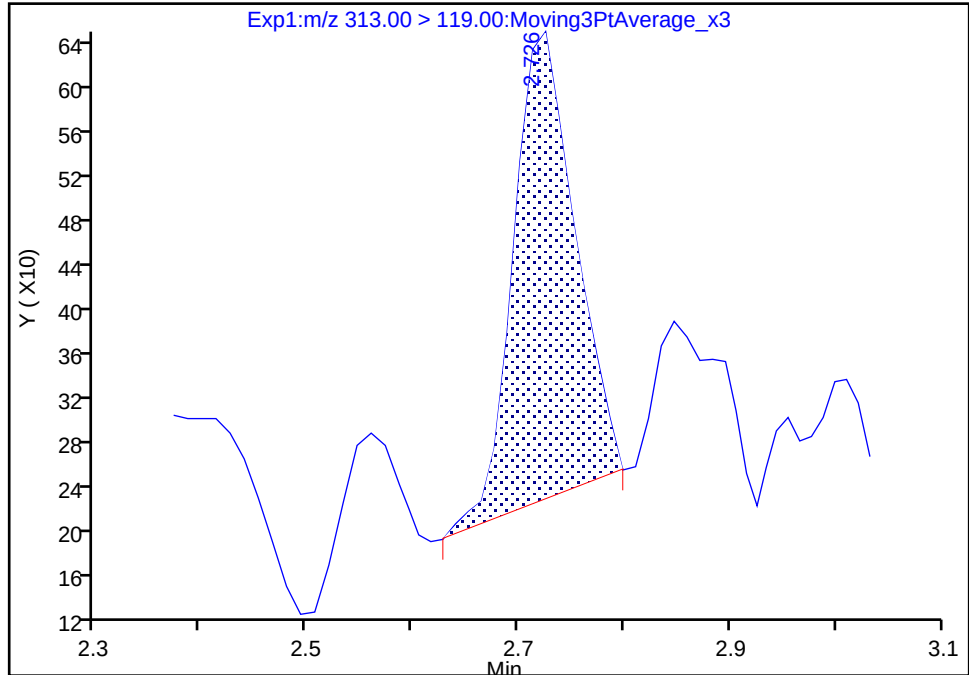
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

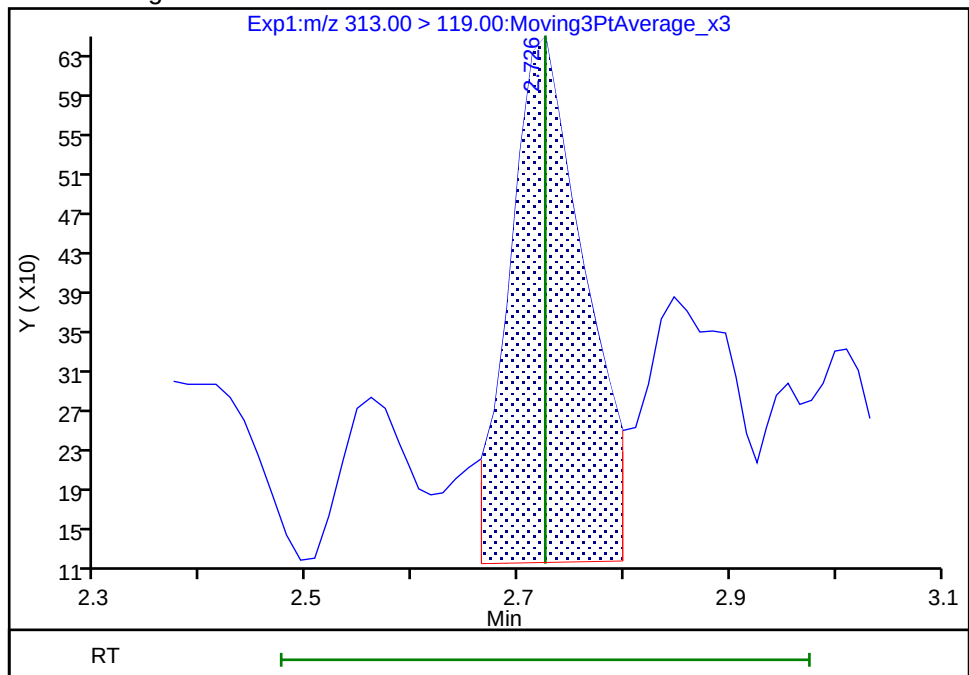
RT: 2.73
Area: 1707
Amount: 0.028924
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 2532
Amount: 0.027092
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 18-Nov-2022 10:54:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 151 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d

Injection Date: 16-Nov-2022 22:23:47

Instrument ID: LC812

Lims ID: 460-269226-A-4-A

Lab Sample ID: 200-269226-4

Client ID: BCS-09-23_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

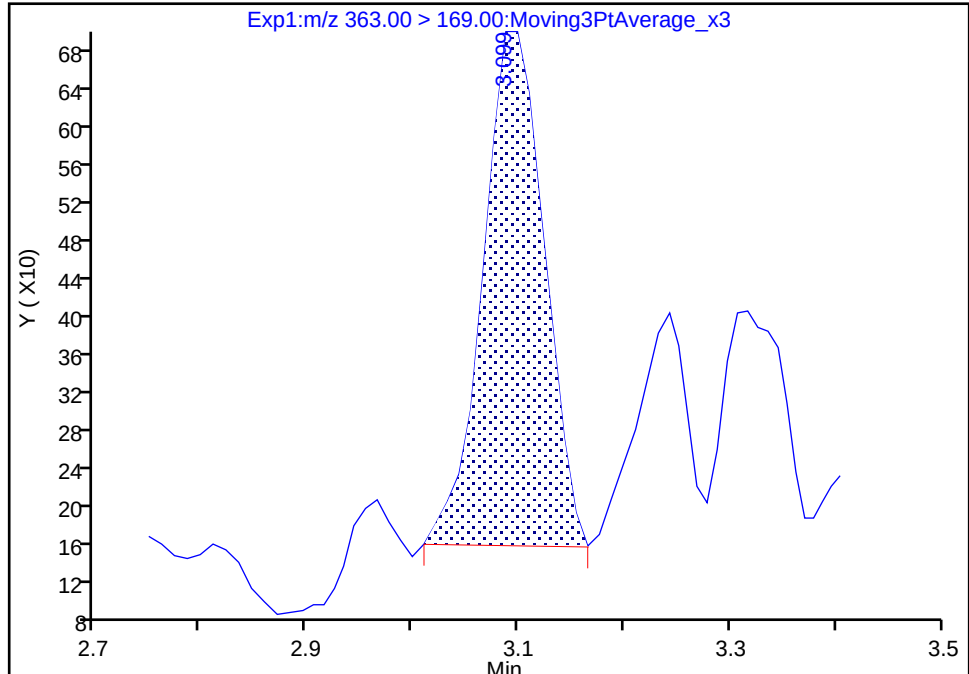
Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

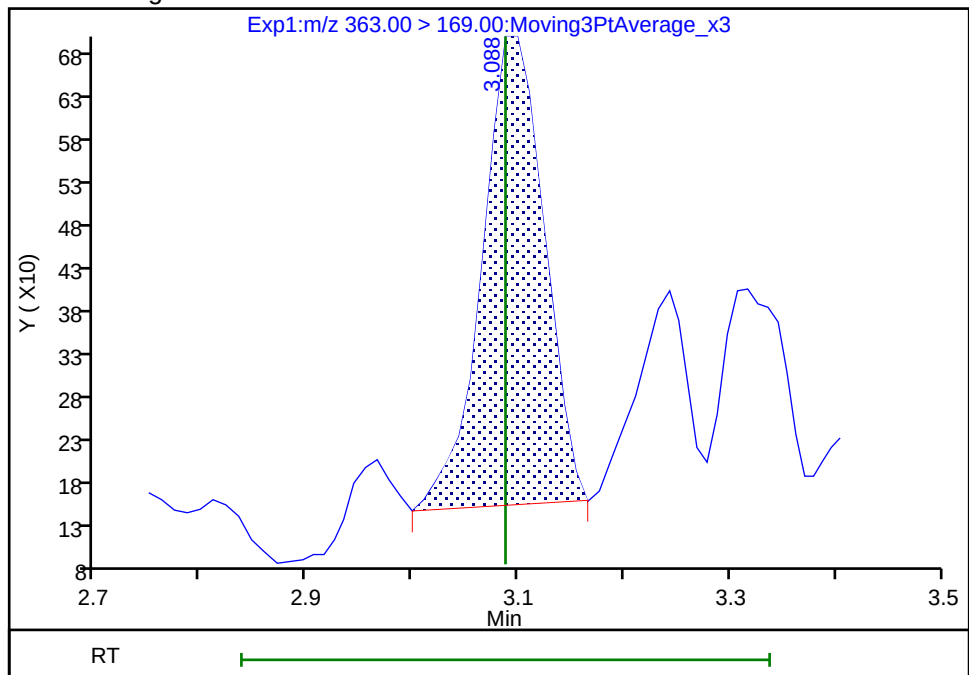
RT: 3.10
Area: 2147
Amount: 0.006321
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2209
Amount: 0.006197
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:54:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

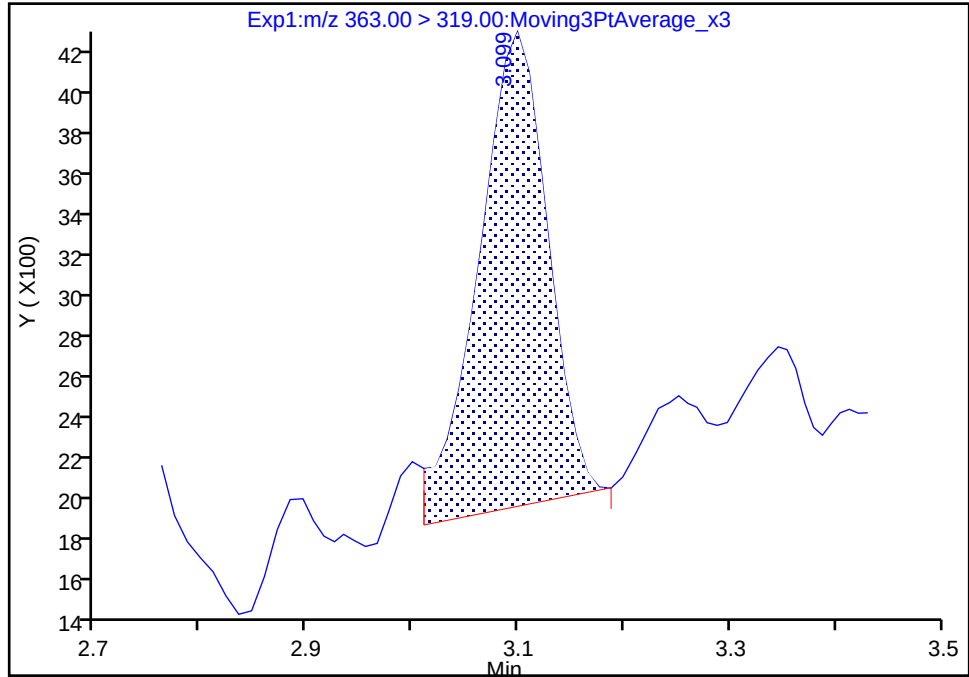
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

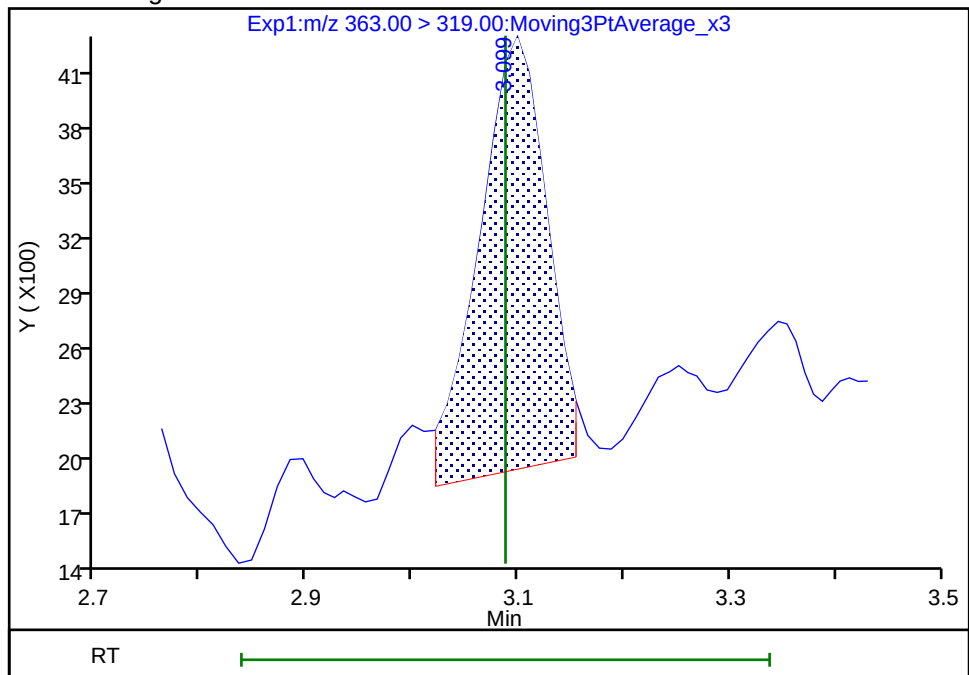
RT: 3.10
Area: 10534
Amount: 0.006321
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 10328
Amount: 0.006197
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:54:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

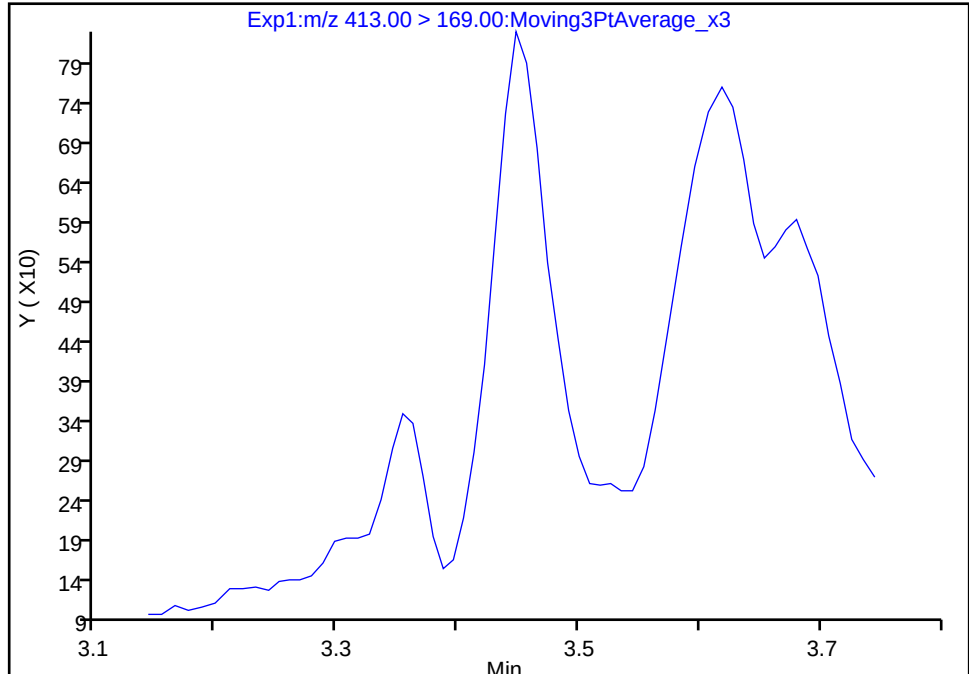
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

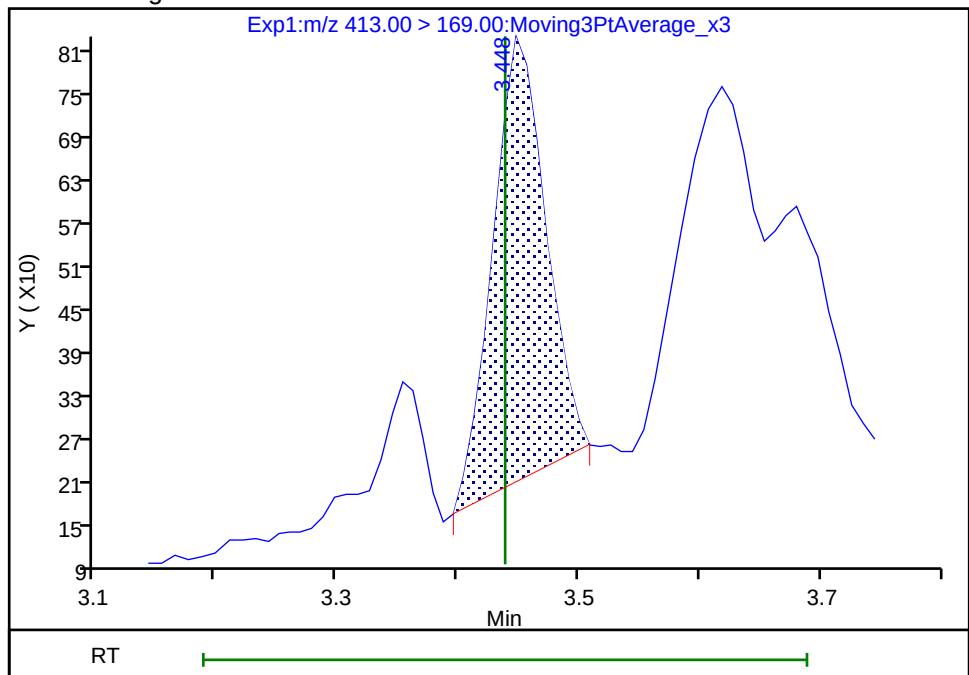
Signal: 2

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:54:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

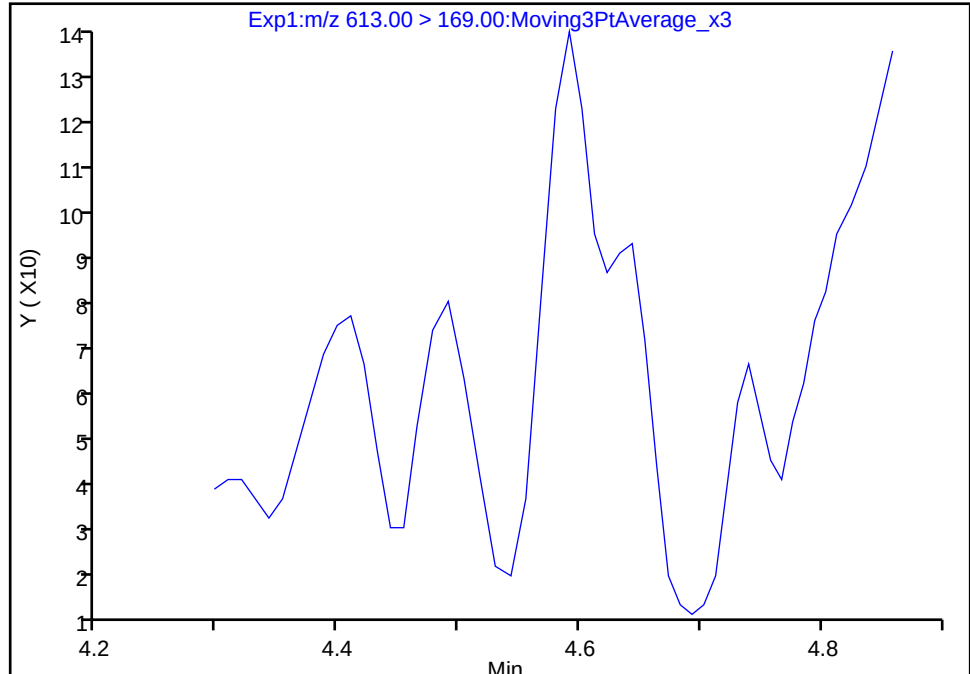
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection 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

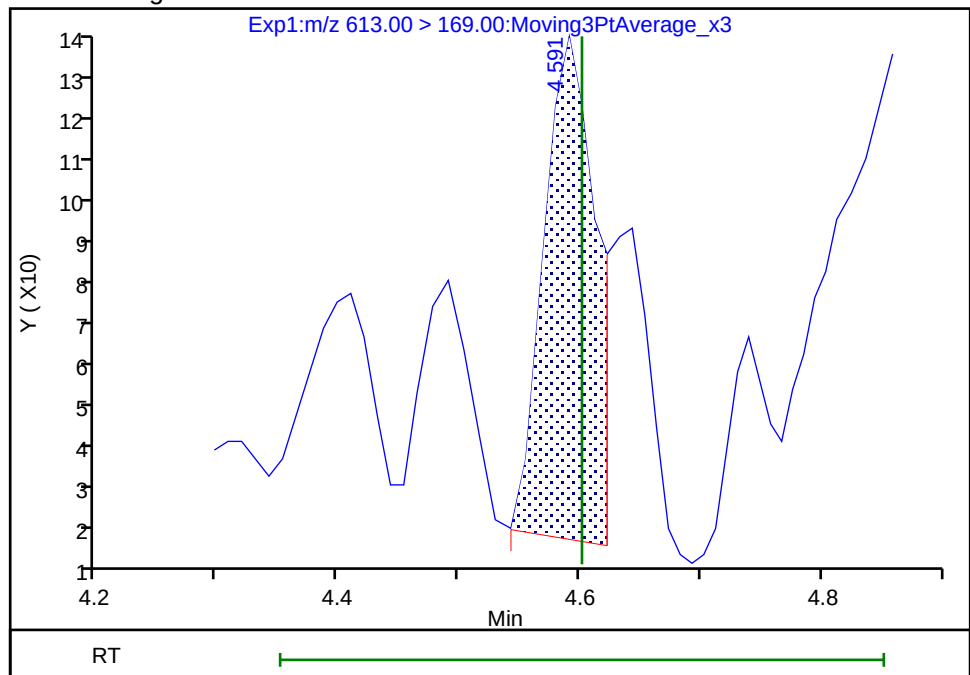
Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 331
Amount: 0.001955
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:55:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

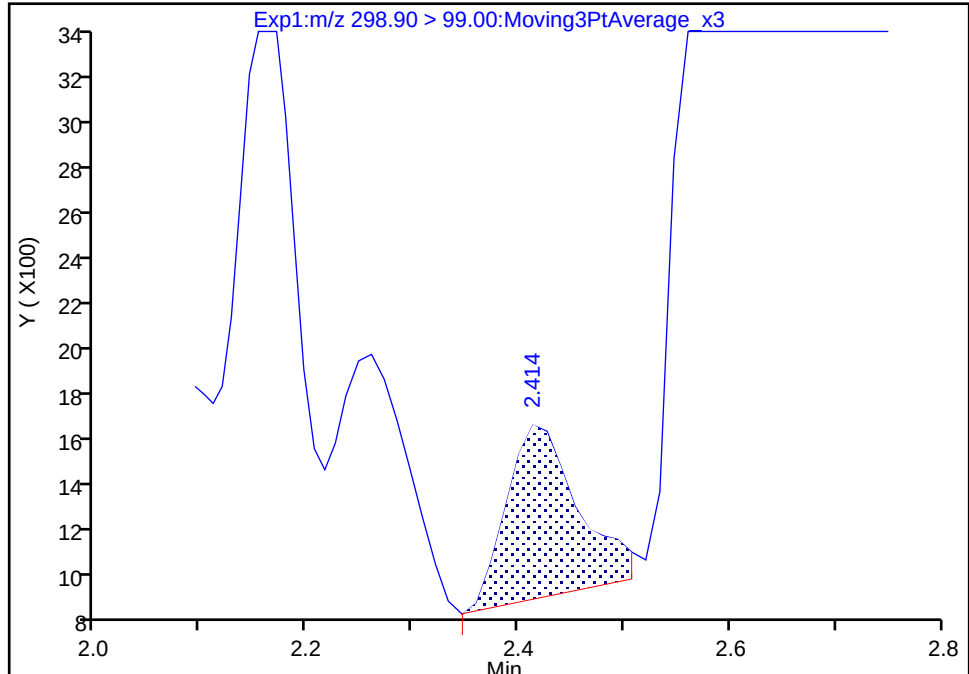
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

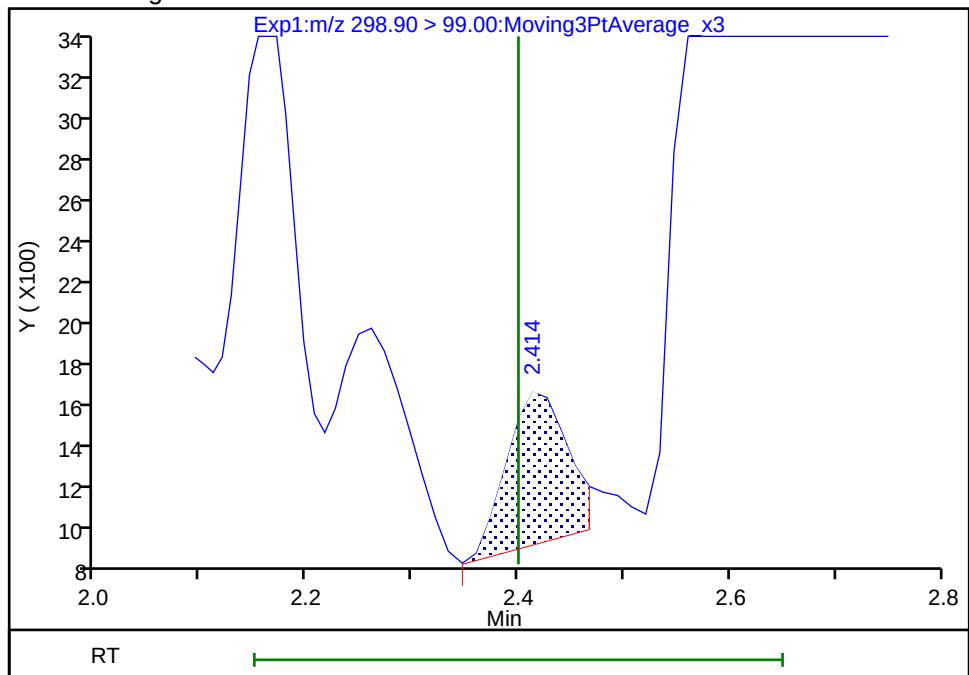
RT: 2.41
Area: 3439
Amount: 0.001442
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 2827
Amount: 0.001442
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:53:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

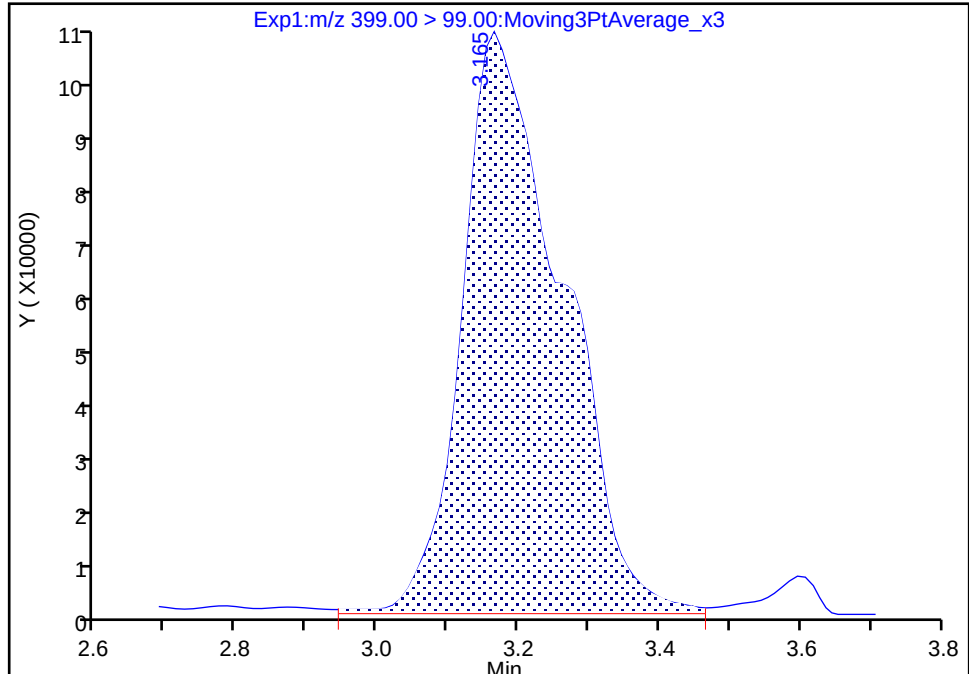
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection 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

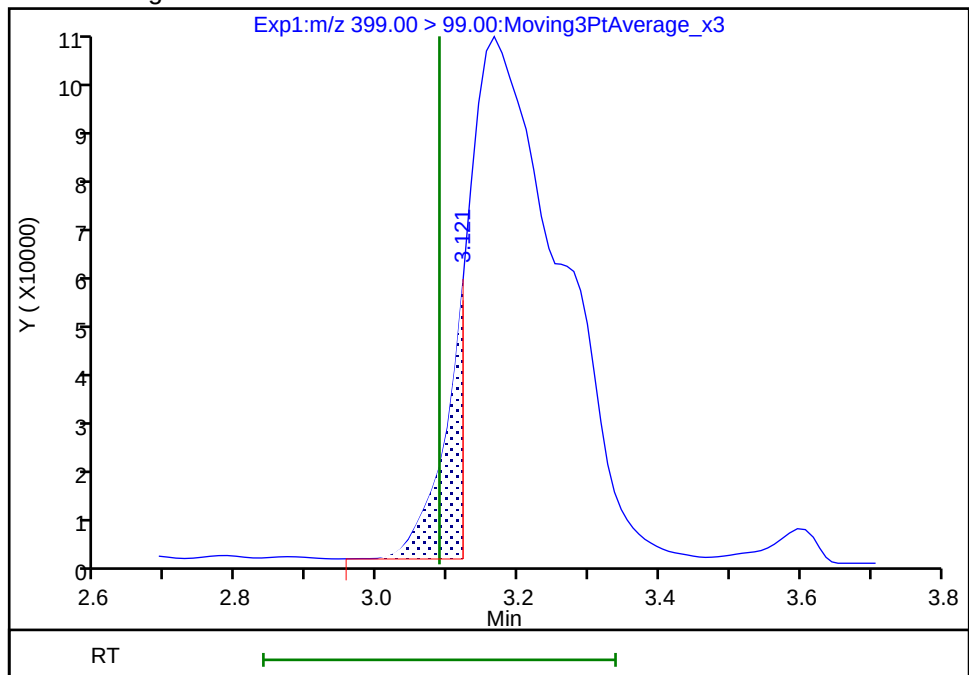
RT: 3.17
Area: 1032354
Amount: 0.004465
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 97798
Amount: 0.004465
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:53:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

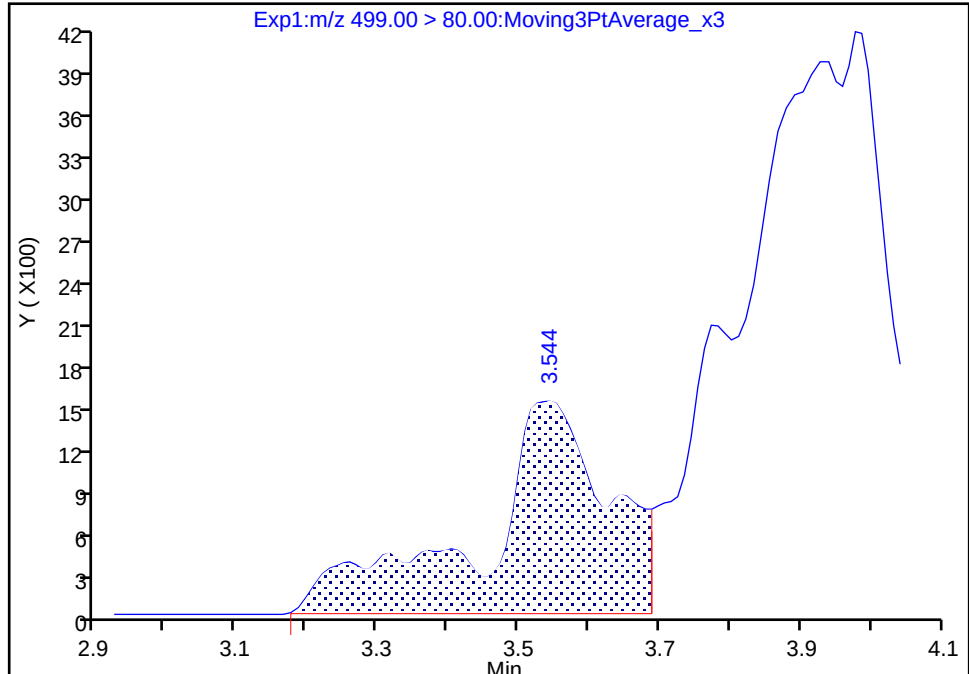
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

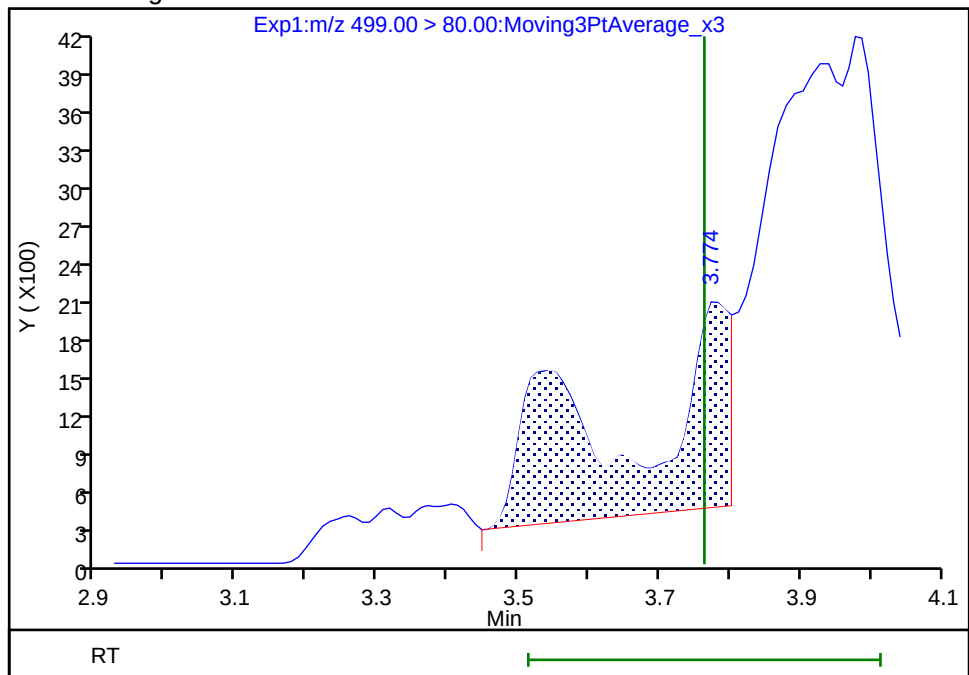
RT: 3.54
Area: 19027
Amount: 0.024339
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 15367
Amount: 0.019657
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:54:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

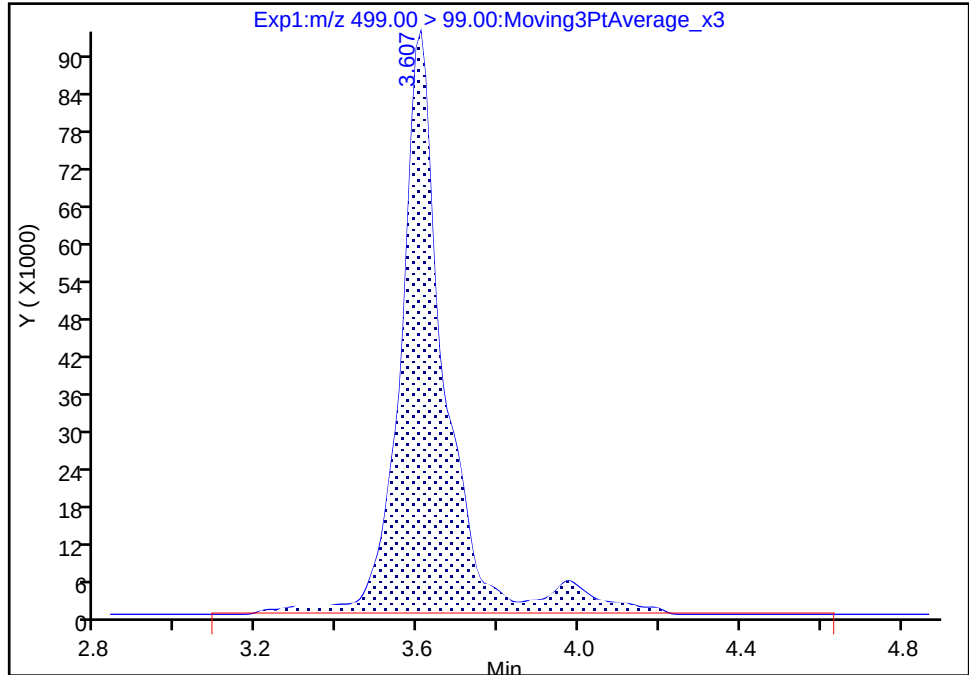
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d
Injection Date: 16-Nov-2022 22:23:47 Instrument ID: LC812
Lims ID: 460-269226-A-4-A Lab Sample ID: 200-269226-4
Client ID: BCS-09-23_(10-10.5)P
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 20.0 ul 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

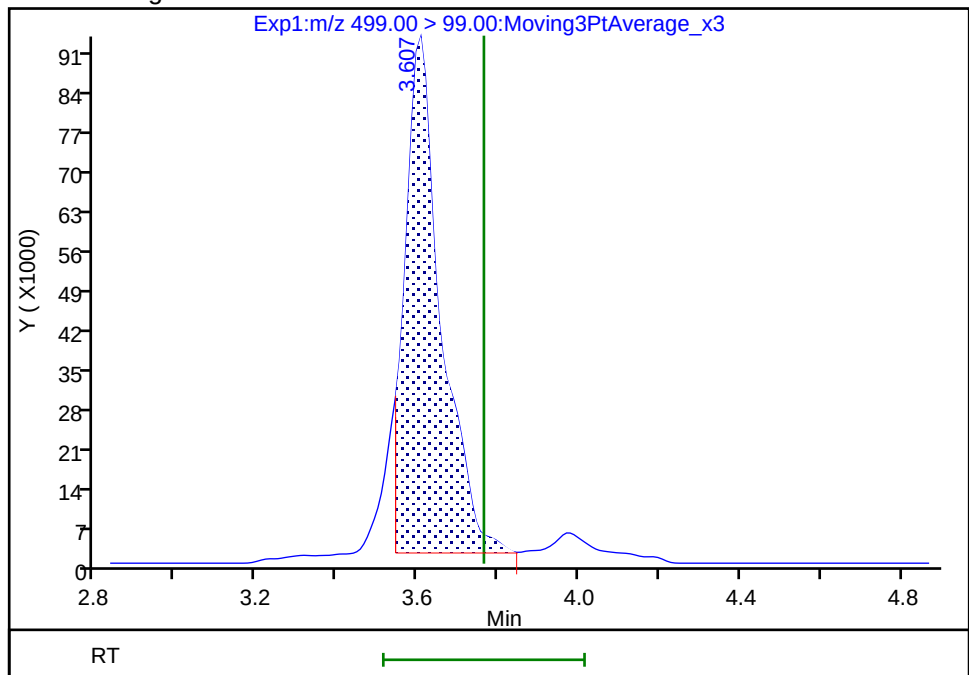
RT: 3.61
Area: 734672
Amount: 0.024339
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 560710
Amount: 0.019657
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:54:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d

Injection Date: 16-Nov-2022 22:23:47

Instrument ID: LC812

Lims ID: 460-269226-A-4-A

Lab Sample ID: 200-269226-4

Client ID: BCS-09-23_(10-10.5)P

Operator ID: lc812tech

ALS Bottle#: 18 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

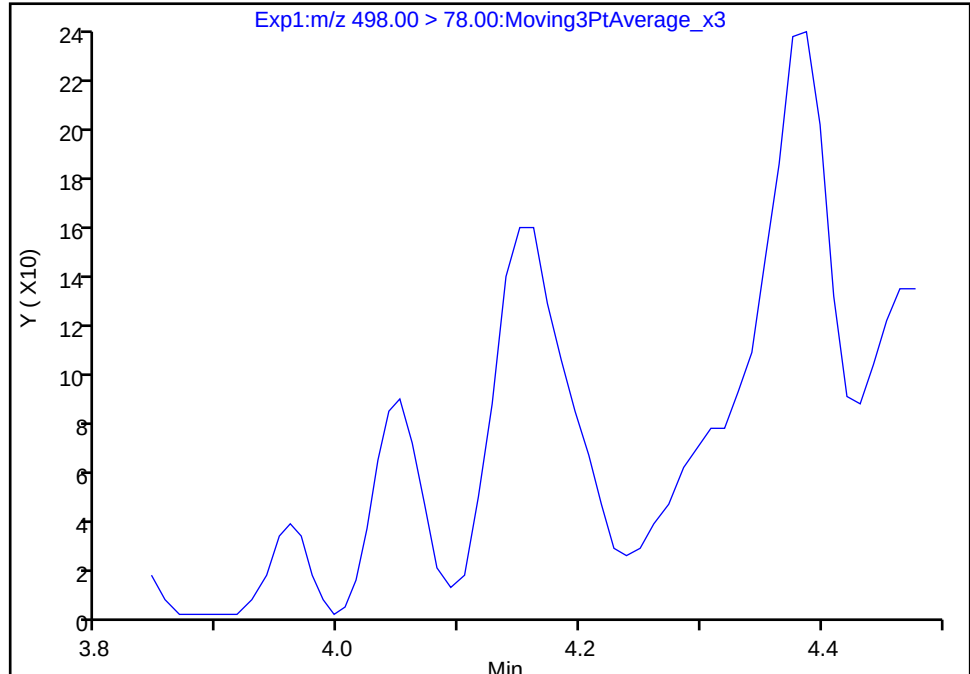
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

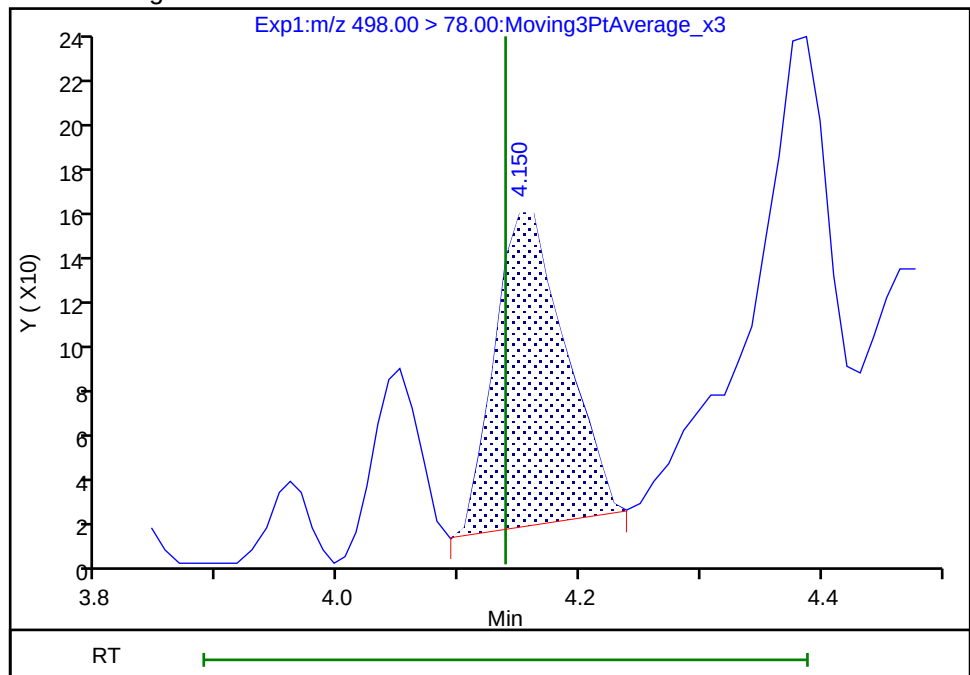
Not Detected

Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.15

Area: 575

Amount: 0.000536

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 15:55:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

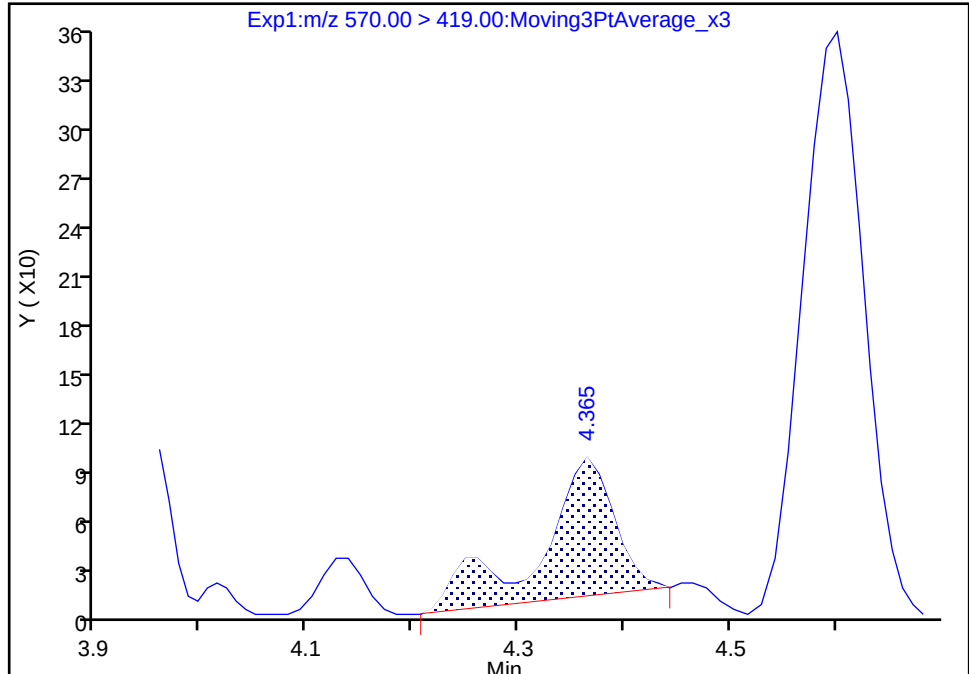
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection 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

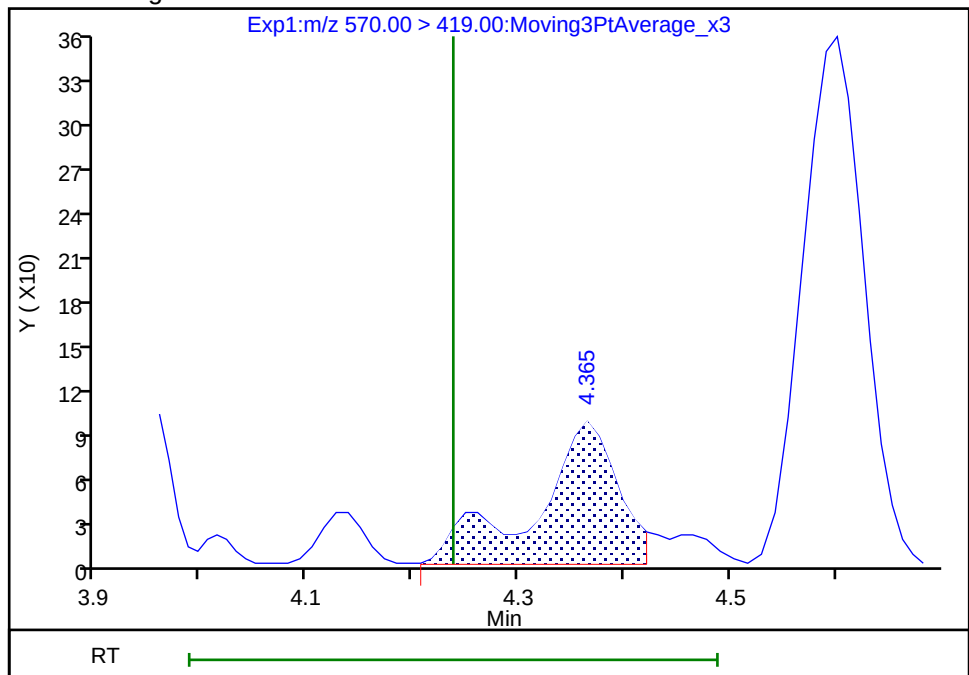
RT: 4.36
Area: 413
Amount: 0.001409
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 502
Amount: 0.001713
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:55:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

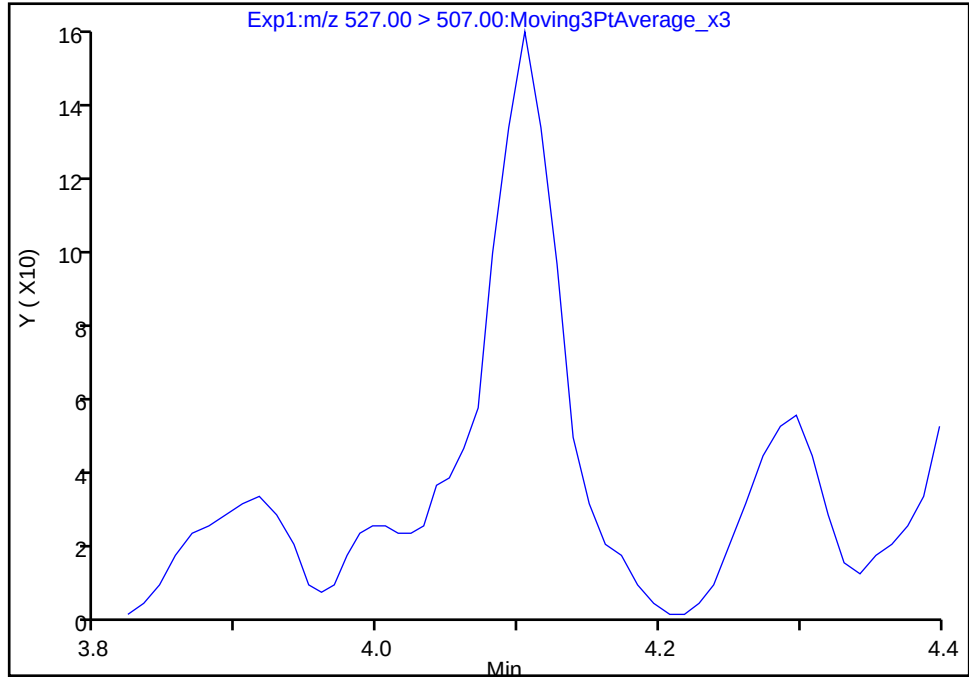
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d				
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812		
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4		
Client ID:	BCS-09-23_(10-10.5)P				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

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

Signal: 1

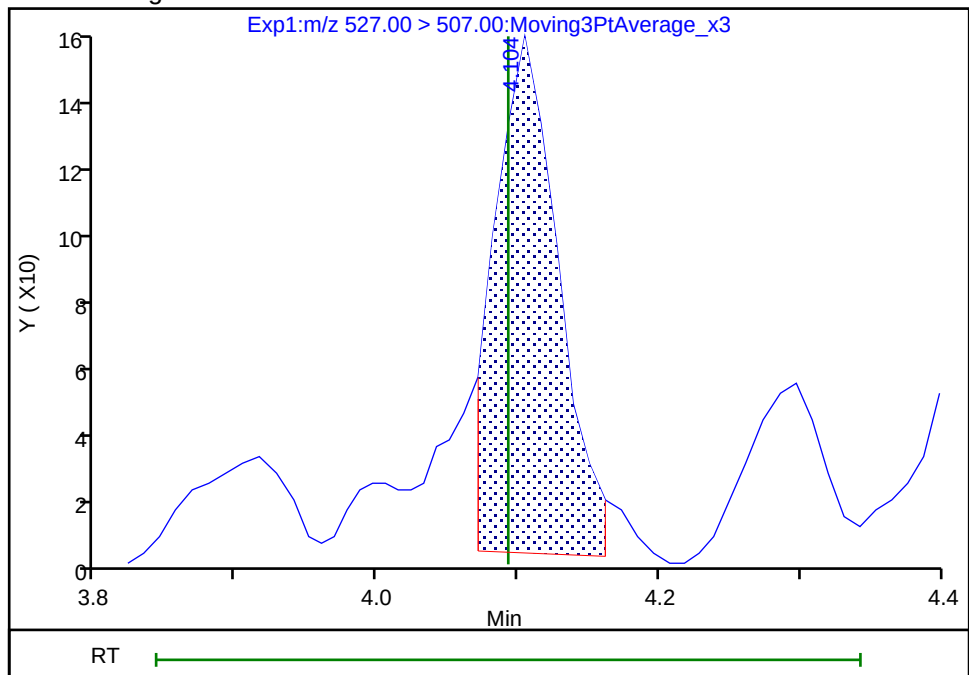
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 479
Amount: 0.001305
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 15:55:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

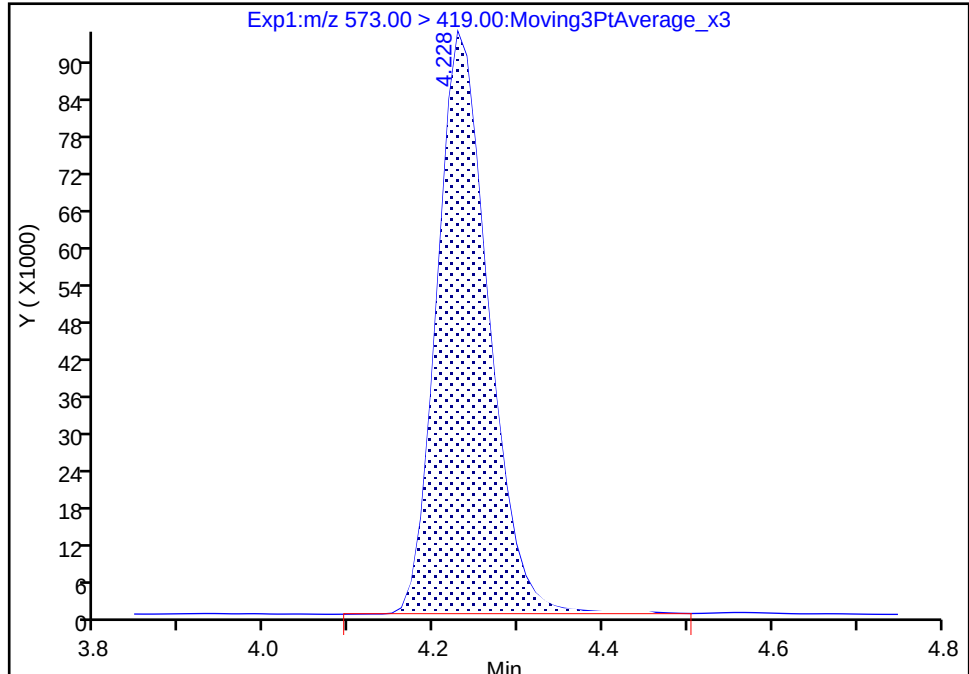
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d		
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4
Client ID:	BCS-09-23_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	18

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

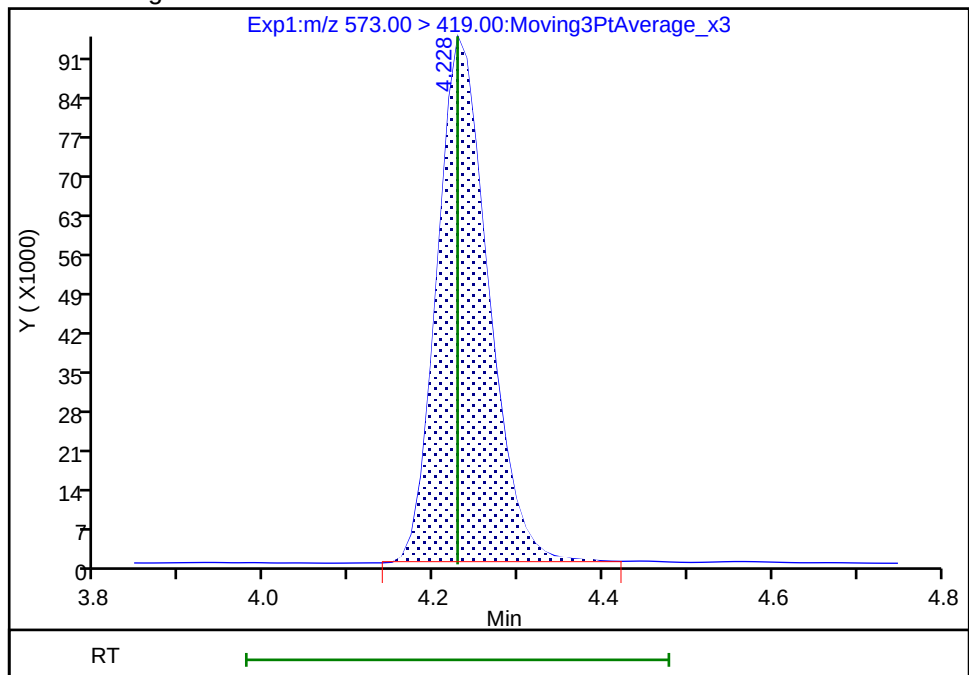
RT: 4.23
Area: 399177
Amount: 1.544688
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 396142
Amount: 1.532944
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:52:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

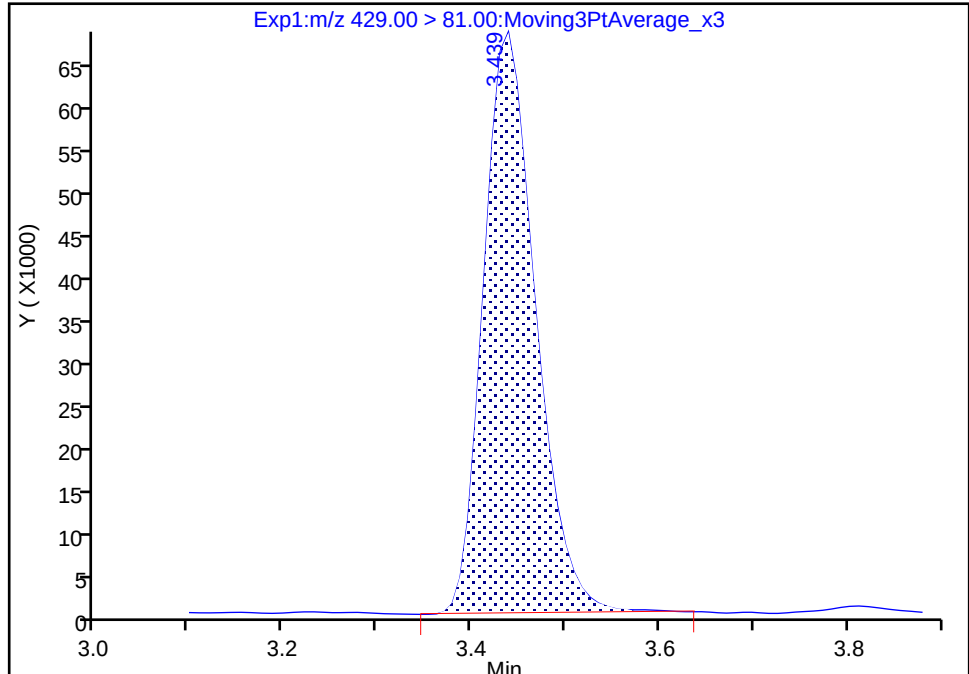
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D18.d		
Injection Date:	16-Nov-2022 22:23:47	Instrument ID:	LC812
Lims ID:	460-269226-A-4-A	Lab Sample ID:	200-269226-4
Client ID:	BCS-09-23_(10-10.5)P		
Operator ID:	lc812tech	ALS Bottle#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	18

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

Signal: 1

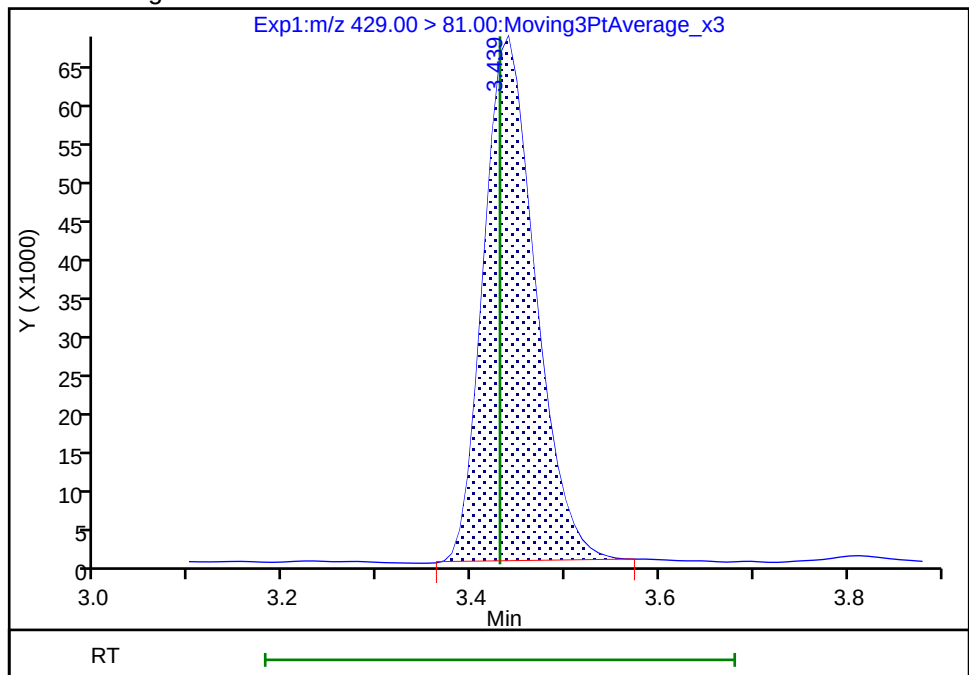
RT: 3.44
Area: 261448
Amount: 1.177745
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 258799
Amount: 1.165812
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:52:39

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.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-183540/5	PA220914ICAL05.d
Level 2	IC 200-183540/6	PA220914ICAL06.d
Level 3	IC 200-183540/7	PA220914ICAL07.d
Level 4	ICIS 200-183540/8	PA220914ICAL08.d
Level 5	IC 200-183540/9	PA220914ICAL09.d
Level 6	IC 200-183540/10	PA220914ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.0954 0.9241	1.0946	1.0346	0.9737	0.9523	AveI D		1.012 4				7.3		20.0			
Perfluoropentanoic acid (PFPeA)	1.0640 0.9685	1.1235	1.1437	1.0904	1.0290	AveI D		1.069 9				6.0		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.1789 1.0158	1.1980	1.2434	1.1136	1.1672	AveI D		1.152 8				6.9		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.6744 2.5760	2.9203	2.9106	2.6254	2.5710	AveI D		2.712 9				5.9		20.0			
Perfluorohexanoic acid (PFHxA)	1.1372 1.0207	1.1681	1.1292	0.9918	1.0670	AveI D		1.085 7				6.5		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.5251 1.2550	1.3979	1.4278	1.3025	1.3263	AveI D		1.372 4				7.1		20.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.2226 1.0168	1.1631	1.1281	1.0575	0.9659	AveI D		1.092 3				8.8		20.0			
Perfluoroheptanoic acid (PFHpA)	1.2454 1.0288	1.2169	1.1113	1.0095	1.0751	AveI D		1.114 5				8.7		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3402 1.1008	1.2073	1.2009	1.0714	1.0589	AveI D		1.163 3				9.2		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.8004 5.1339	5.8109	5.7254	5.5249	5.3548	AveI D		5.558 4				4.9		20.0			
Perfluoroheptanesulfonic acid (PFHpS)	1.4667 1.3009	1.4931	1.4730	1.4287	1.2913	AveI D		1.408 9				6.4		20.0			
6:2 FTS	1.8704 1.7116	1.8759	1.9001	1.7682	1.8045	AveI D		1.821 8				4.0		20.0			
Perfluorooctanoic acid (PFOA)	1.2446 1.1129	1.0967	1.1877	1.0694	1.0801	AveI D		1.131 9				6.1		20.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorooctanesulfonic acid (PFOS)	1.3878 1.1151	1.2785	1.2543	1.1351	1.1187	AveI D		1.214 9				9.1		20.0			
Perfluorononanoic acid (PFNA)	1.1505 0.9489	1.1871	1.0728	1.0016	0.9369	AveI D		1.049 6				10.0		20.0			
9-Chlorohexadecafluoro-3-oxanonane -1-sulfonic acid (9Cl-PF3O)	2.6358 2.3061	2.5182	2.3832	2.4319	2.3508	AveI D		2.437 7				5.0		20.0			
Perfluorononanesulfonic acid (PFNS)	0.8556 0.8250	0.9306	0.9214	0.9030	0.8760	AveI D		0.885 3				4.6		20.0			
Perfluorodecanoic acid (PFDA)	1.1568 1.0181	1.1443	1.1226	1.0074	1.0031	AveI D		1.075 4				6.8		20.0			
8:2 FTS	1.3510 1.1383	1.2207	1.3260	1.2121	1.1884	AveI D		1.239 4				6.6		20.0			
Perfluorooctanesulfonamide (FOSA)	1.0240 0.9675	1.0035	1.0946	0.9695	1.0003	AveI D		1.009 9				4.6		20.0			
N-methylperfluorooctanesulfonamido acetic acid (NMeFOSAA)	0.9169 0.9133	1.0060	0.8885	0.9438	0.8803	AveI D		0.924 8				4.9		20.0			
Perfluorodecanesulfonic acid (PFDS)	0.8119 0.6361	0.6874	0.6981	0.6490	0.6572	AveI D		0.690 0				9.3		20.0			
Perfluoroundecanoic acid (PFUnA)	1.1155 0.9264	1.0812	1.0833	1.0106	1.0418	AveI D		1.043 1				6.5		20.0			
N-ethylperfluorooctanesulfonamidoa cetic acid (NEtFOSAA)	1.0223 0.8873	0.9079	0.8745	0.8907	0.8993	AveI D		0.913 7				6.0		20.0			
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF	3.3039 2.9318	3.3486	3.2709	3.0998	3.0741	AveI D		3.171 5				5.1		20.0			
Perfluorododecanoic acid (PFDoA)	1.1392 0.9784	1.1394	1.1357	0.9985	1.0203	AveI D		1.068 6				7.2		20.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	0.7049 0.6310	0.7031	0.6835	0.6708	0.6438	AveI D		0.672 9				4.5		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3098 0.2582	0.2879	0.2856	0.2825	0.2589	AveI D		0.280 5				7.0		20.0			
Perfluorotridecanoic acid (PFTriA)	1.0408 0.9264	1.0202	1.0195	0.9054	0.9639	AveI D		0.979 3				5.7		20.0			
Perfluorotetradecanoic acid (PFTeA)	0.1601 0.1422	0.1585	0.1618	0.1597	0.1510	AveI D		0.155 5				4.9		20.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.2295 0.8688	1.1287	1.0135	0.9340	0.9522	LlID	0.024 2	0.886 1							0.9980		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.7377 0.6536	0.7608	0.7609	0.6887	0.7348	AveI D		0.722 8				5.9		20.0			
13C4 PFBA	1.2069 1.2484	1.2389	1.1914	1.2152	1.2178	Ave		1.219 7				1.7		50.0			
13C5 PFPeA	0.9376 1.0058	1.0027	0.9338	0.9515	0.9267	Ave		0.959 7				3.7		50.0			
13C3 PFBS	0.9700 1.0053	0.9986	0.9474	0.9725	0.9397	Ave		0.972 2				2.7		50.0			
M2-4:2 FTS	0.0865 0.0876	0.0864	0.0866	0.0946	0.0870	Ave		0.088 1				3.6		50.0			
13C2 PFHxA	0.9541 0.9793	0.9742	0.9565	1.0016	0.9893	Ave		0.975 8				1.9		50.0			
13C3 HFPO-DA	0.1815 0.1885	0.1808	0.1769	0.1866	0.1846	Ave		0.183 2				2.3		50.0			
18O2 PFHxS	0.6617 0.7039	0.7218	0.6904	0.7080	0.6791	Ave		0.694 2				3.1		50.0			
13C4 PFHpA	0.9178 0.9835	0.9573	0.9861	0.9744	0.9337	Ave		0.958 8				2.9		50.0			
M2-6:2 FTS	0.1192 0.1156	0.1279	0.1169	0.1196	0.1121	Ave		0.118 6				4.5		50.0			
13C4 PFOA	1.0314 0.9874	1.0926	1.0072	1.0296	1.0041	Ave		1.025 4				3.6		50.0			
13C4 PFOS	0.4582 0.4591	0.4735	0.4614	0.4501	0.4423	Ave		0.457 4				2.3		50.0			
13C5 PFNA	1.0231 1.0261	1.0073	0.9699	0.9857	1.0394	Ave		1.008 6				2.6		50.0			
13C2 PFDA	0.9783 0.9400	1.0043	0.9483	0.9944	1.0151	Ave		0.980 1				3.1		50.0			
M2-8:2 FTS	0.1372 0.1424	0.1489	0.1329	0.1412	0.1384	Ave		0.140 2				3.9		50.0			
13C8 FOSA	0.8023 0.8087	0.8137	0.7647	0.8173	0.7833	Ave		0.798 3				2.6		50.0			
d3-NMeFOSAA	0.1334 0.1386	0.1404	0.1425	0.1367	0.1365	Ave		0.138 0				2.3		50.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFUnA	0.8051 0.8026	0.8290	0.7915	0.8262	0.7609	Ave		0.802 5				3.1		50.0			
d5-NEtFOSAA	0.1385 0.1341	0.1415	0.1404	0.1365	0.1309	Ave		0.137 0				2.9		50.0			
13C2 PFDoA	0.7698 0.7977	0.8231	0.7354	0.8100	0.7605	Ave		0.782 7				4.2		50.0			
13C2 PFTeDA	0.6885 0.6918	0.6800	0.6511	0.6557	0.6454	Ave		0.668 7				3.0		50.0			
13C2 PFHxDA	0.7337 0.7866	0.7594	0.7029	0.7403	0.7068	Ave		0.738 3				4.3		50.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-183540/5	PA220914ICAL05.d
Level 2	IC 200-183540/6	PA220914ICAL06.d
Level 3	IC 200-183540/7	PA220914ICAL07.d
Level 4	ICIS 200-183540/8	PA220914ICAL08.d
Level 5	IC 200-183540/9	PA220914ICAL09.d
Level 6	IC 200-183540/10	PA220914ICAL10.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	76561 12558248	186860	727727	1350105	3342049	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveI D	57777 10604495	155221	630510	1183868	2748256	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveI D	58540 9826830	145722	614798	1092451	2794132	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveI D	12514 2294421	32490	138979	264747	601981	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveI D	62839 10881505	156797	637664	1133473	3042002	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveI D	54819 9021346	130412	545918	987093	2434557	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveI D	12850 2086385	28980	117835	225202	513988	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveI D	66193 11014840	160516	646972	1122360	2892996	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveI D	46735 7676456	109266	445435	787731	1885812	0.0455 9.10	0.0910	0.455	0.910	2.28

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

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	144985 24171345	357109	1469288	2672768	6429389	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	37050 6189936	92730	382025	698486	1566895	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		AveI D	12242 2041604	31350	124338	228690	552719	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	74342 11962019	165097	706257	1256379	3125560	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	34174 5172308	77401	317113	540986	1323207	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	68169 10598556	164777	614338	1126510	2806508	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanona ne-1-sulfonic acid (9Cl-PF3O		AveI D	65185 10742319	153115	605095	1163965	2792593	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	21796 3958487	58280	240964	445191	1071939	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	65541 10417771	158346	628508	1143089	2934763	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	10286 1690279	23997	99639	187131	454235	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	47577 8517155	112506	494180	904121	2258072	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonami doacetic acid (NMeFOSAA)		AveI D	7084 1377949	19467	74732	147179	346259	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.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

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	20769 3064695	43231	183340	321319	807468	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveI D	52013 8093562	123513	506209	952713	2284435	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamid oacetic acid (NEtFOSAA)		AveI D	8198 1295033	17699	72481	138699	339355	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafuoro-3-oxaundec ane-1-sulfonic acid (11Cl-PF		AveI D	82583 13803551	205787	839392	1499574	3691001	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveI D	50784 8496451	129219	493092	922842	2236229	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	5400 942864	13909	51685	104211	247638	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveI D	7958 1249382	18179	75318	140459	319396	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveI D	46398 8044205	115701	442633	836789	2112532	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveI D	6383 1070761	14854	62194	119469	280815	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	52239 7438664	118100	420545	788999	1939602	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	31346 5596168	79605	315761	581778	1496697	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PF OA	Ave	1747296 1698736	2133884	1758456	1733241	1754738	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.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

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	1357522 1368680	1726959	1378228	1357133	1335376	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1306004 1272162	1599636	1300458	1290024	1259228	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	116980 111337	139070	119373	126053	117073	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1381388 1332557	1677977	1411774	1428554	1425483	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	262754 256501	311450	261143	266188	266054	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	906294 906172	1176053	964013	955365	925652	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	1328796 1338339	1648873	1455434	1389781	1345401	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	163969 149414	209346	163935	162008	153476	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	1493236 1343616	1881802	1486584	1468592	1446878	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	634179 597271	779606	651103	613698	609259	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	1481275 1396216	1735041	1431589	1405937	1497719	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	1416448 1279123	1729780	1399706	1418378	1462783	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.: 460-269226-1 Analy Batch No.: 183540

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/14/2022 10:33 Calibration End Date: 09/14/2022 11:14 Calibration ID: 48957

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	190335 185620	245730	187861	192985	191116	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1161565 1100399	1401468	1128680	1165740	1128734	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	193156 188601	241895	210264	194922	196670	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	1165669 1092116	1427912	1168198	1178414	1096415	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	200486 182431	243668	207198	194646	188668	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	1114491 1085469	1417662	1085440	1155321	1095823	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	996873 941347	1171213	961015	935229	929944	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	1062238 1070310	1307906	1037396	1055967	1018455	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\20220914-52438.b\PA220914ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Sep-2022 10:33:39 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0052438-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:19 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 10:49:07

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 2.093 2.093 0.0 0.603 1747296 1.24 98.9 9924

2 Perfluorobutanoic acid

212.90 > 169.00 2.093 2.102 -0.009 1.000 76561 0.0541 108 9.4 M

D 3 13C5 PFPeA

267.90 > 223.00 2.400 2.413 -0.013 0.691 1357522 1.22 97.7 3148

4 Perfluoropentanoic acid

262.90 > 219.00 2.400 2.413 -0.013 1.000 57777 0.0497 99.5 2.1 M

D 47 13C3 PFBS

301.90 > 80.00 2.413 2.426 -0.013 0.695 1306004 1.16 99.8 393674

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.426 2.426 0.0 1.006 58540 0.0452 Target=2.15 102 78.2

298.90 > 99.00 2.426 2.426 0.0 1.006 27881 2.10(1.07-3.22) 102 27.2

D 60 M2-4:2 FTS

329.00 > 81.00 2.713 2.725 -0.012 0.781 116980 1.15 98.2 118

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.713 2.725 -0.012 1.000 12514 0.0460 98.6 201

D 7 13C2 PFHxA

315.00 > 270.00 2.749 2.762 -0.013 0.792 1381388 1.22 97.8 2771

6 Perfluorohexanoic acid

313.00 > 269.00 2.749 2.762 -0.013 1.000 62839 0.0524 Target=13.89 105 15.4 M

313.00 > 119.00 2.762 2.762 0.0 1.004 4274 14.70(6.95-20.84) 105 7.7

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.762 2.774 -0.012 0.885 54819 0.0521 Target=3.05 111 109 M

349.00 > 99.00 2.762 2.774 -0.012 0.885 17491 3.13(1.53-4.58) 111 54.3

67 Perfluoro(2-propoxypropanoic) ac

285.00 > 169.00 2.859 2.871 -0.012 1.000 12850 0.0560 112 137 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	2.859	2.871	-0.012	0.823	262754	1.24		99.1	677	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.121	3.132	-0.011	1.000	66193	0.0559	Target=4.00	112	21.5	
363.00 > 169.00	3.121	3.132	-0.011	1.000	16052		4.12(2.00-6.00)	112	42.3	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.132	-0.011	0.898	1328796	1.20		95.7	1987	
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.132	-0.011	0.898	906294	1.13		95.3	1538	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.132	-0.011	1.000	46735	0.0524	Target=3.63	115	141	M
399.00 > 99.00	3.121	3.132	-0.011	1.000	13577		3.44(1.82-5.45)	115	20.9	M
77 DONA										
377.00 > 251.00	3.154	3.165	-0.011	0.832	144985	0.0492	Target=3.03	104	282	
377.00 > 85.00	3.154	3.165	-0.011	0.832	46246		3.14(1.52-4.55)	104	78.8	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.465	3.473	-0.008	0.914	37050	0.0496	Target=5.20	104	253	
449.00 > 99.00	3.465	3.473	-0.008	0.914	7942		4.67(2.60-7.80)	104	52.9	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.481	-0.016	1.000	12242	0.0487		103	58.4	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.481	-0.016	0.997	163969	1.19		101	459	
D 14 13C4 PFOA										
417.00 > 372.00	3.474	3.490	-0.016	1.000	1493236	1.26		101	1692	
* 62 13C2 PFOA										
415.00 > 370.00	3.474	3.490	-0.016		1447810	1.25			2997	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.474	3.490	-0.016	1.000	74342	0.0550	Target=2.83	110	6.7	M
413.00 > 169.00	3.482	3.490	-0.008	1.003	23414		3.18(1.41-4.24)	110	58.0	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.792	3.801	-0.009	1.000	34174	0.0530	Target=5.27	114	33.1	M
499.00 > 99.00	3.783	3.801	-0.018	0.997	5152		6.63(2.64-7.91)	114	18.3	M
D 18 13C4 PFOS										
503.00 > 80.00	3.792	3.801	-0.009	1.092	634179	1.20		100	2433	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.812	3.821	-0.009	1.000	68169	0.0548	Target=8.24	110	24.9	
463.00 > 169.00	3.802	3.821	-0.019	0.997	8112		8.40(4.12-12.36)	110	73.2	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.812	3.821	-0.009	1.097	1481275	1.27		101	2134	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.960	3.969	-0.009	1.044	65185	0.0504		108	567	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.104	-0.011	1.079	21796	0.0464	Target=2.56	96.7	259	
549.00 > 99.00	4.093	4.104	-0.011	1.079	8785		2.48(1.28-3.84)	96.7	60.5	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.127	-0.012	1.185	1416448	1.25		99.8	2876	

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	4.115	4.127	-0.012	1.000	65541	0.0538	Target=9.84	108	36.9	
513.00 > 169.00	4.115	4.127	-0.012	1.000	6286		10.43(4.92-14.76)	108	19.4	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.138	-0.023	1.185	190335	1.17		97.9	688	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.138	-0.011	1.003	10286	0.0522		109	202	
D 21 13C8 FOSA										
506.00 > 78.00	4.173	4.184	-0.011	1.201	1161565	1.26		100	2243	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.173	4.196	-0.023	1.000	47577	0.0507		101	225	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.261	4.273	-0.012	1.227	193156	1.21		96.7	1006	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.261	4.273	-0.012	1.000	7084	0.0496		99.1	17.7	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.353	4.365	-0.012	1.148	20769	0.0567	Target=2.77	118	242	
599.00 > 99.00	4.353	4.365	-0.012	1.148	6241		3.33(1.38-4.15)	118	60.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.376	4.399	-0.023	1.260	1165669	1.25		100	2802	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.387	4.399	-0.012	1.263	200486	1.26		101	734	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.387	4.399	-0.012	1.003	52013	0.0535	Target=9.37	107	40.3	
563.00 > 169.00	4.376	4.399	-0.023	1.000	5574		9.33(4.68-14.05)	107	71.0	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.387	4.410	-0.023	1.000	8198	0.0559		112	81.8	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.478	4.491	-0.013	1.181	82583	0.0491		104	505	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.633	-0.011	1.002	50784	0.0533	Target=7.06	107	8.6	M
613.00 > 169.00	4.622	4.633	-0.011	1.002	6730		7.55(3.53-10.59)	107	83.0	
D 36 13C2 PFDaA										
615.00 > 570.00	4.612	4.633	-0.021	1.328	1114491	1.23		98.3	3781	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.633	4.653	-0.020	1.126	5400	0.0505		105	153	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.794	4.803	-0.009	1.264	7958	0.0535	Target=0.51	110	144	
699.00 > 99.00	4.794	4.803	-0.009	1.264	15596		0.51(0.25-0.76)	110	396	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.837	4.848	-0.011	1.049	46398	0.0531	Target=5.01	106	9.2	M
663.00 > 169.00	4.825	4.848	-0.023	1.046	9263		5.01(2.50-7.51)	106	117	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.032	5.041	-0.009	1.002	6383	0.0515	Target=0.95	103	86.8	
713.00 > 219.00	5.022	5.041	-0.019	1.000	6245		1.02(0.47-1.42)	103	92.0	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.022	5.041	-0.019	1.446	996873	1.29		103	4219	

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	5.388	-0.010	1.000	52239	0.0421	Target=4.99	84.2	15.5	M
813.00 > 169.00	5.378	5.388	-0.010	1.000	10691		4.89(2.49-7.48)	84.2	142	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.378	5.388	-0.010	1.548	1062238	1.24		99.4	2881	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.731	-0.009	1.064	31346	0.0510	Target=5.05	102	12.8	M
913.00 > 169.00	5.722	5.731	-0.009	1.064	6121		5.12(2.53-7.58)	102	110	

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\20220914-52438.b\PA220914ICAL05.d

Injection Date: 14-Sep-2022 10:33:39

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

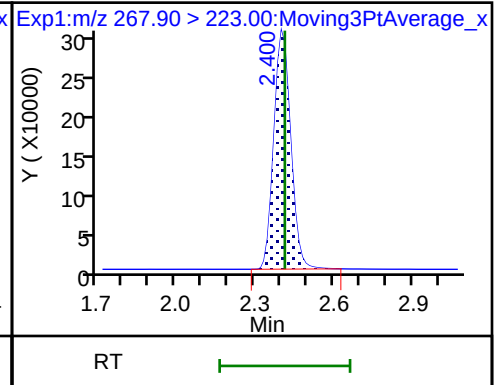
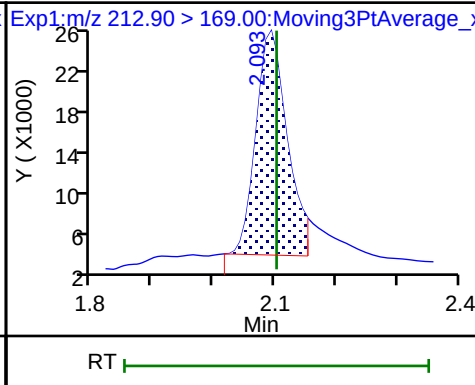
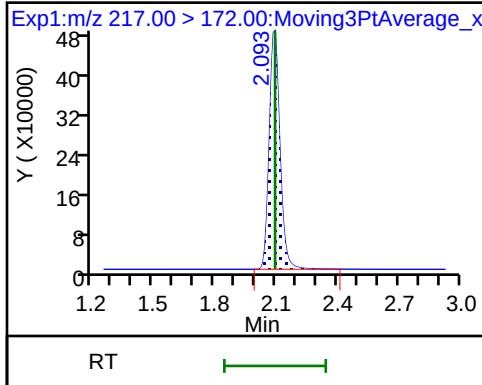
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

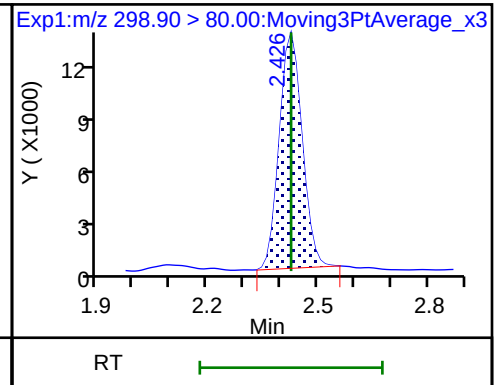
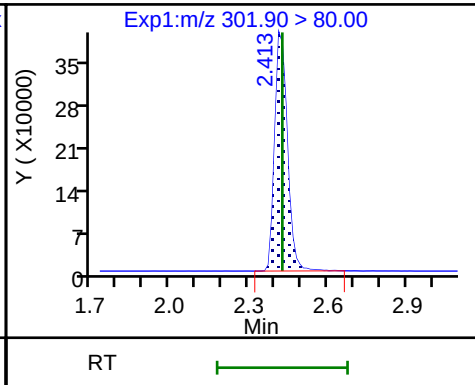
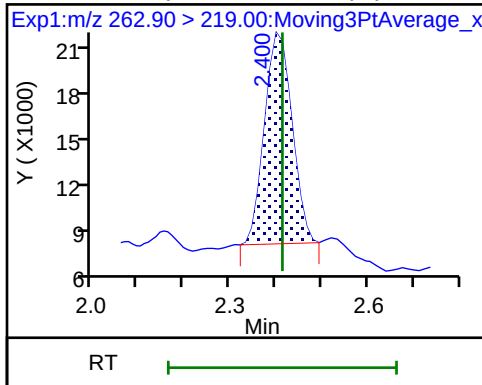
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

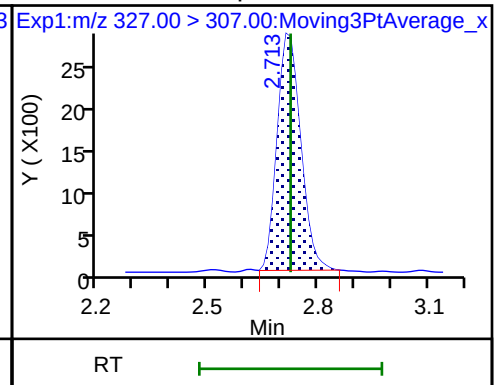
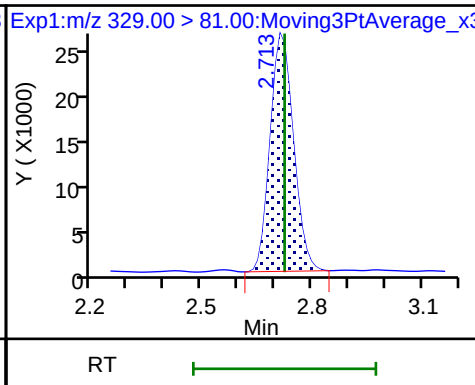
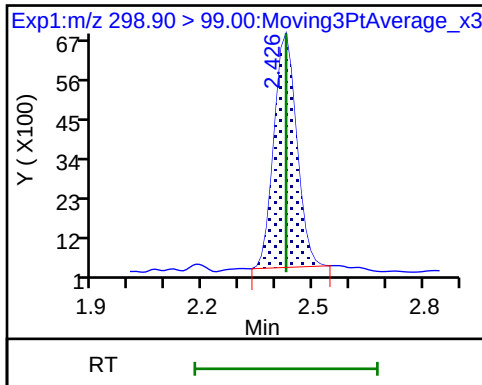
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

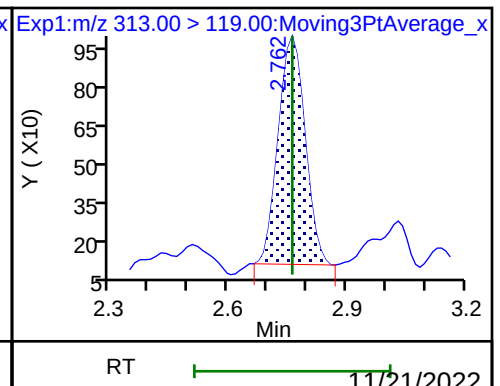
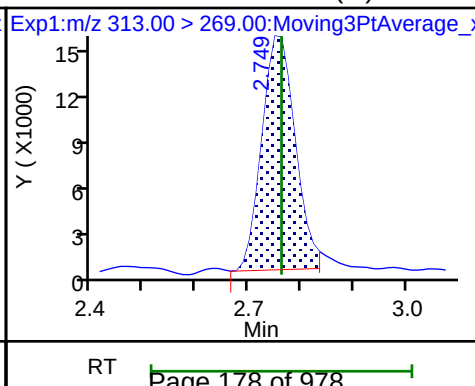
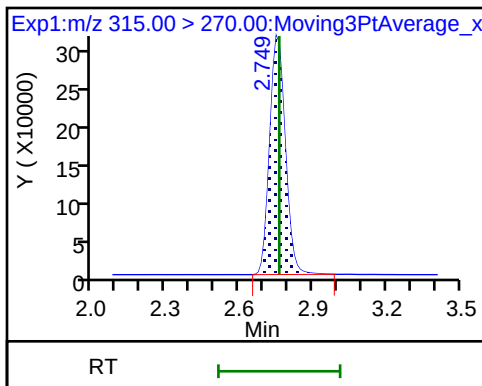
61 1H,1H,2H,2H-perfluorohexanesulfo

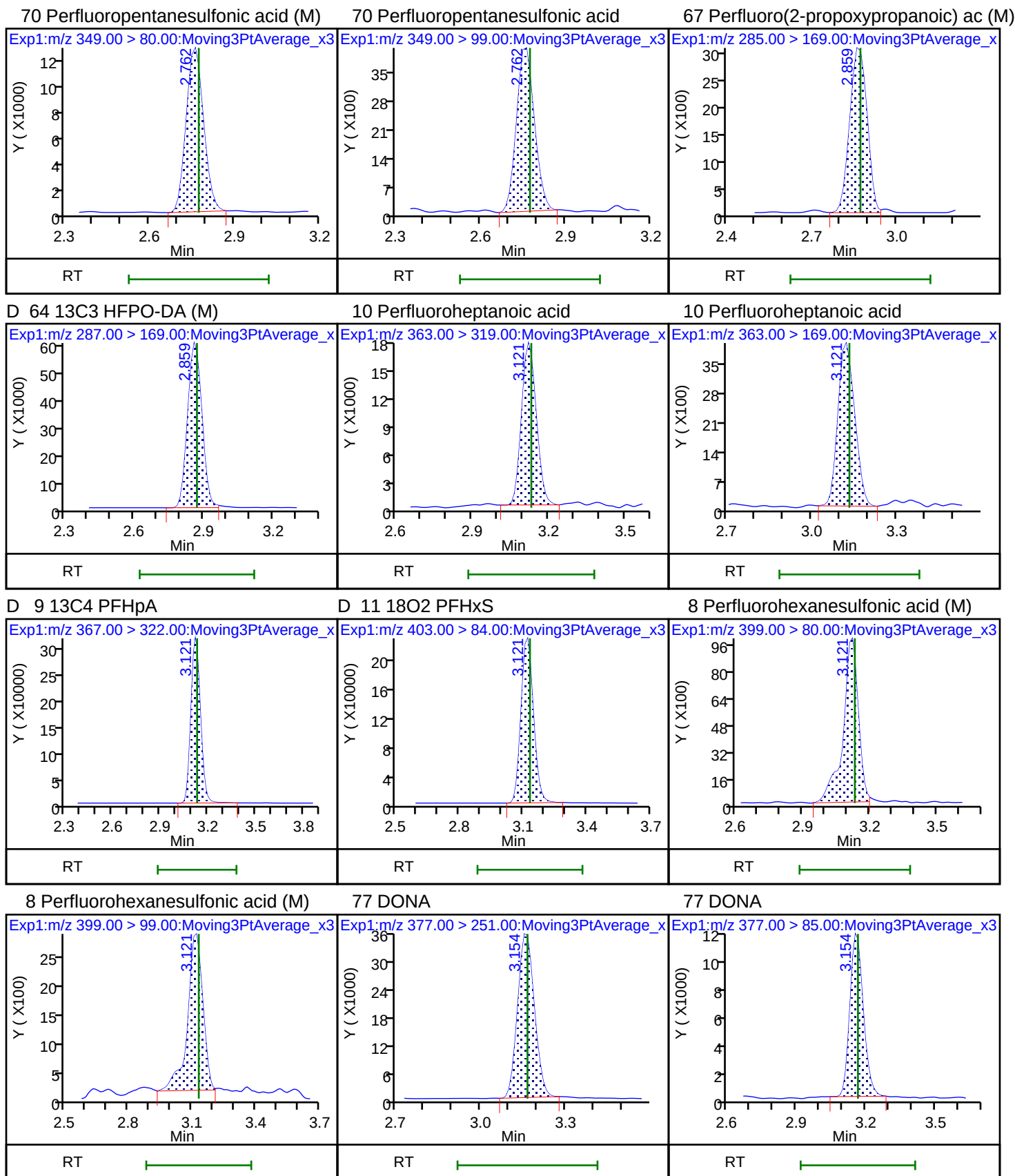


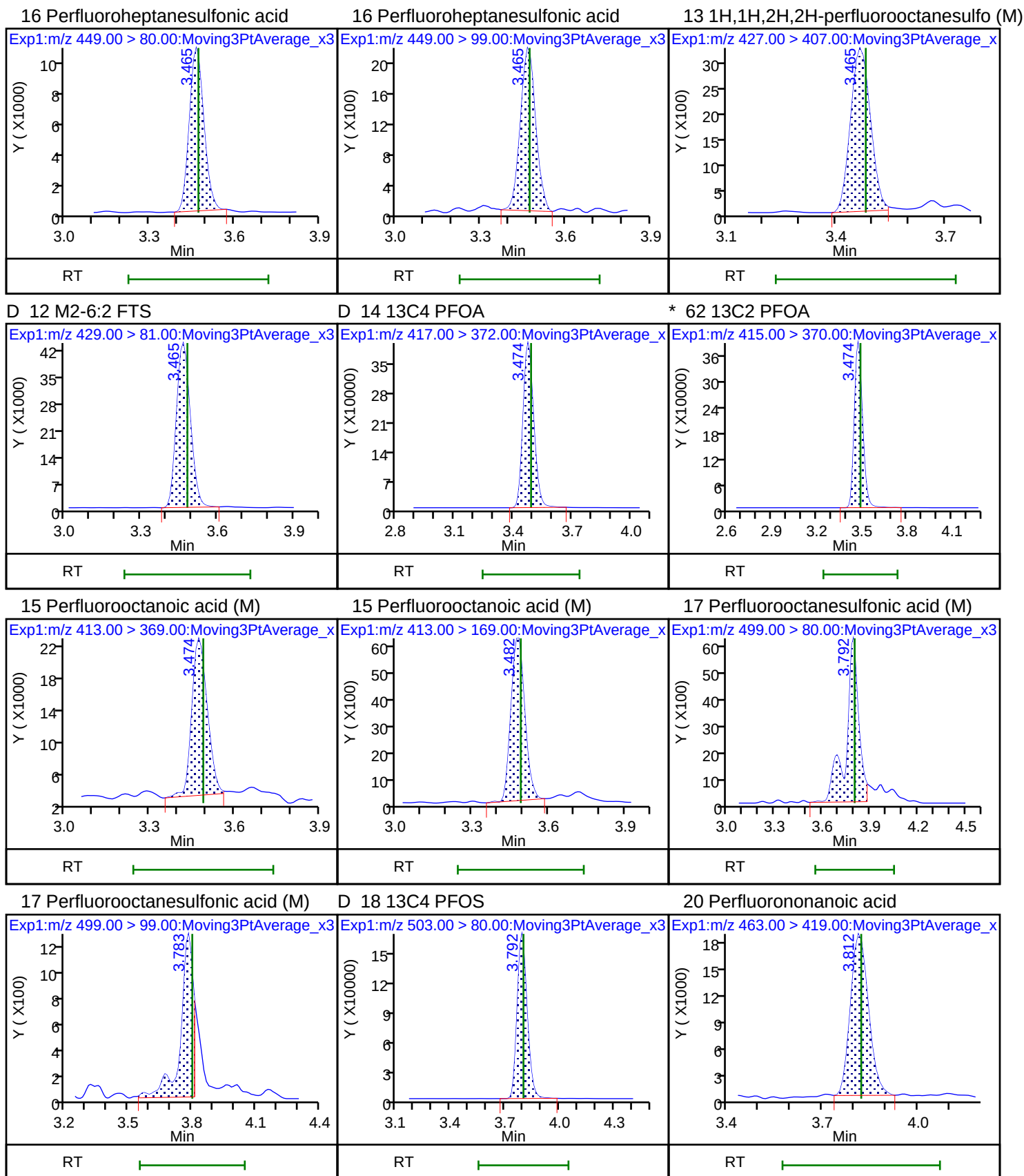
D 7 13C2 PFHxA

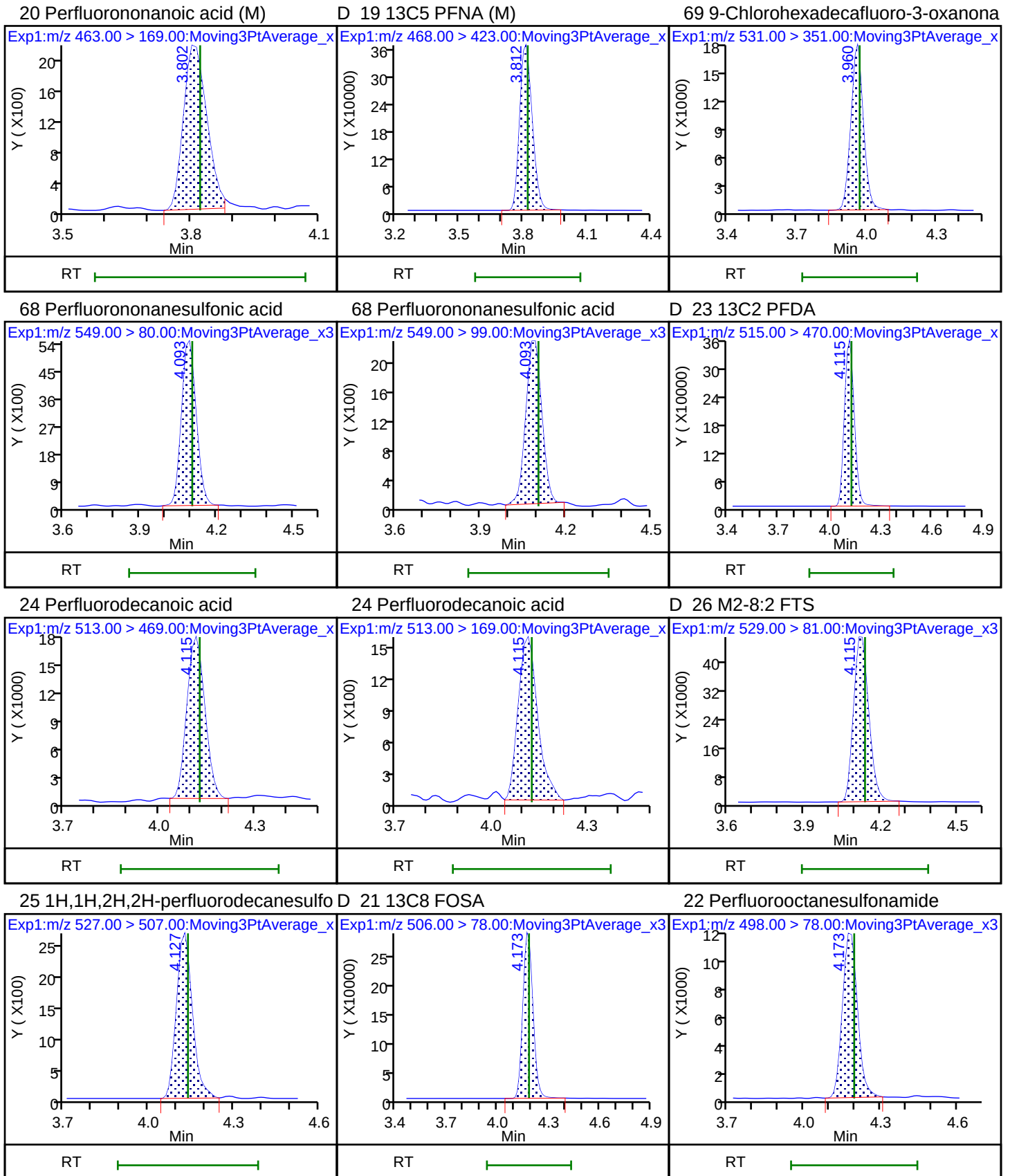
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid





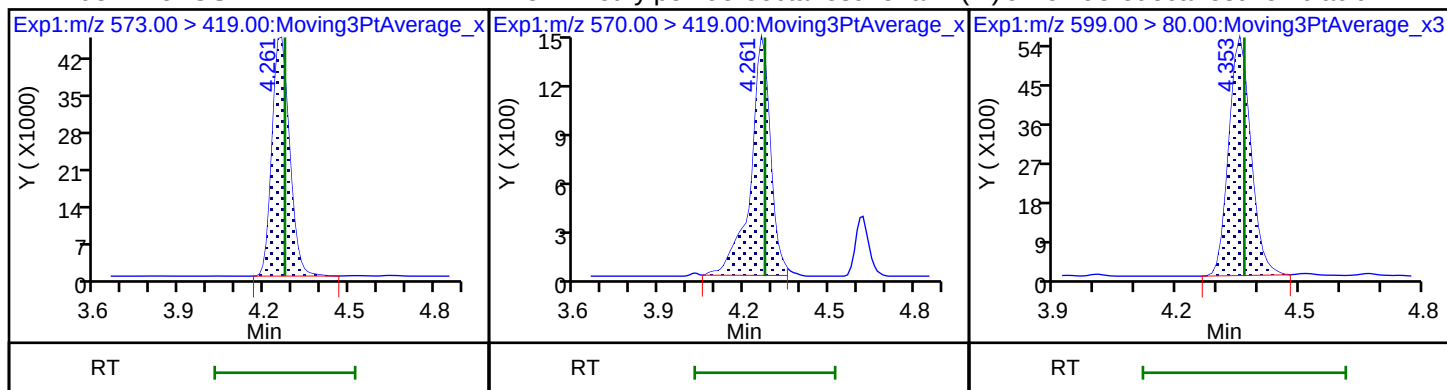




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

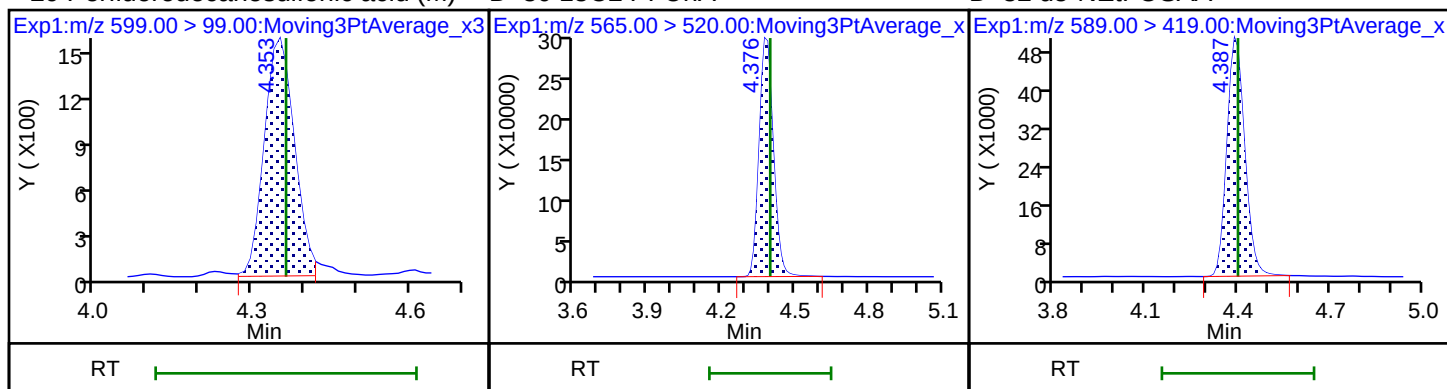
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

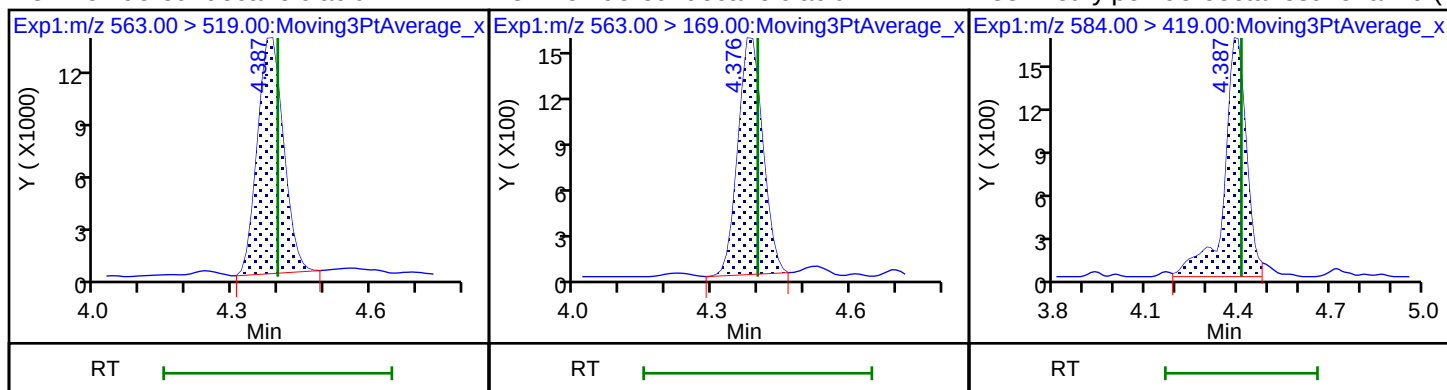
D 32 d5-NEtFOSAA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid

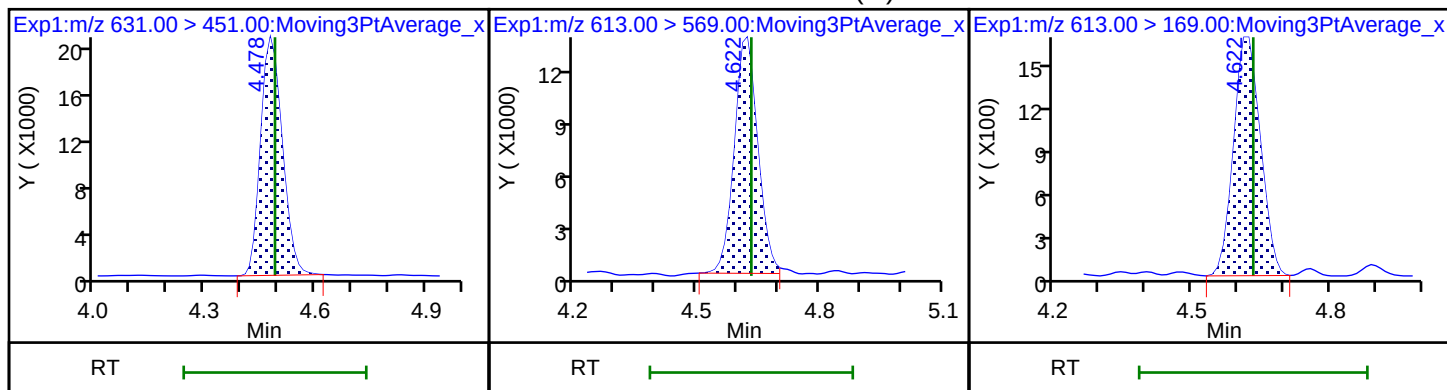
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

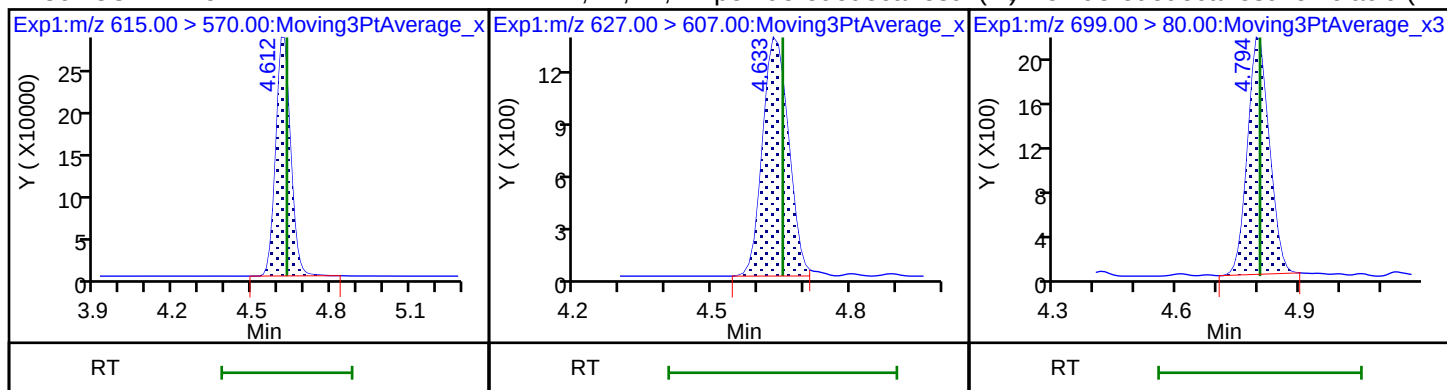
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

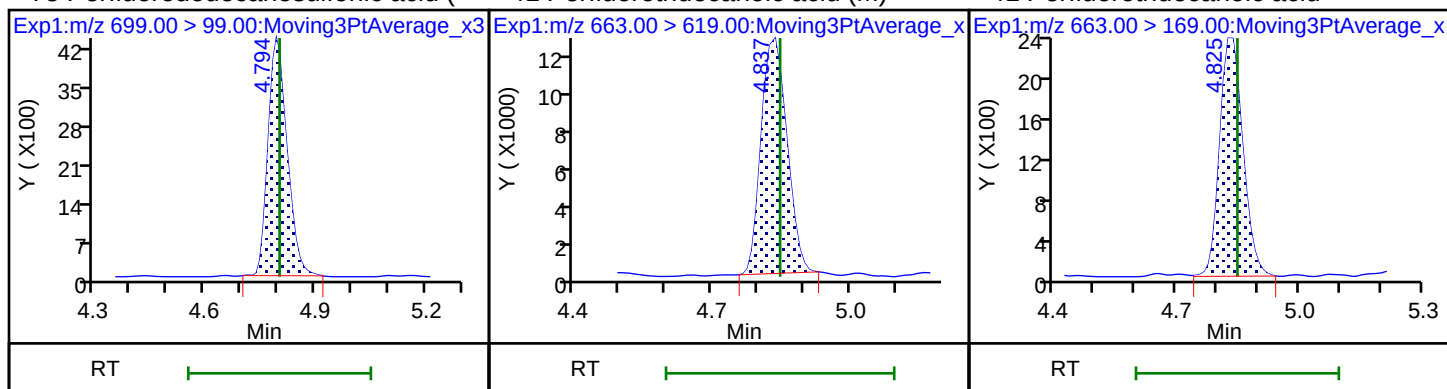
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

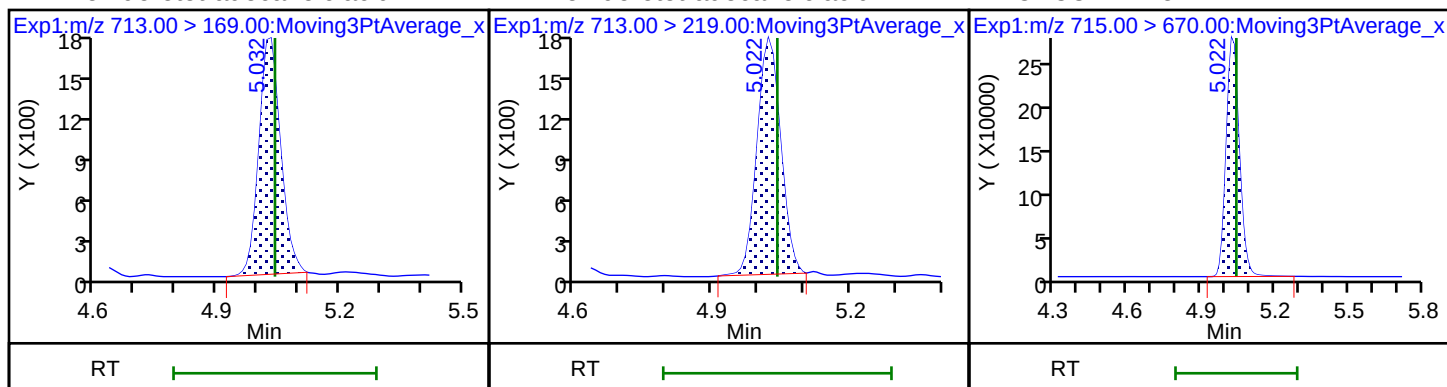
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

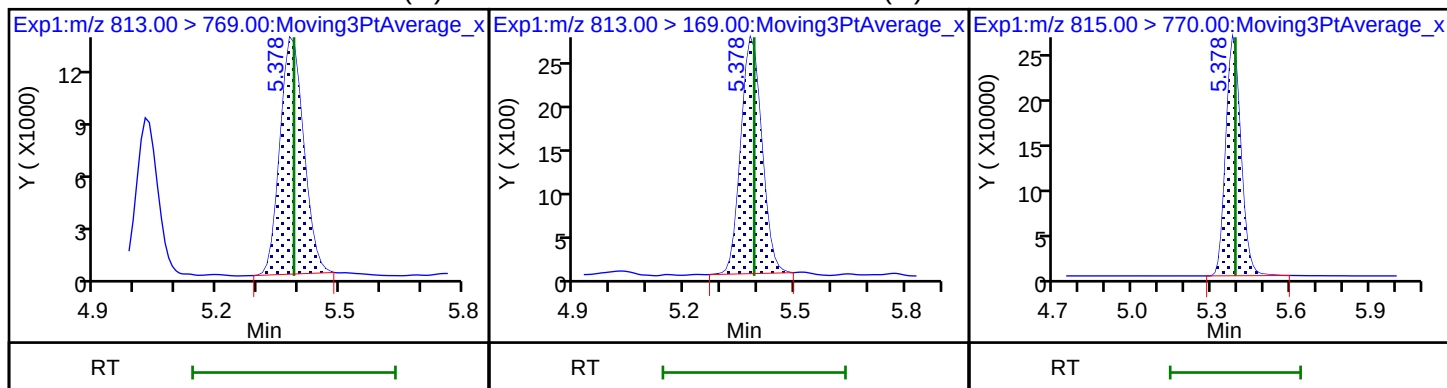
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid (M)

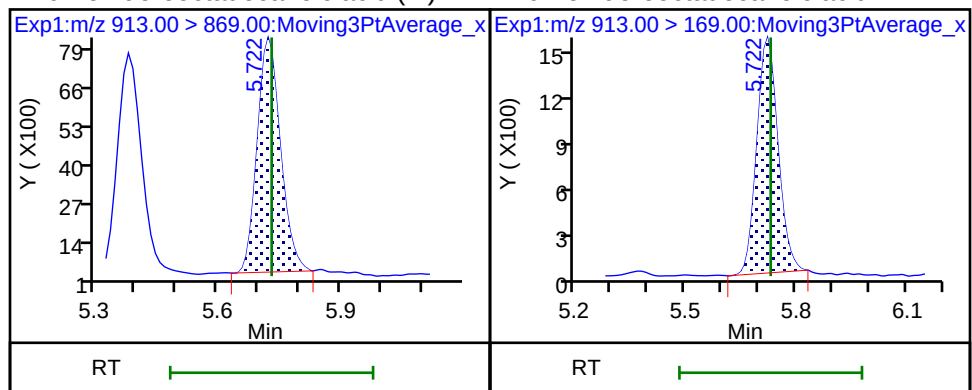
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

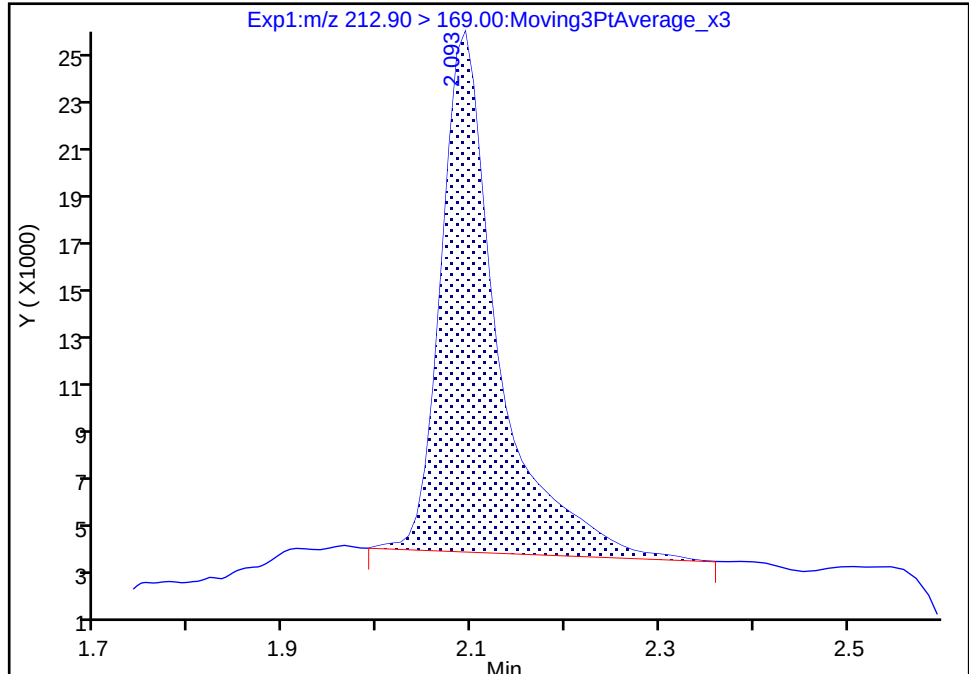
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

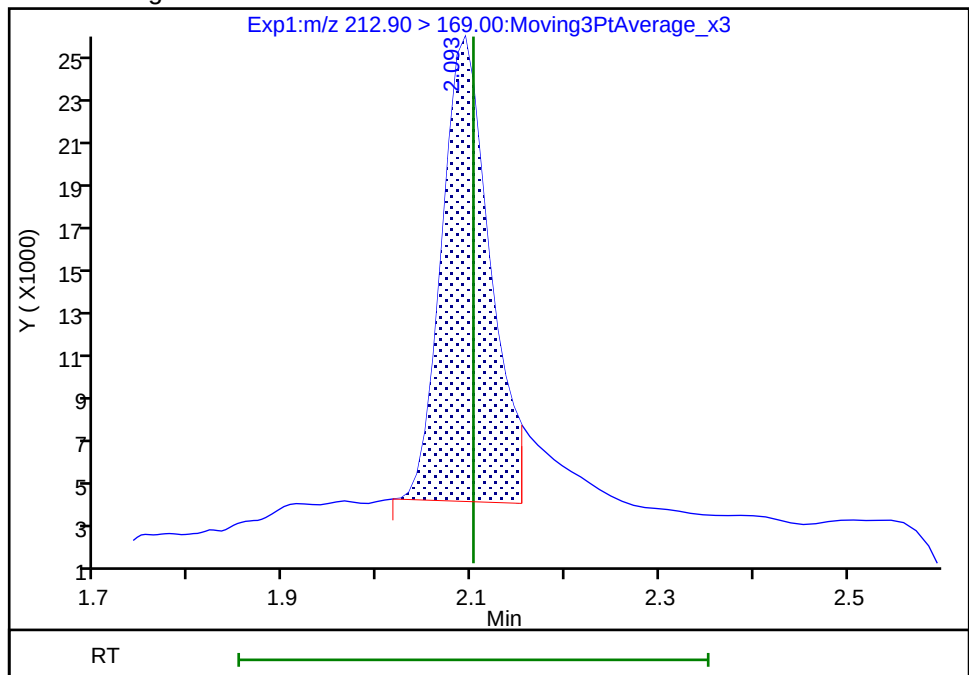
RT: 2.09
Area: 92240
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 76561
Amount: 0.054098
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:43:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 185 of 978

11/21/2022
4:10 PM

Eurofins Burlington

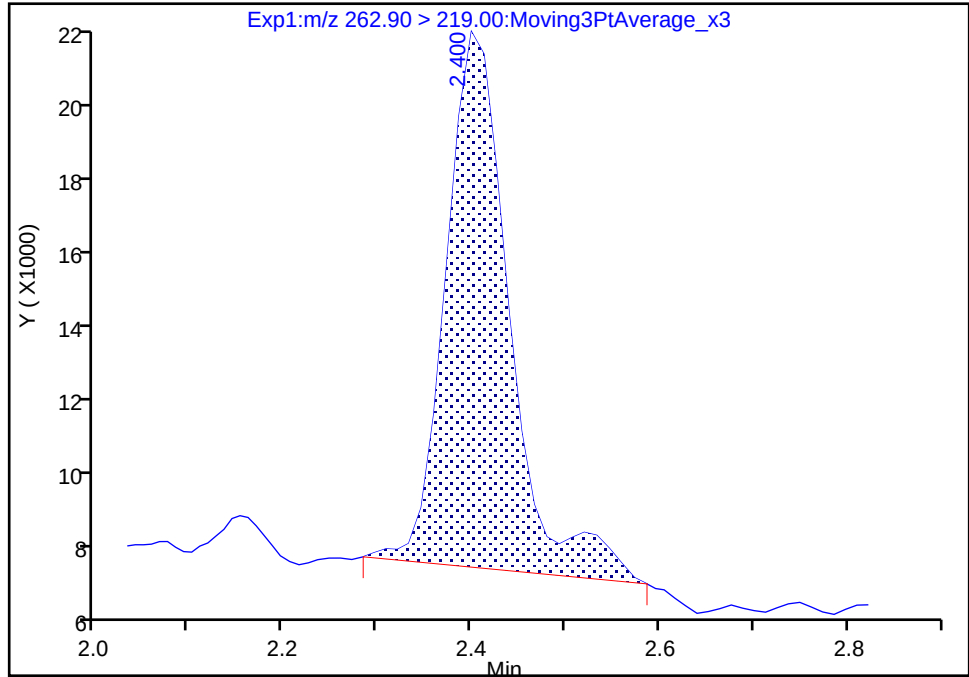
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

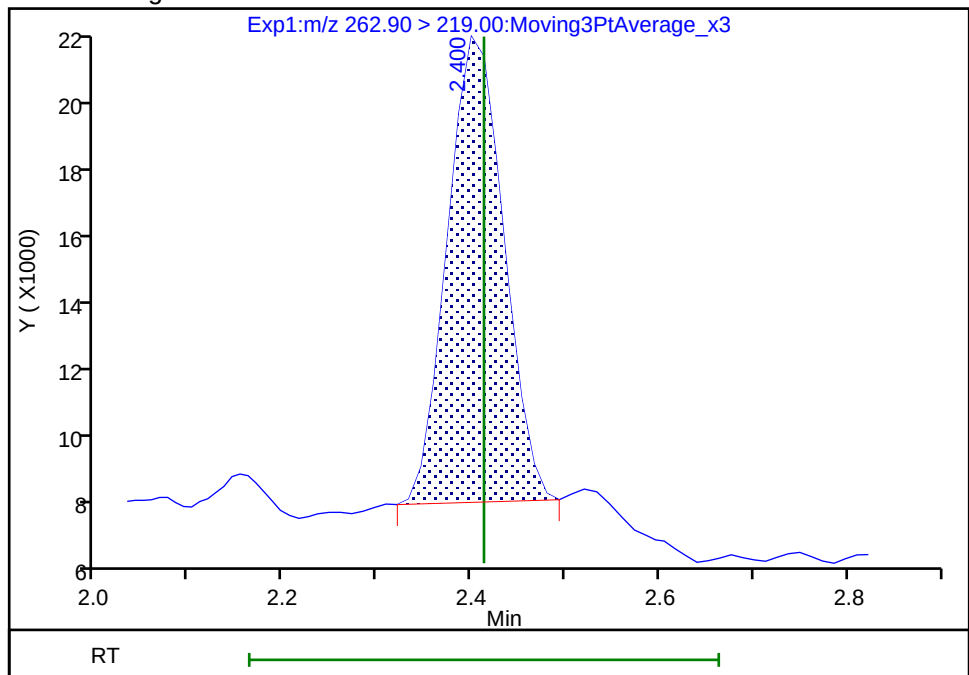
RT: 2.40
Area: 68337
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 57777
Amount: 0.049727
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:44:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 186 of 978

11/21/2022
4:10 PM

Eurofins Burlington

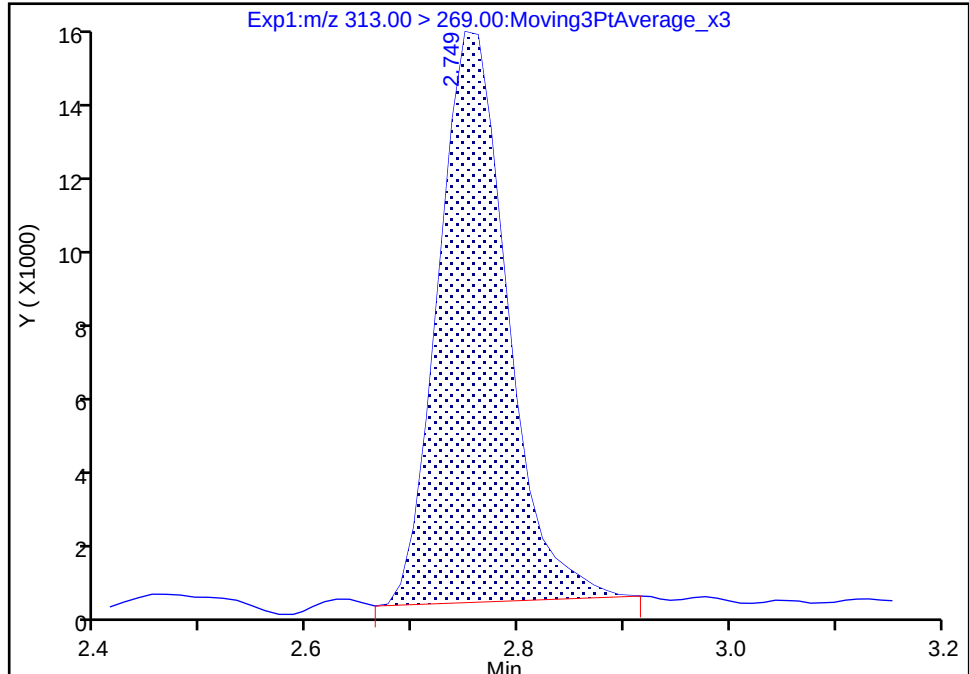
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

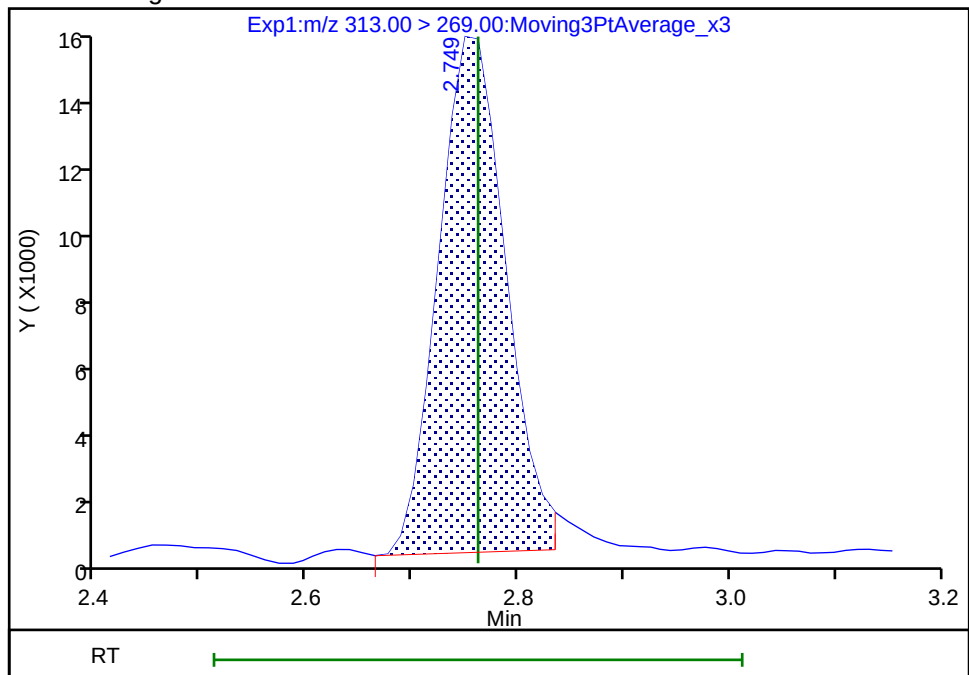
RT: 2.75
Area: 64555
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 62839
Amount: 0.052375
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 187 of 978

11/21/2022
4:10 PM

Eurofins Burlington

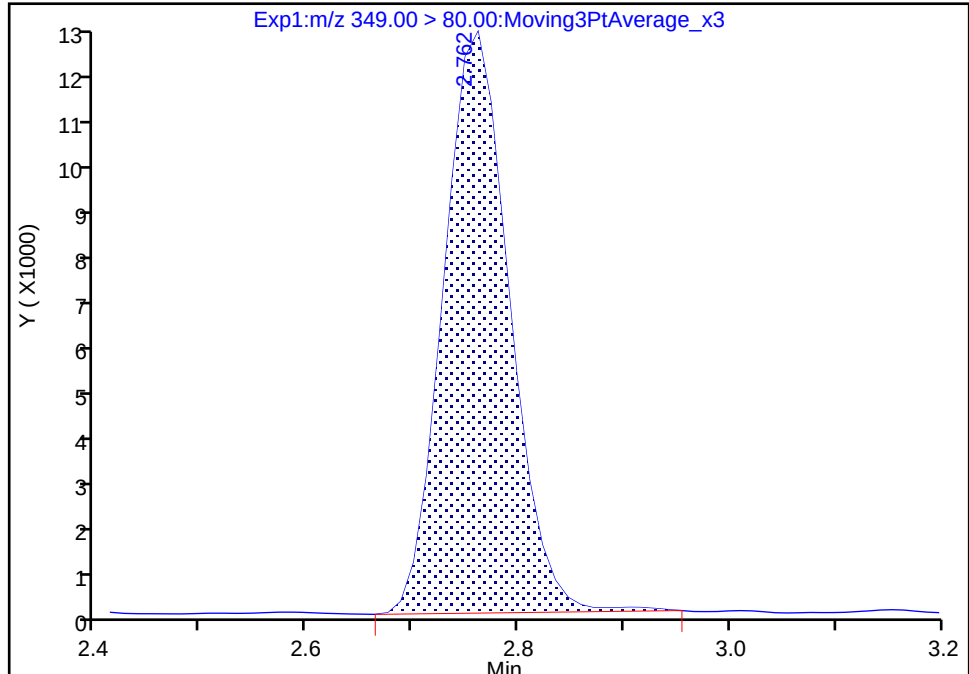
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

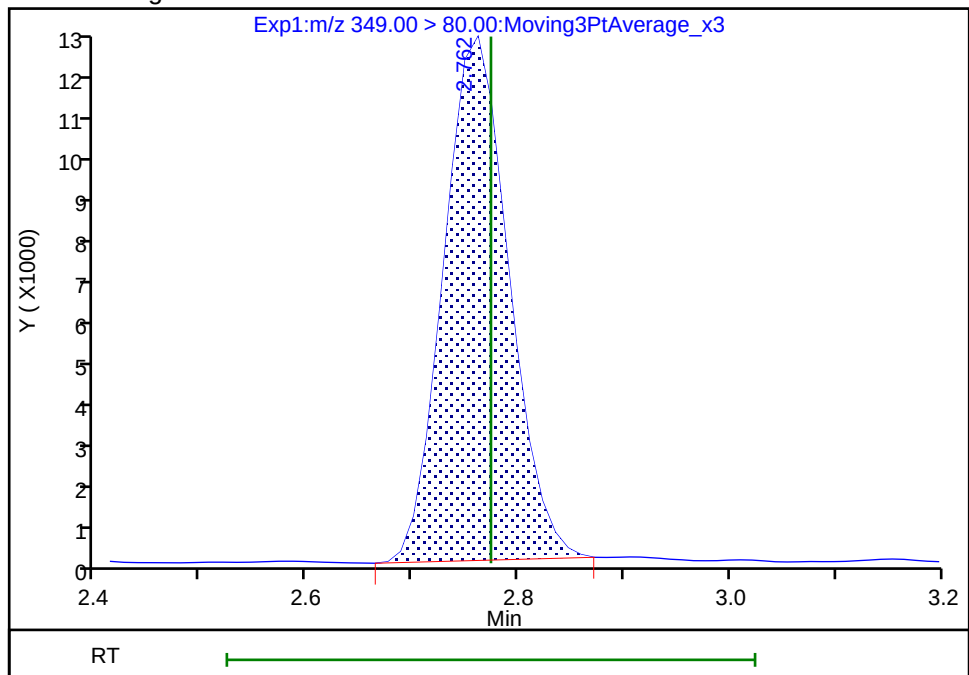
RT: 2.76
Area: 55653
Amount: 0.046900
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 54819
Amount: 0.052116
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 188 of 978

11/21/2022
4:10 PM

Eurofins Burlington

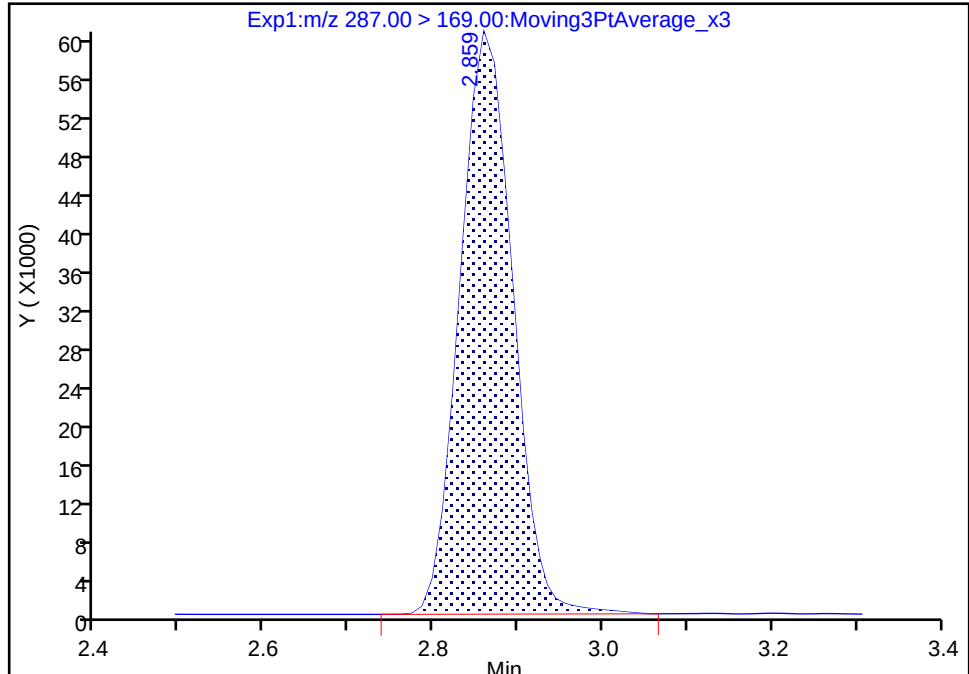
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

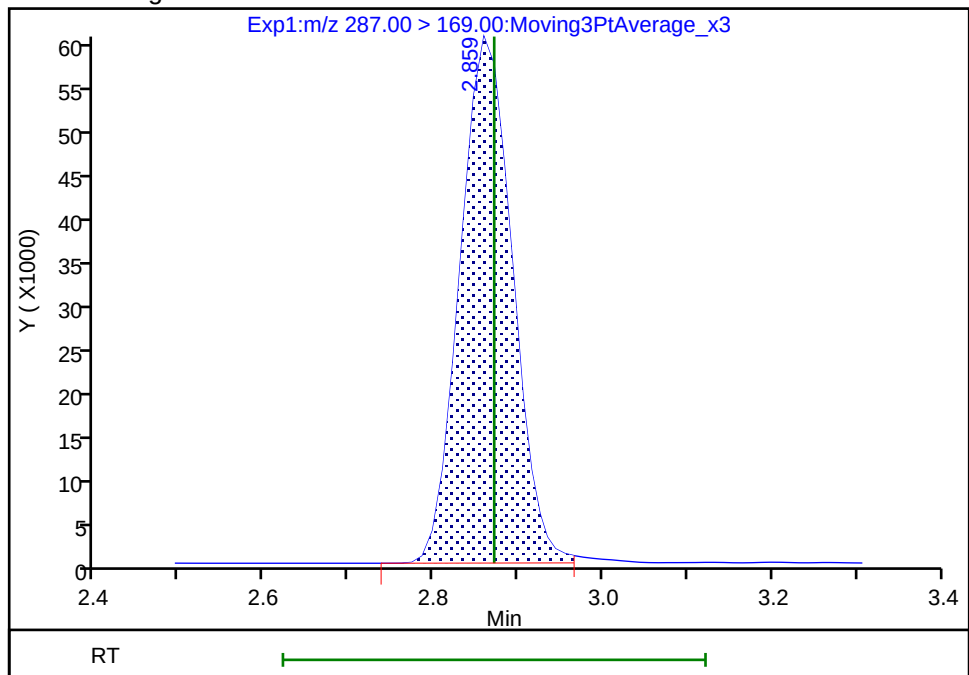
RT: 2.86
Area: 264623
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 2.86
Area: 262754
Amount: 1.238521
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 189 of 978

11/21/2022
4:10 PM

Eurofins Burlington

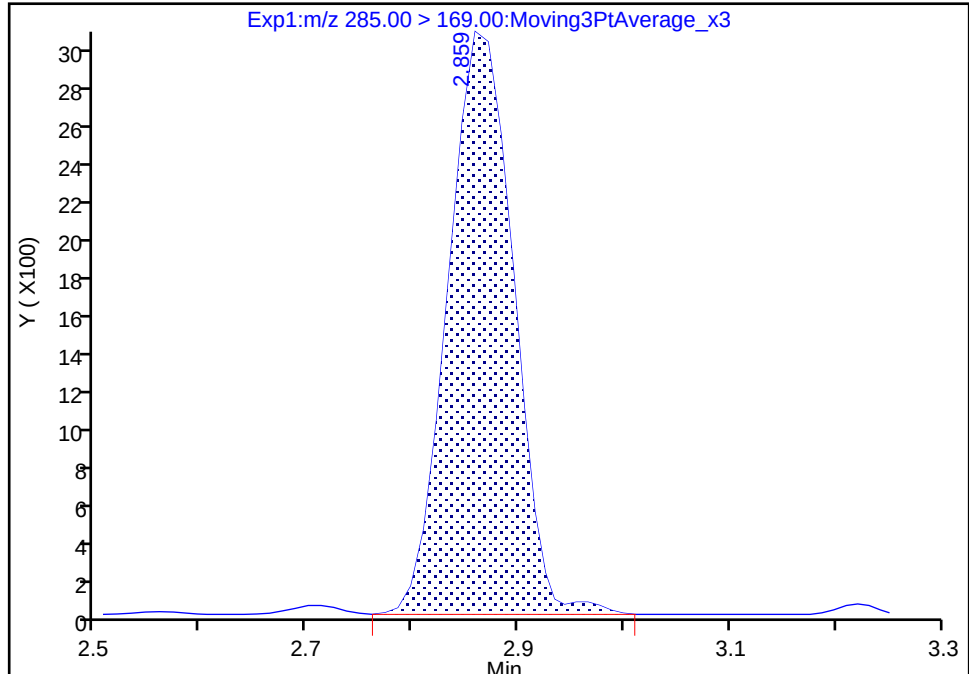
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

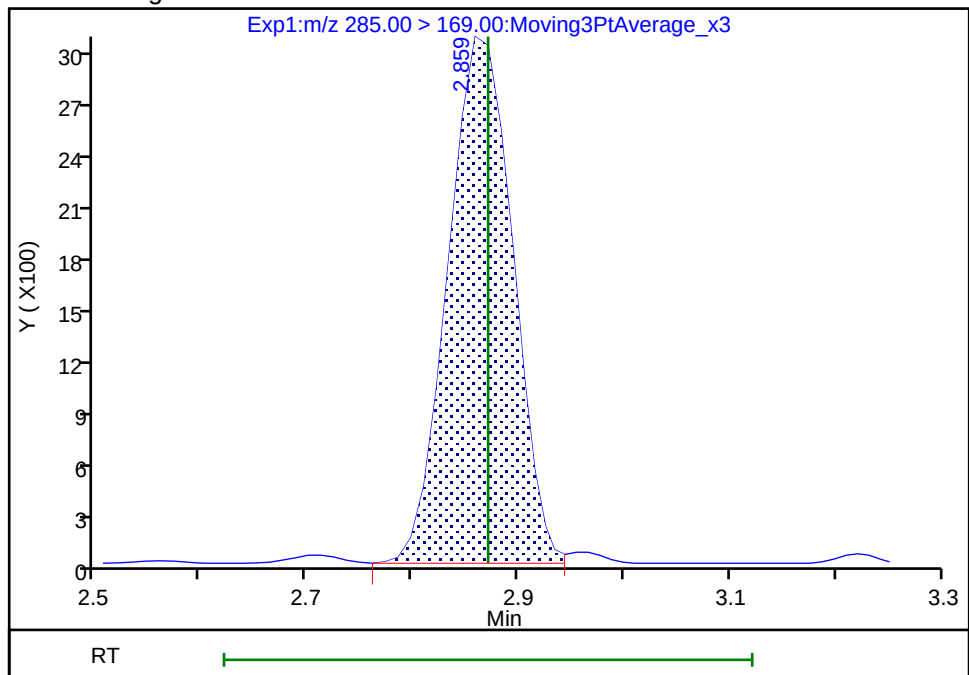
RT: 2.86
Area: 12998
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.86
Area: 12850
Amount: 0.055964
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 190 of 978

11/21/2022
4:10 PM

Eurofins Burlington

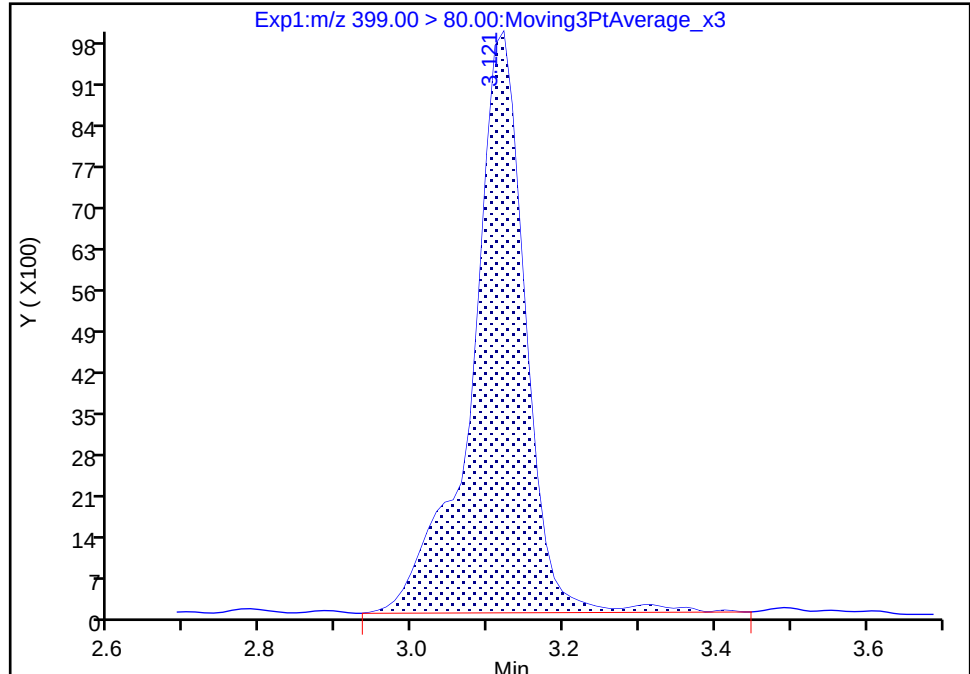
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

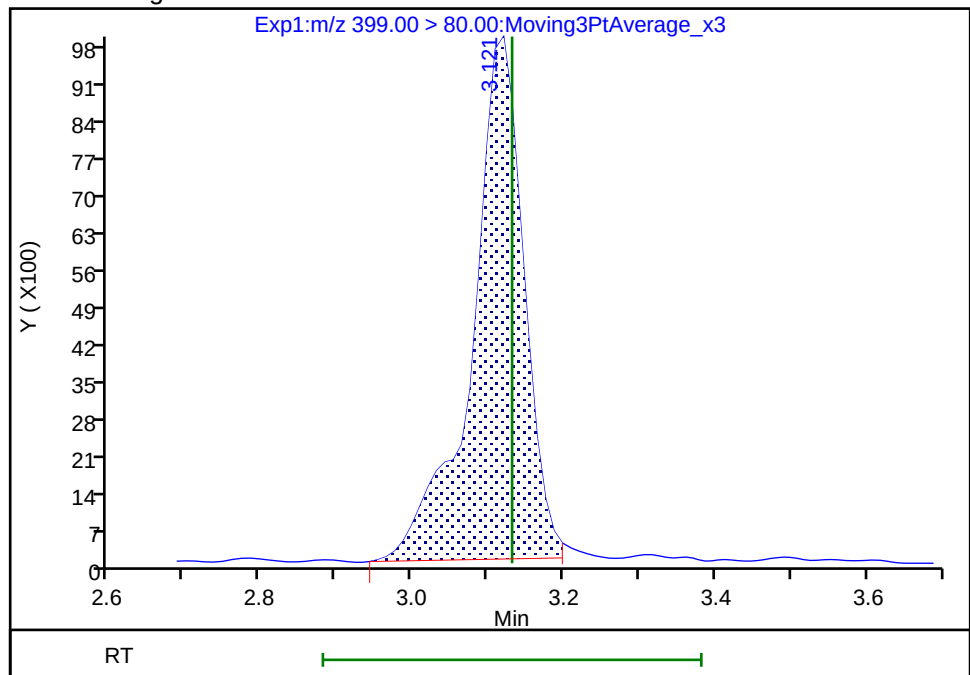
RT: 3.12
Area: 48675
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 46735
Amount: 0.052420
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 191 of 978

11/21/2022
4:10 PM

Eurofins Burlington

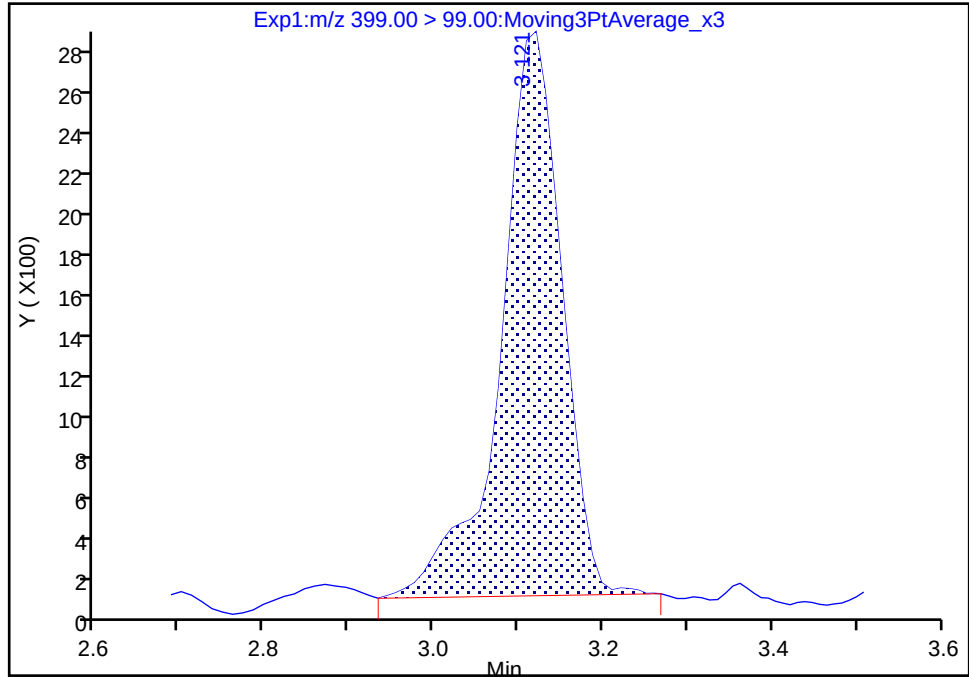
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

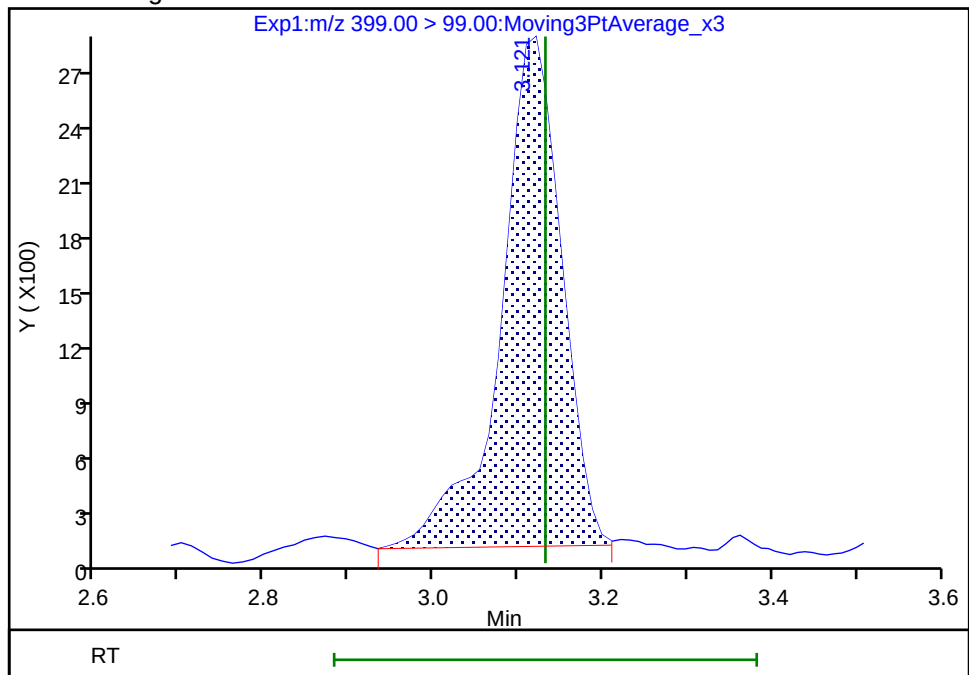
RT: 3.12
Area: 13641
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 13577
Amount: 0.052420
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:45:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 192 of 97811/21/2022
4:10 PM

Eurofins Burlington

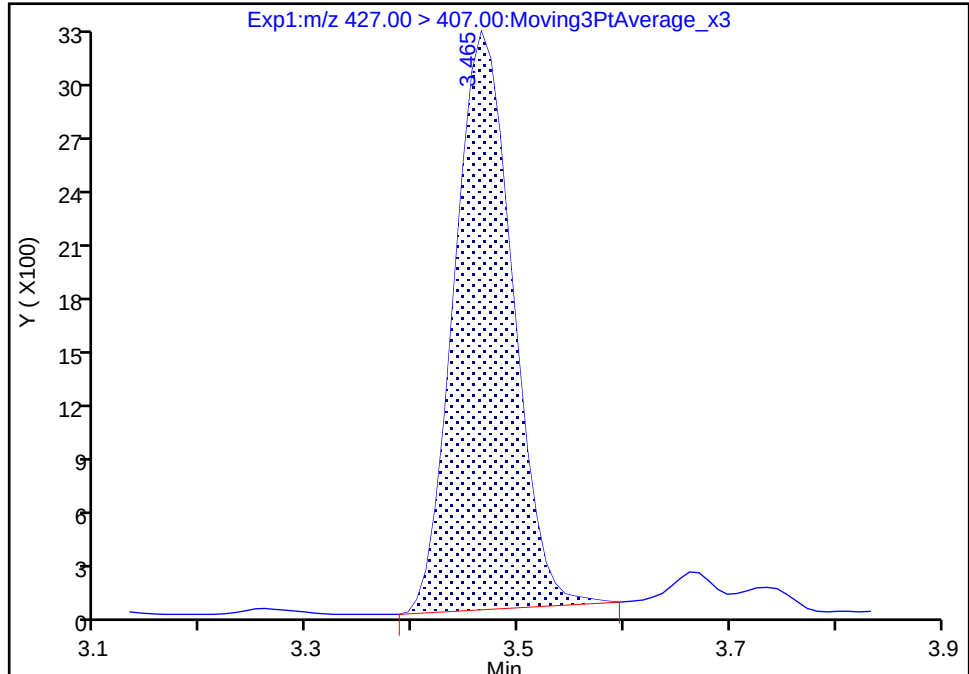
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

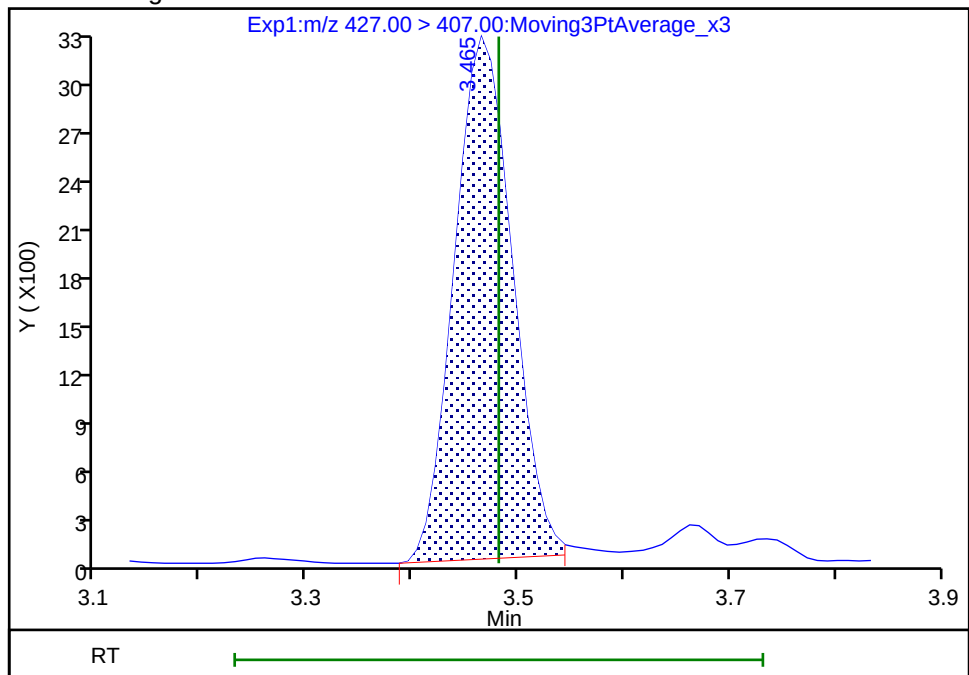
RT: 3.46
Area: 12325
Amount: 0.044447
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 12242
Amount: 0.048666
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:46:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 193 of 978

11/21/2022
4:10 PM

Eurofins Burlington

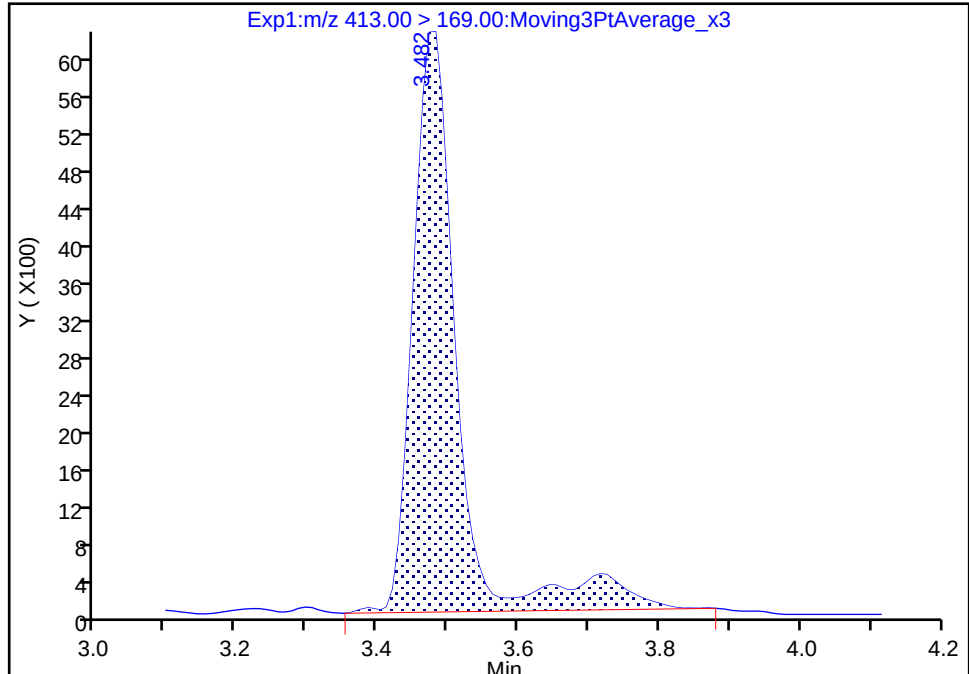
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

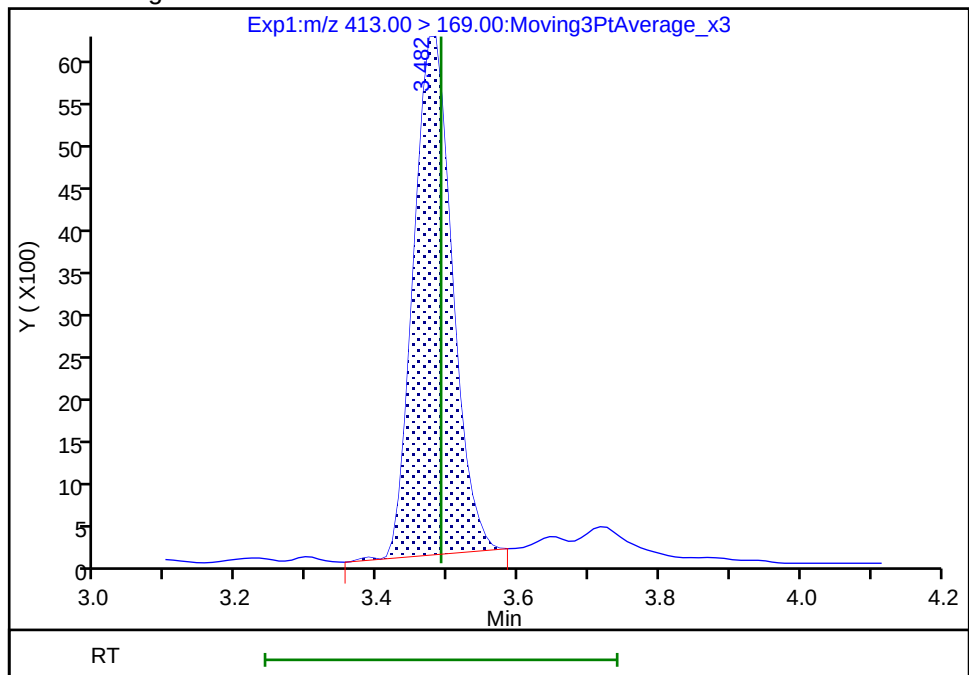
RT: 3.48
Area: 27356
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 23414
Amount: 0.054981
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:46:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 194 of 978

11/21/2022
4:10 PM

Eurofins Burlington

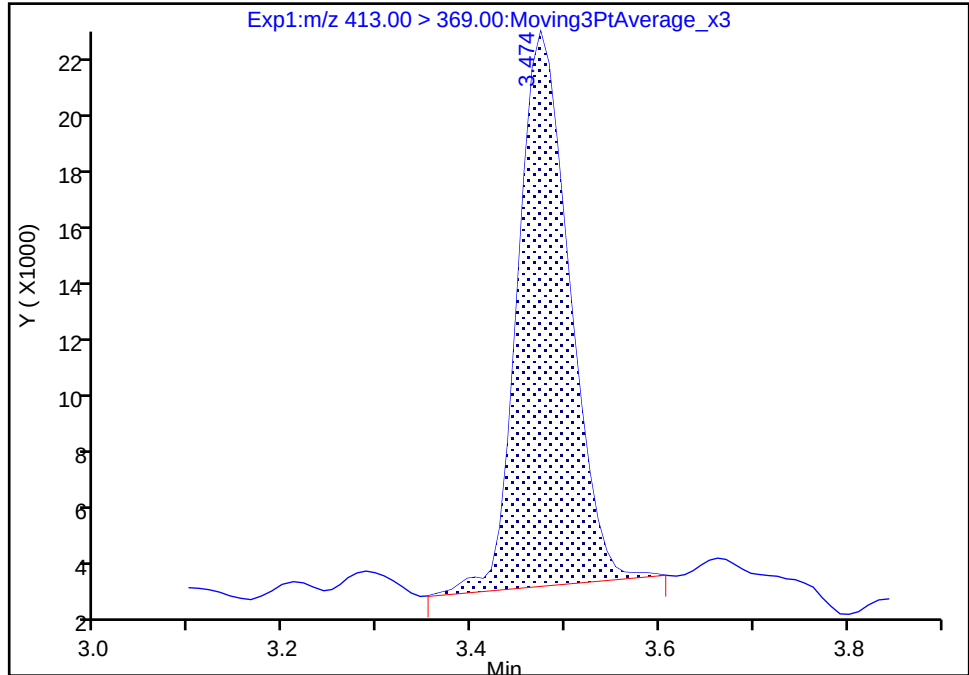
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

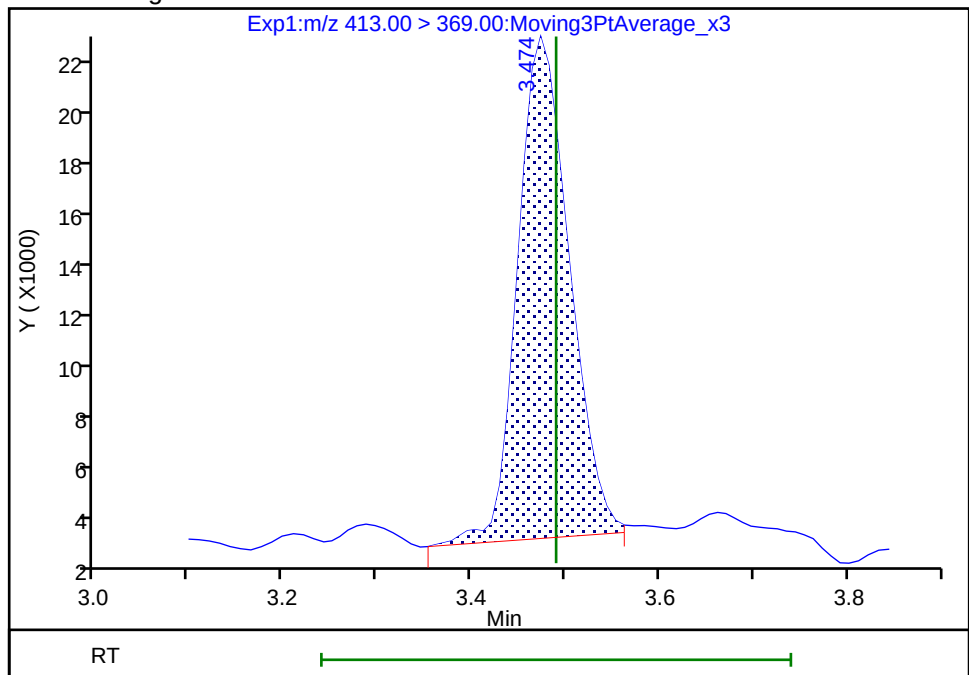
RT: 3.47
Area: 74516
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 74342
Amount: 0.054981
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:46:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 195 of 97811/21/2022
4:10 PM

Eurofins Burlington

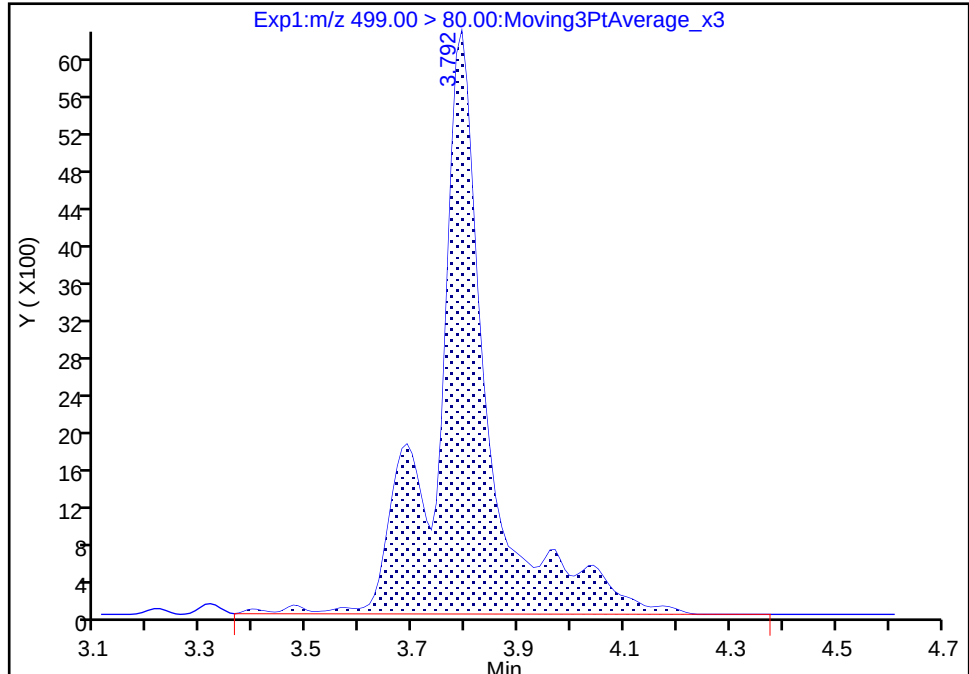
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

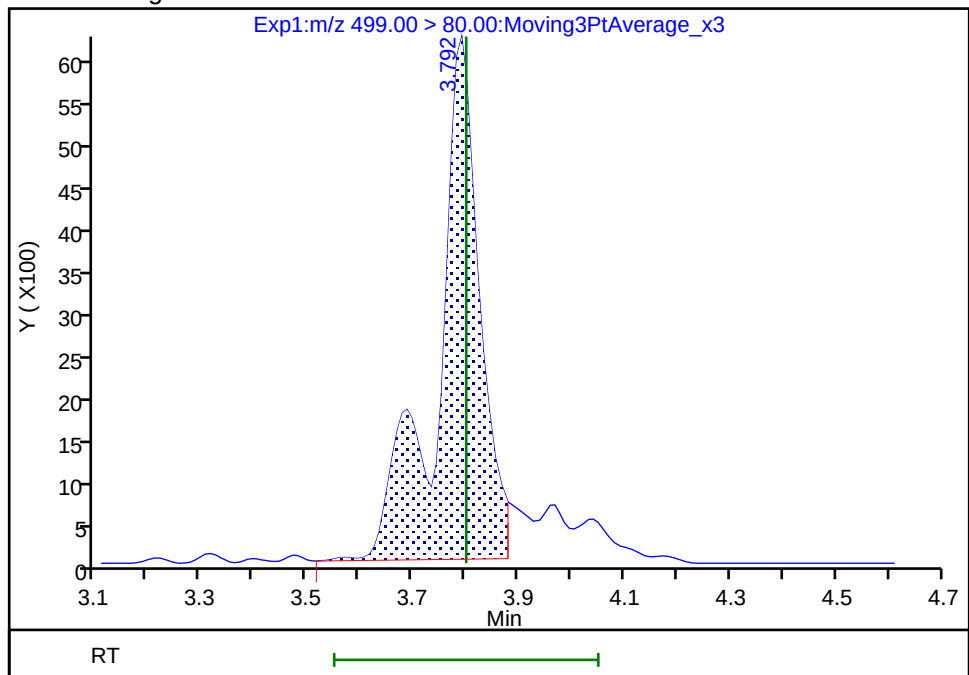
RT: 3.79
Area: 42413
Amount: 0.061853
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 34174
Amount: 0.053003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:46:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 196 of 978

11/21/2022
4:10 PM

Eurofins Burlington

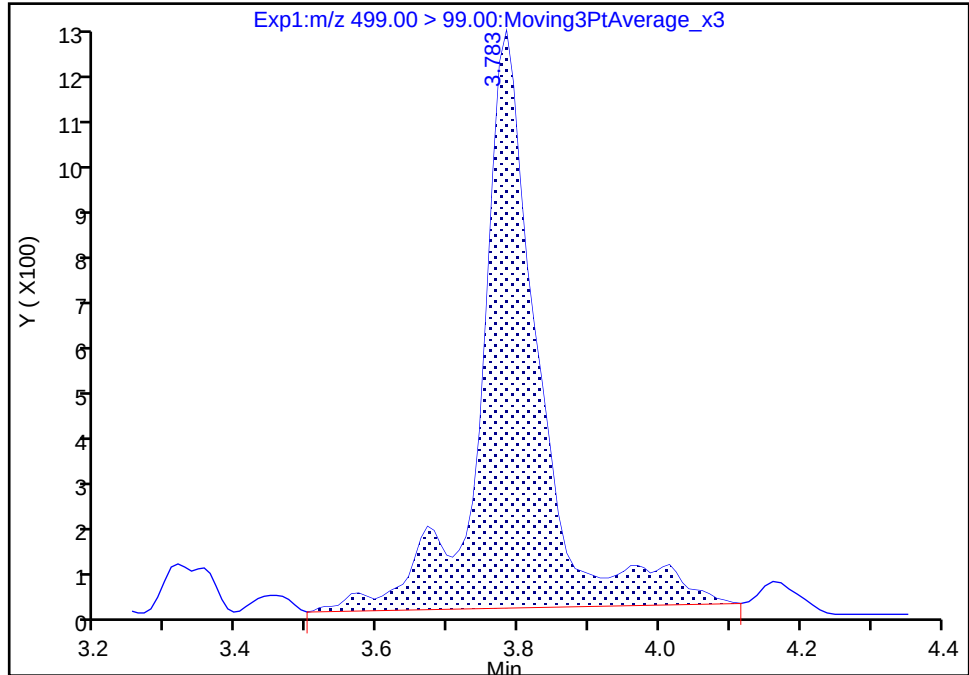
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

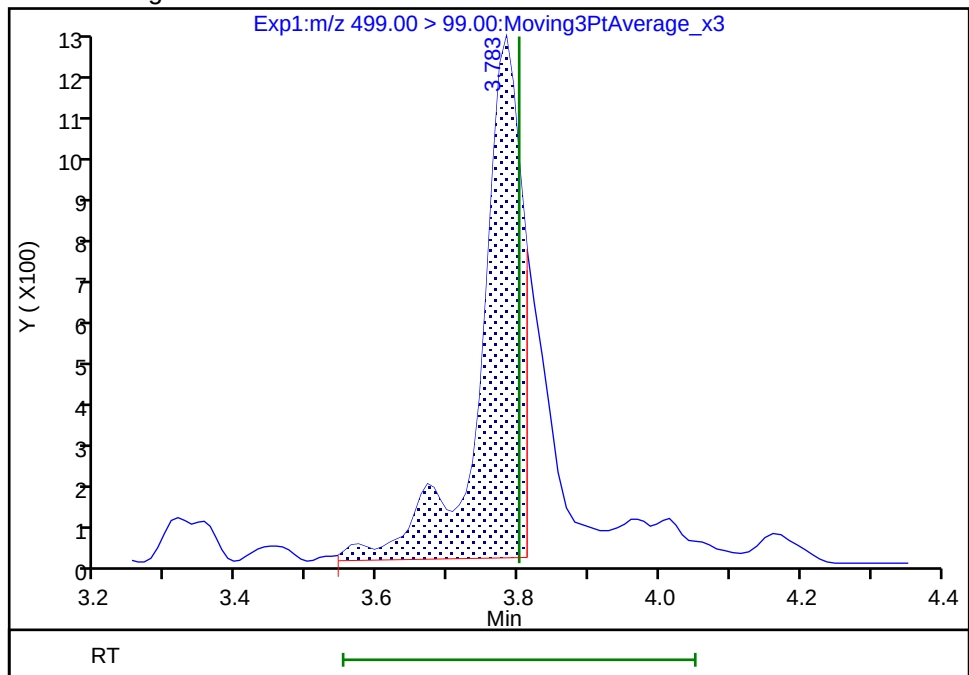
RT: 3.78
Area: 7415
Amount: 0.061853
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 5152
Amount: 0.053003
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:47:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 197 of 97811/21/2022
4:10 PM

Eurofins Burlington

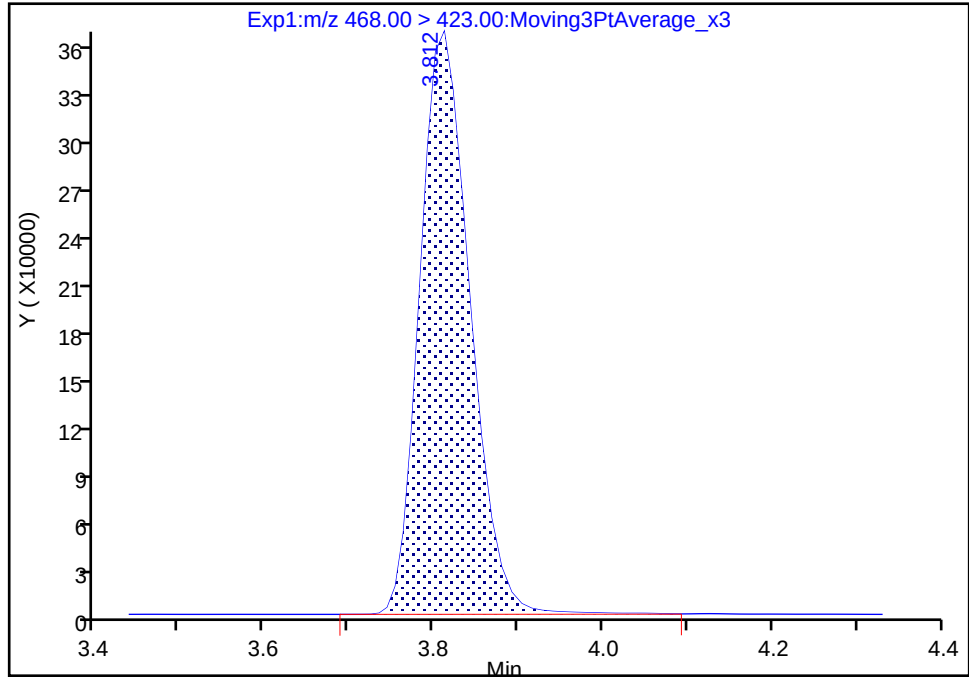
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

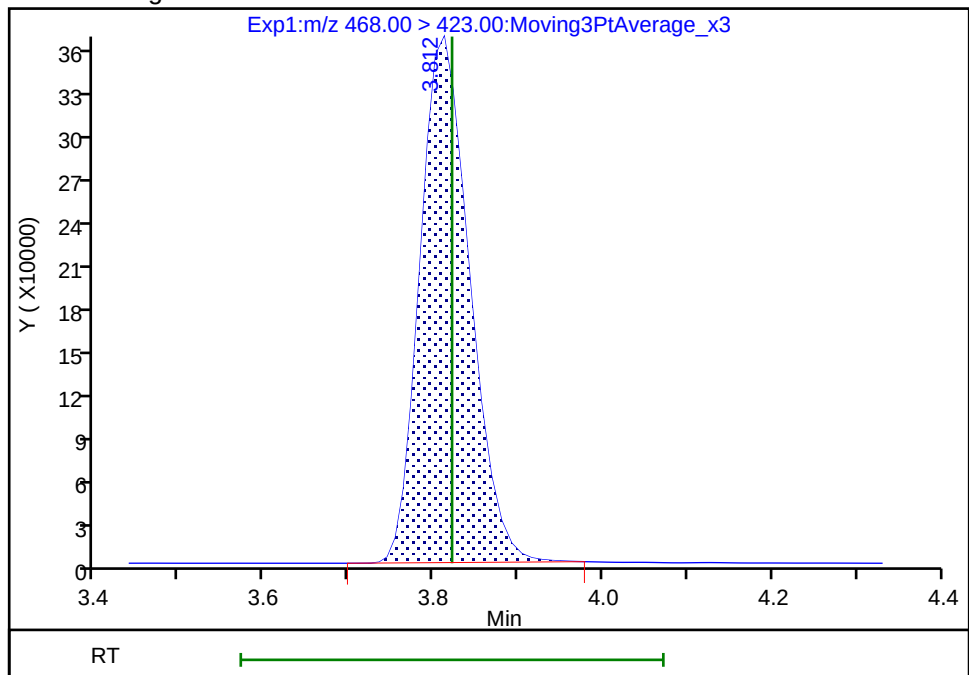
RT: 3.81
Area: 1493140
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 1481275
Amount: 1.268004
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:47:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

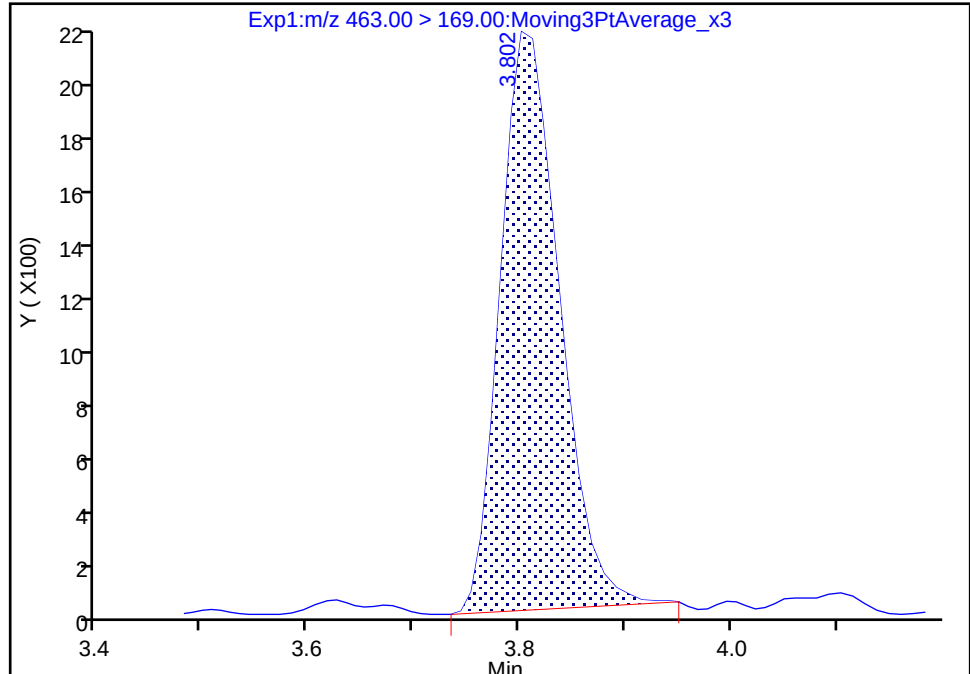
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

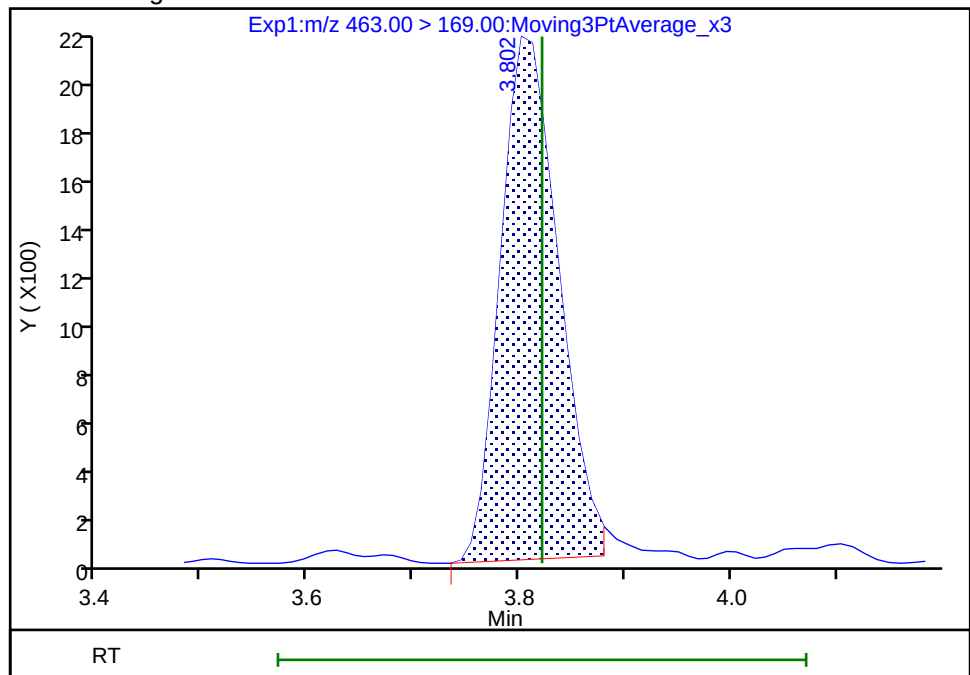
RT: 3.80
Area: 8246
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 8112
Amount: 0.054805
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:47:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 199 of 978

11/21/2022
4:10 PM

Eurofins Burlington

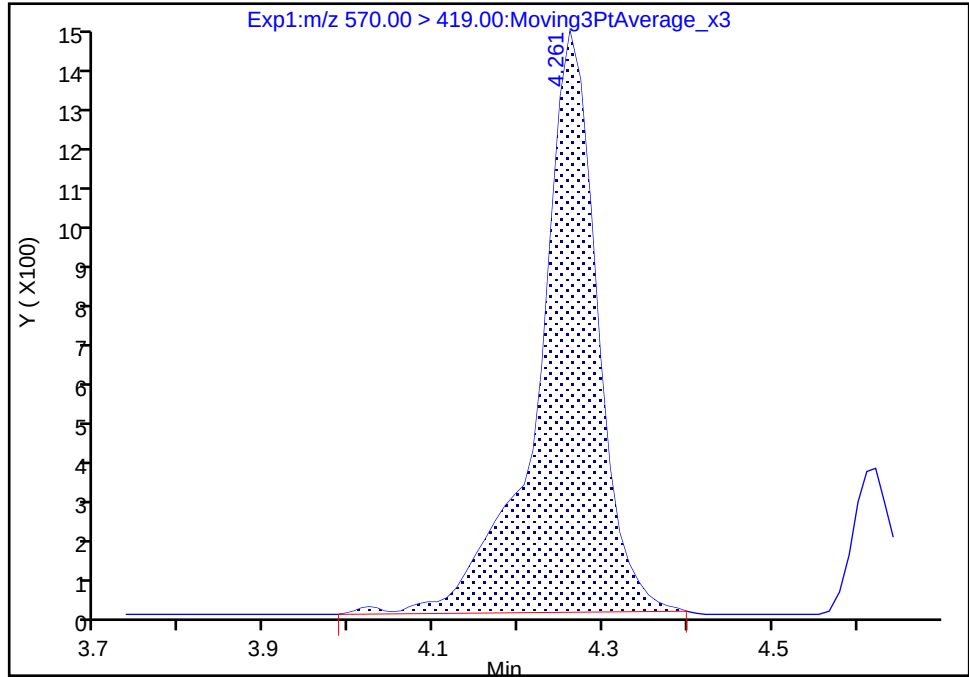
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

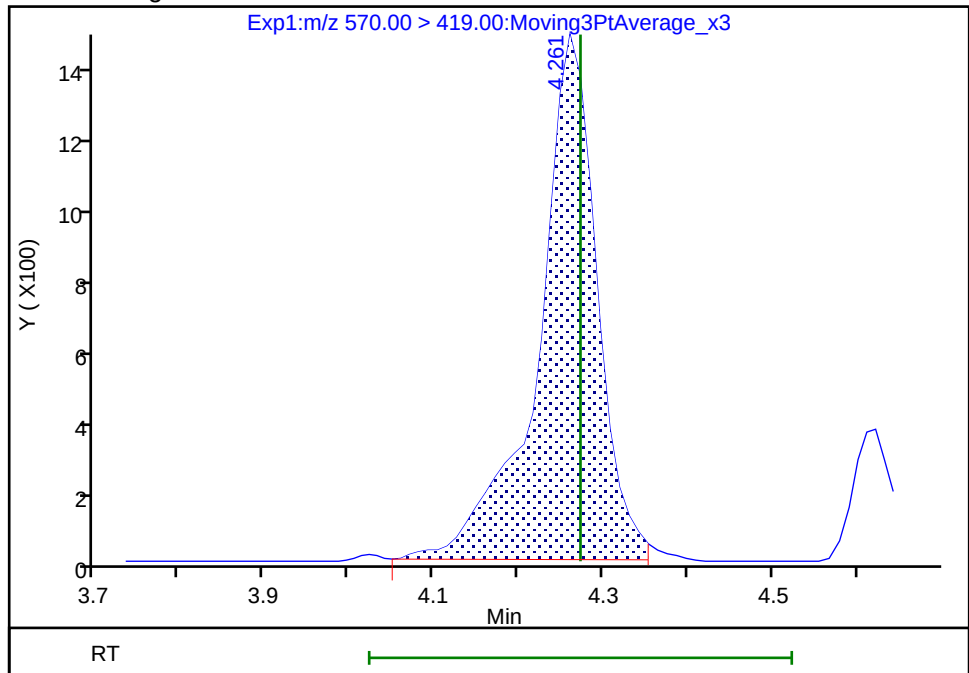
RT: 4.26
Area: 7182
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 7084
Amount: 0.049572
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:47:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 200 of 978

11/21/2022
4:10 PM

Eurofins Burlington

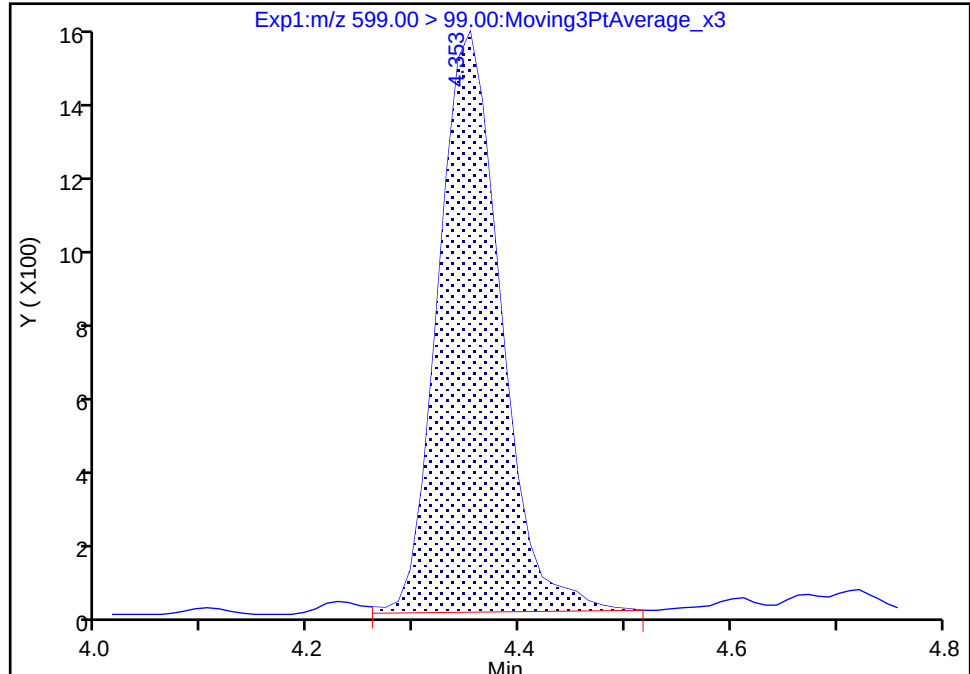
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

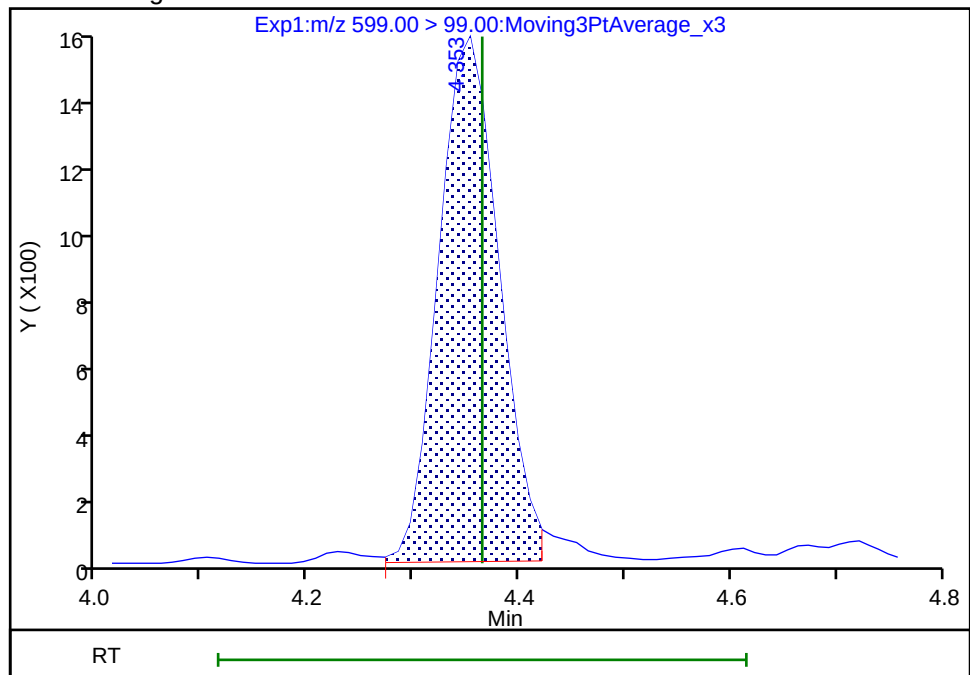
RT: 4.35
Area: 6438
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 6241
Amount: 0.056722
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:47:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

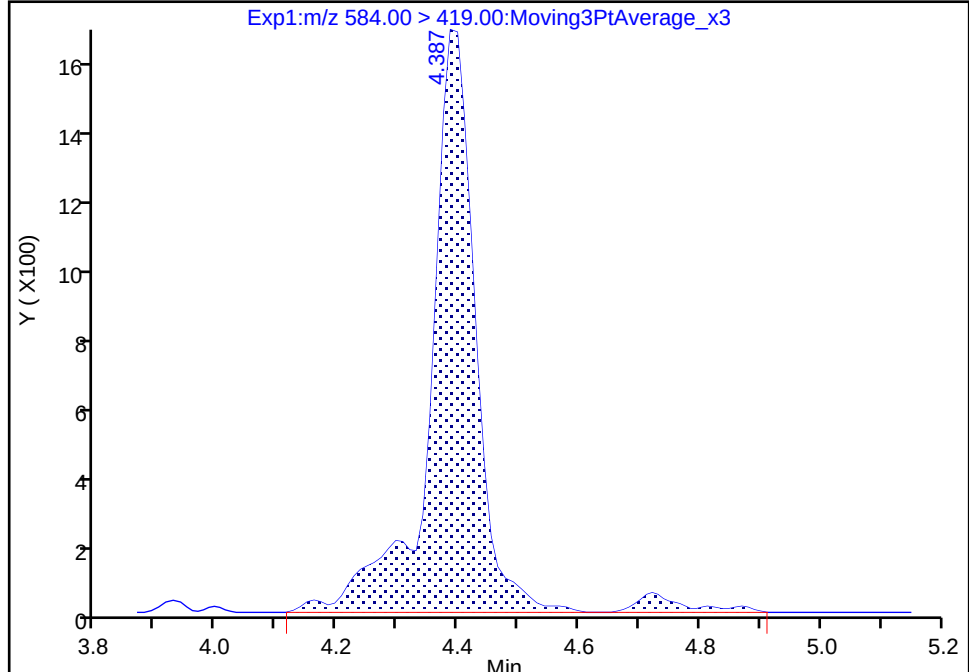
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

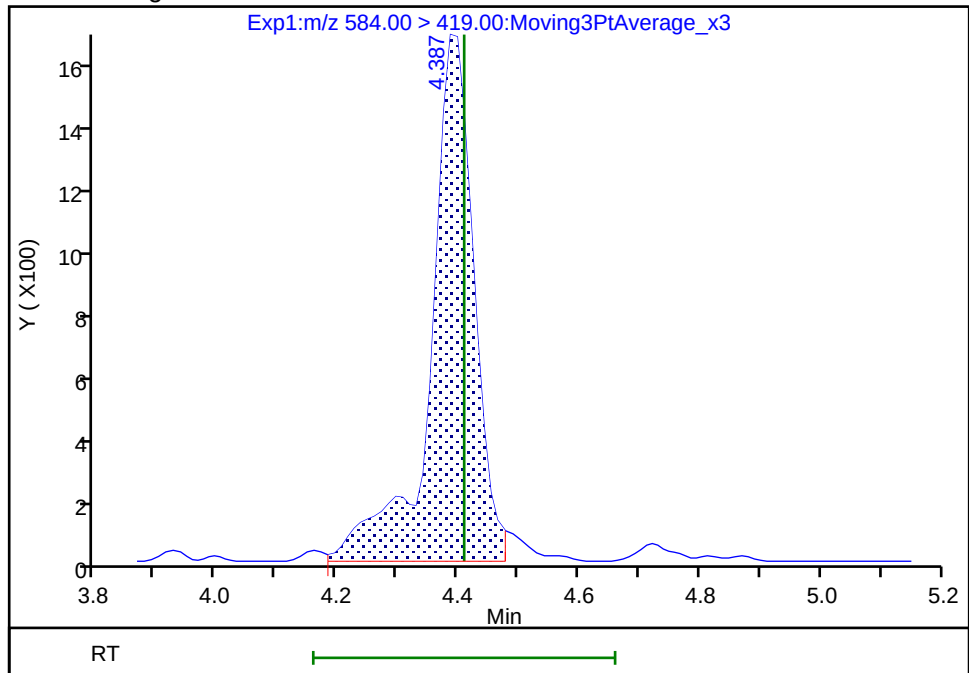
RT: 4.39
Area: 8845
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 8198
Amount: 0.055941
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 202 of 978

11/21/2022
4:10 PM

Eurofins Burlington

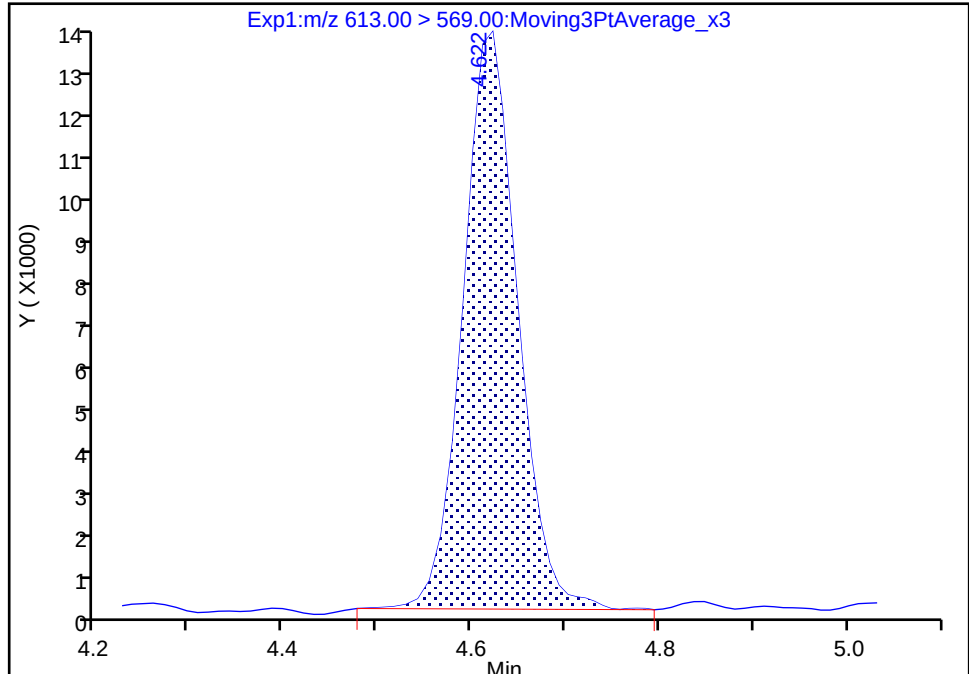
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

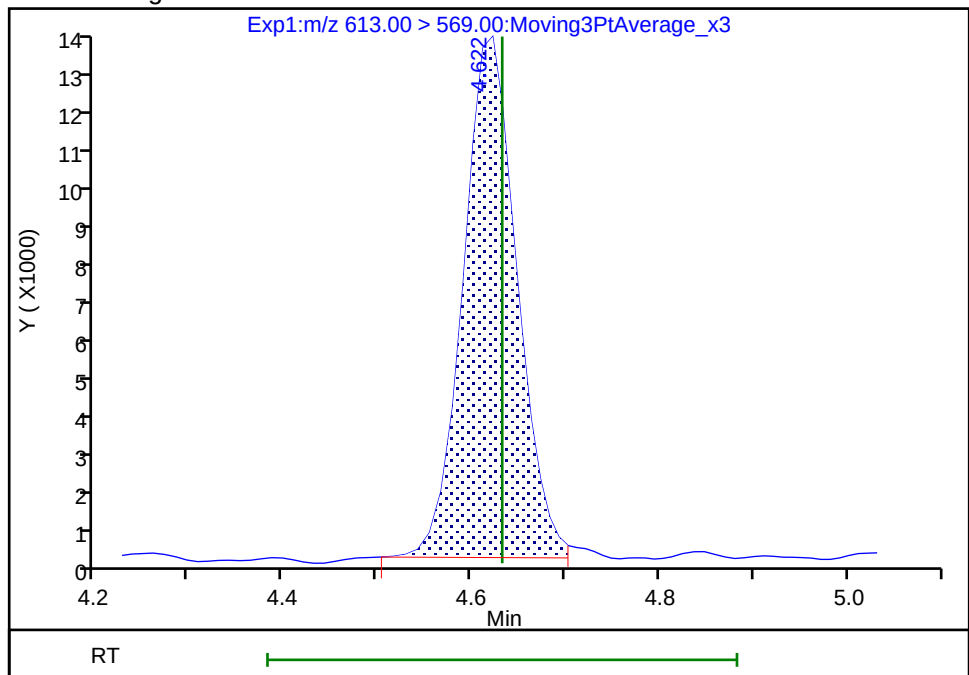
RT: 4.62
Area: 51653
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 50784
Amount: 0.053303
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 203 of 978

11/21/2022
4:10 PM

Eurofins Burlington

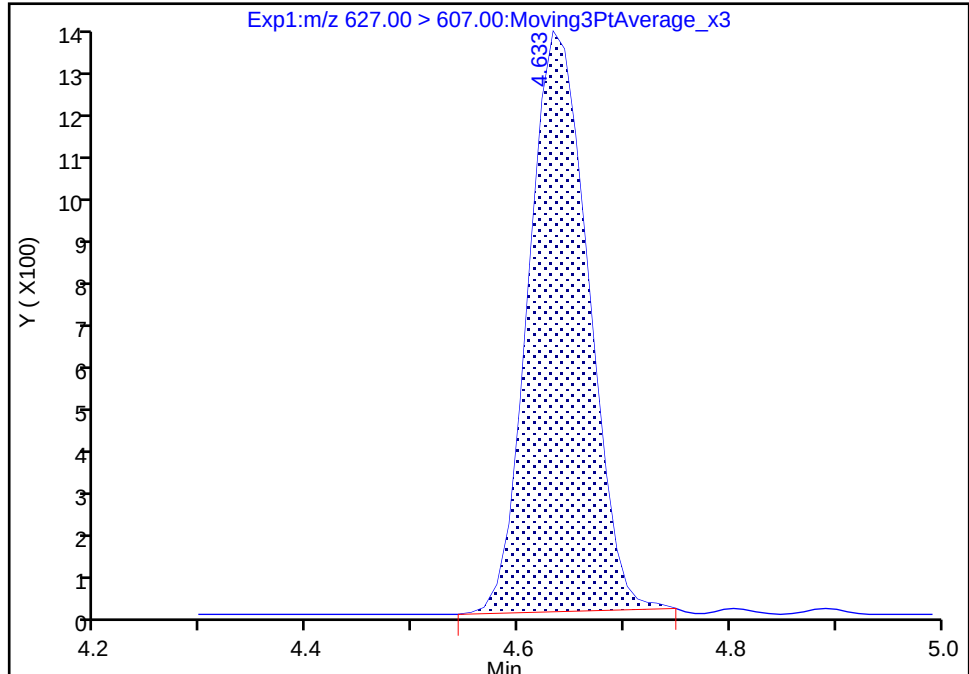
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

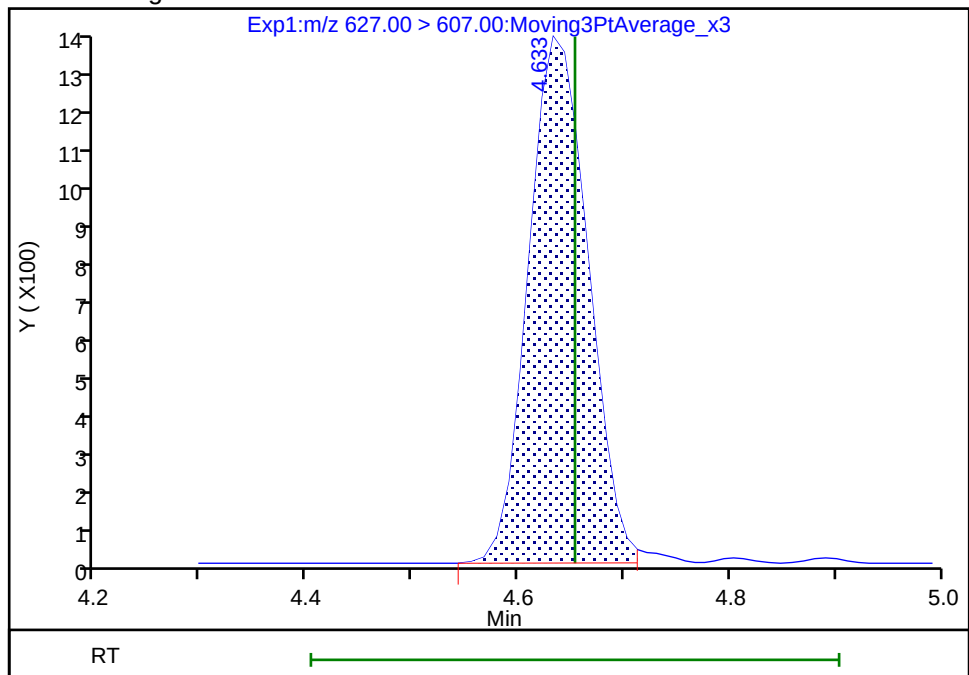
RT: 4.63
Area: 5373
Amount: 0.048200
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 5400
Amount: 0.050493
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 204 of 978

11/21/2022
4:10 PM

Eurofins Burlington

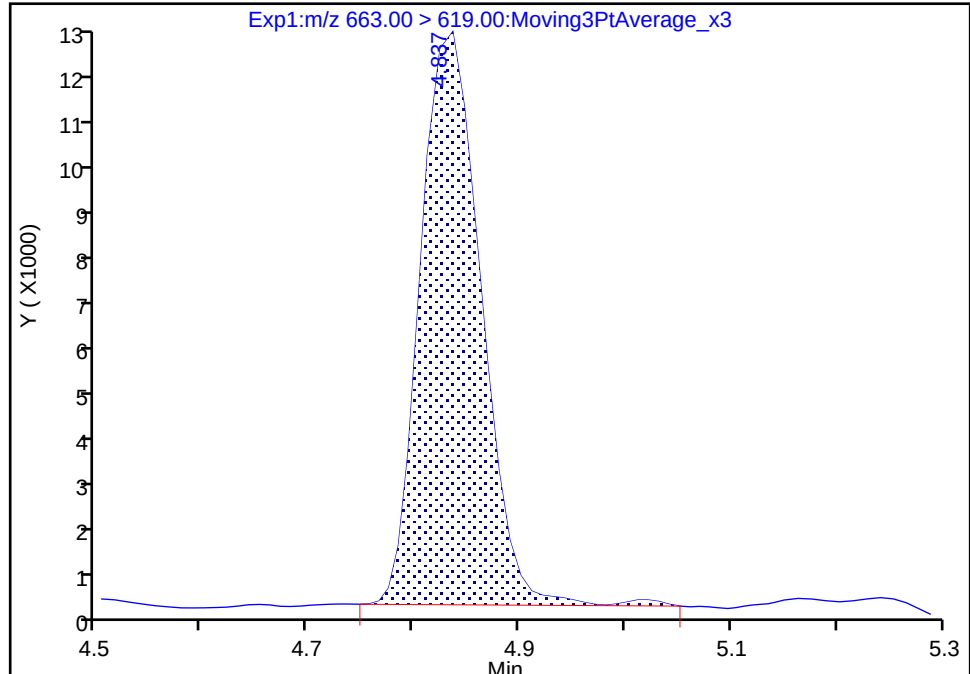
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

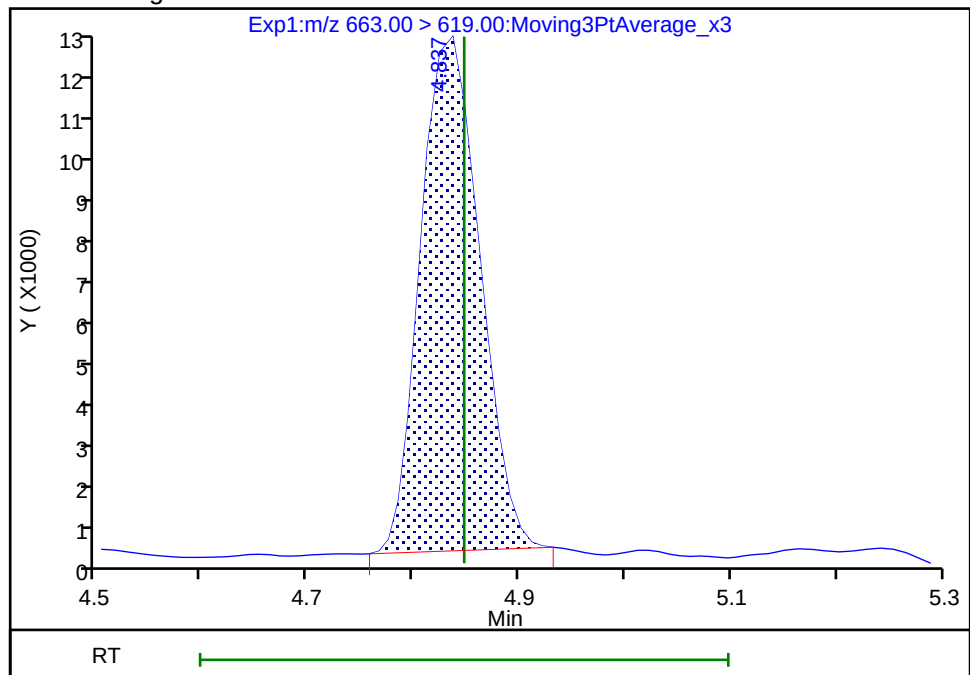
RT: 4.84
Area: 47948
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 46398
Amount: 0.053137
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 205 of 978

11/21/2022
4:10 PM

Eurofins Burlington

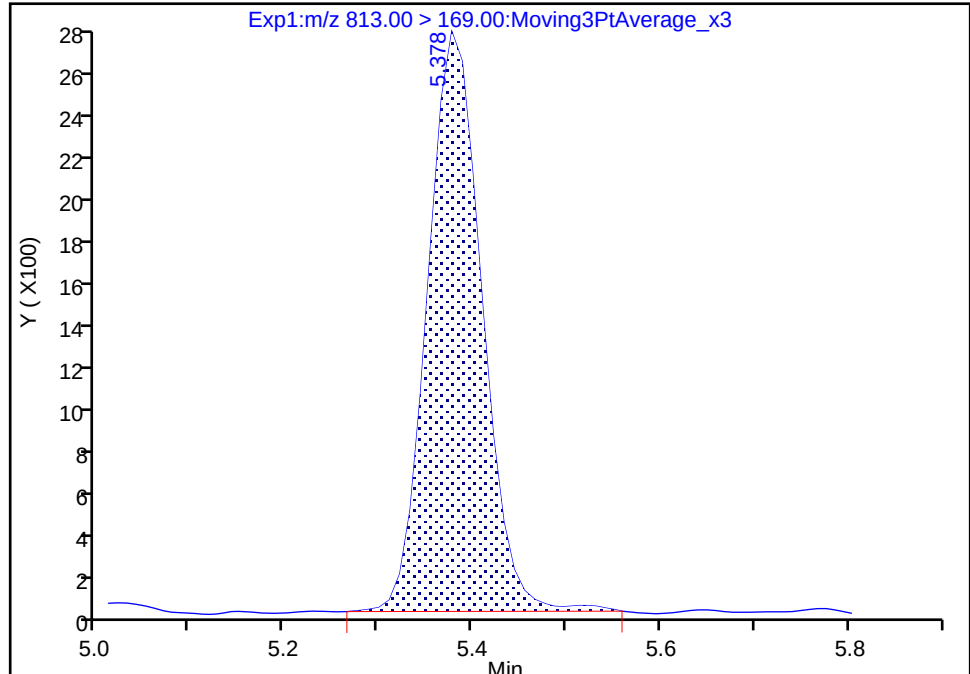
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

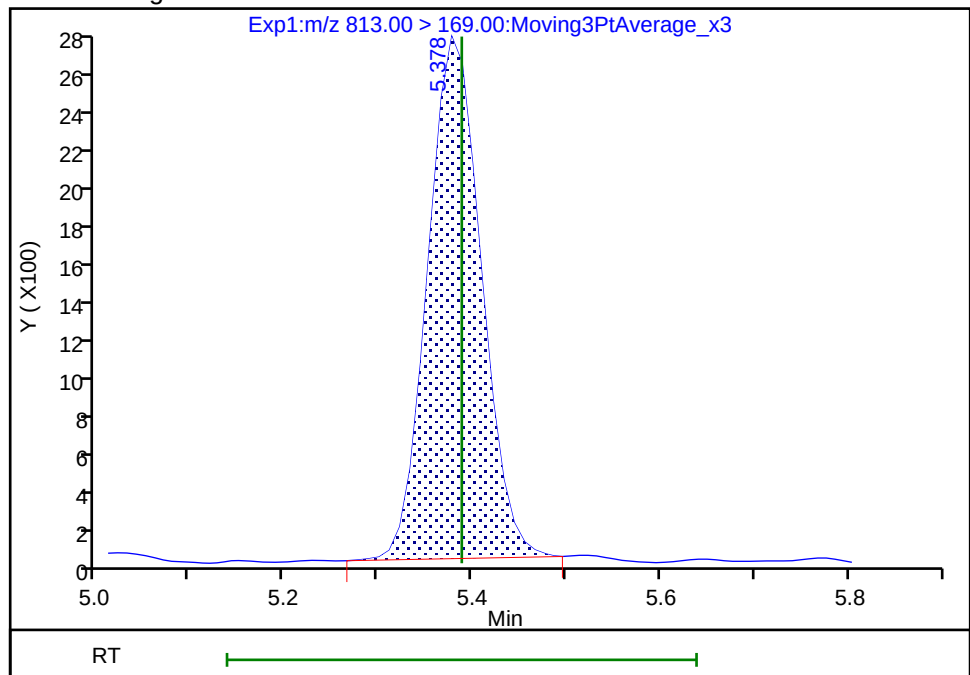
RT: 5.38
Area: 10904
Amount: 0.049230
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 10691
Amount: 0.042085
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 206 of 978

11/21/2022
4:10 PM

Eurofins Burlington

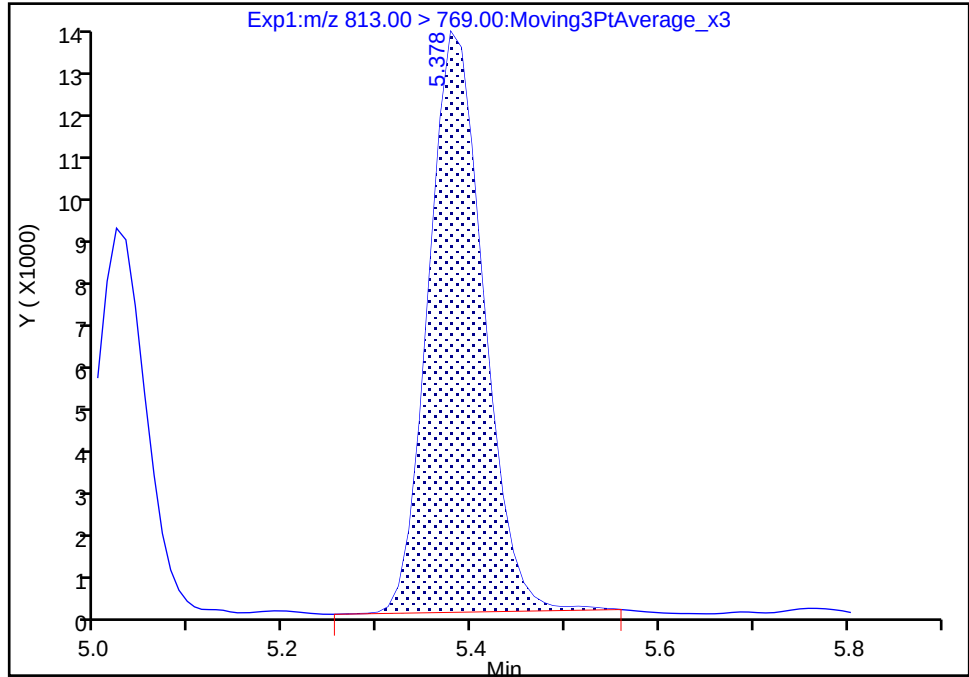
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

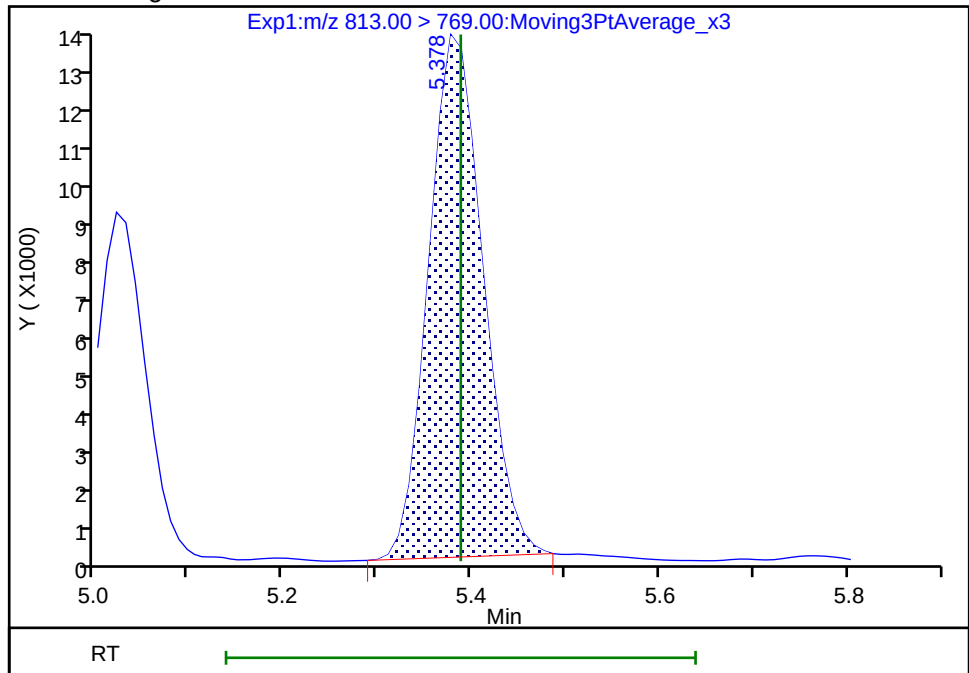
RT: 5.38
Area: 53182
Amount: 0.049230
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 52239
Amount: 0.042085
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:48:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 207 of 97811/21/2022
4:10 PM

Eurofins Burlington

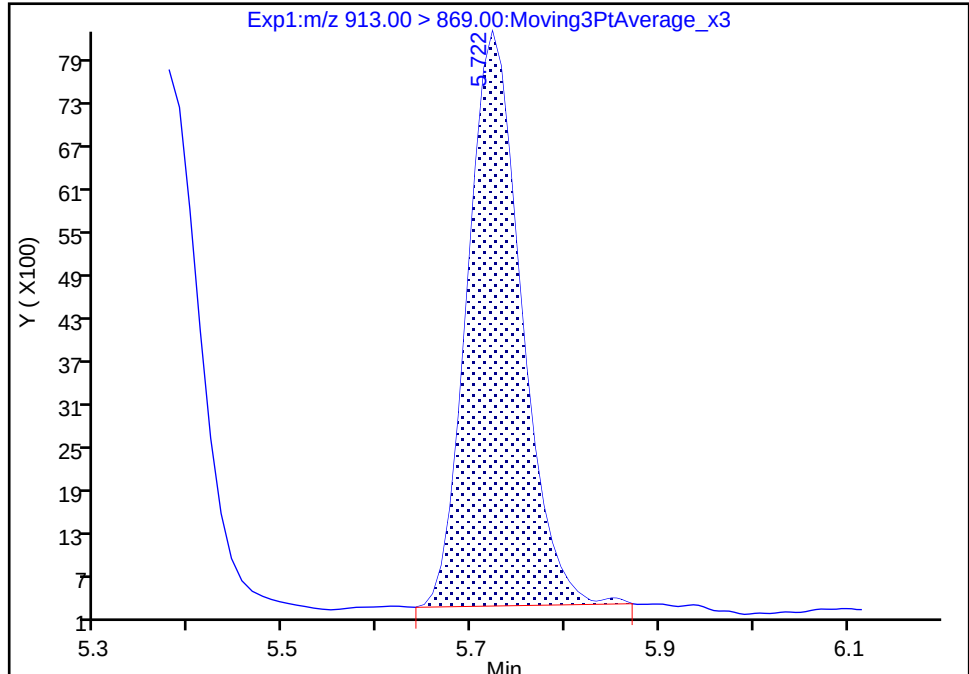
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL05.d
Injection Date: 14-Sep-2022 10:33:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

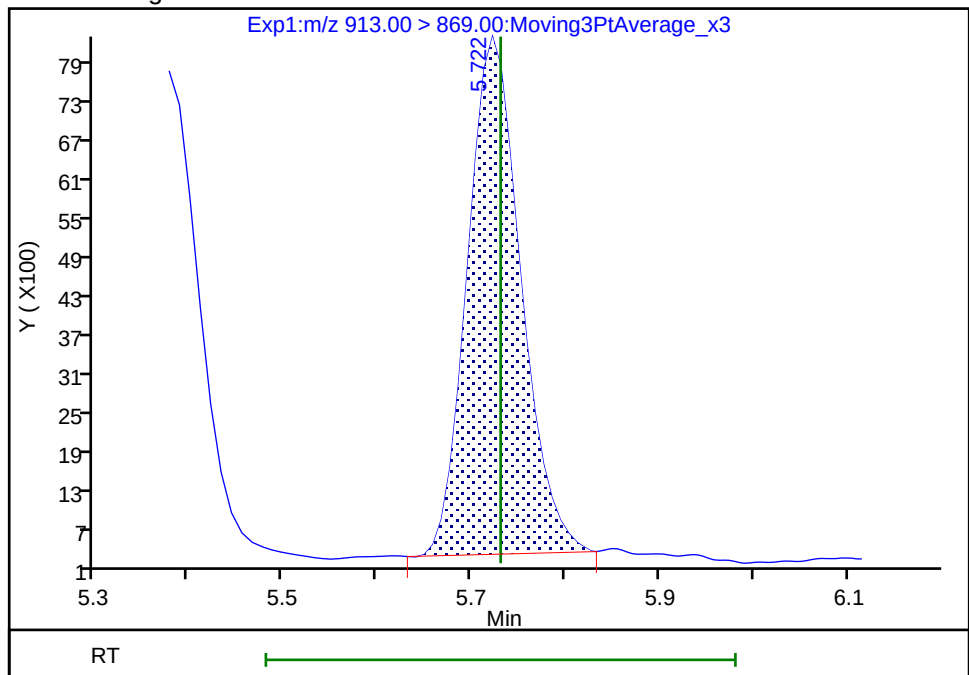
RT: 5.72
Area: 31748
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 31346
Amount: 0.051036
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:49:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 208 of 978

11/21/2022
4:10 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Sep-2022 10:41:50 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0052438-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:25 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 10:56:14

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 2.085 2.093 -0.008 0.600 2133884 1.27 102 16927

2 Perfluorobutanoic acid

212.90 > 169.00 2.094 2.102 -0.008 1.004 186860 0.1081 108 20.8 M

D 3 13C5 PFPeA

267.90 > 223.00 2.400 2.413 -0.013 0.691 1726959 1.31 104 3489

4 Perfluoropentanoic acid

262.90 > 219.00 2.400 2.413 -0.013 1.000 155221 0.1050 105 5.0

D 47 13C3 PFBS

301.90 > 80.00 2.413 2.426 -0.013 0.695 1599636 1.19 103 242354

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.427 2.426 0.001 1.006 145722 0.0919 Target=2.15 104 152 M

298.90 > 99.00 2.427 2.426 0.001 1.006 69533 2.10(1.07-3.22) 104 64.9 M

D 60 M2-4:2 FTS

329.00 > 81.00 2.713 2.725 -0.012 0.781 139070 1.15 98.1 145

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.713 2.725 -0.012 1.000 32490 0.1005 108 314

D 7 13C2 PFHxA

315.00 > 270.00 2.750 2.762 -0.012 0.792 1677977 1.25 99.8 1911

6 Perfluorohexanoic acid

313.00 > 269.00 2.750 2.762 -0.012 1.000 156797 0.1076 Target=13.89 108 44.7

313.00 > 119.00 2.750 2.762 -0.012 1.000 10640 14.74(6.95-20.84) 108 24.0

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.762 2.774 -0.012 0.888 130412 0.0955 Target=3.05 102 227 M

349.00 > 99.00 2.762 2.774 -0.012 0.888 41340 3.15(1.53-4.58) 102 125 M

67 Perfluoro(2-propoxypropanoic) ac

285.00 > 169.00 2.859 2.871 -0.012 1.000 28980 0.1065 106 365

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	2.859	2.871	-0.012	0.823	311450	1.23		98.7	1116	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.132	-0.011	1.000	160516	0.1092	Target=4.00	109	56.2	M
363.00 > 169.00	3.121	3.132	-0.011	1.000	40016		4.01(2.00-6.00)	109	105	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.132	-0.011	0.898	1648873	1.25		99.8	1586	
D 11 18O2 PFHxS										
403.00 > 84.00	3.110	3.132	-0.022	0.895	1176053	1.23		104	2838	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.132	-0.011	1.004	109266	0.0944	Target=3.63	104	267	M
399.00 > 99.00	3.110	3.132	-0.022	1.000	30670		3.56(1.82-5.45)	104	58.5	M
77 DONA										
377.00 > 251.00	3.154	3.165	-0.011	0.832	357109	0.0985	Target=3.03	105	740	
377.00 > 85.00	3.154	3.165	-0.011	0.832	118230		3.02(1.52-4.55)	105	177	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.465	3.473	-0.008	0.914	92730	0.1009	Target=5.20	106	413	M
449.00 > 99.00	3.465	3.473	-0.008	0.914	17113		5.42(2.60-7.80)	106	119	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.465	3.481	-0.016	1.000	31350	0.0976		103	101	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.481	-0.016	0.997	209346	1.28		108	522	
D 14 13C4 PFOA										
417.00 > 372.00	3.474	3.490	-0.016	1.000	1881802	1.33		107	4397	
* 62 13C2 PFOA										
415.00 > 370.00	3.474	3.490	-0.016		1722394	1.25			1704	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.474	3.490	-0.016	1.000	165097	0.0969	Target=2.83	96.9	15.6	M
413.00 > 169.00	3.474	3.490	-0.016	1.000	61643		2.68(1.41-4.24)	96.9	145	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.793	3.801	-0.009	1.000	77401	0.0977	Target=5.27	105	70.8	M
499.00 > 99.00	3.793	3.801	-0.009	1.000	15224		5.08(2.64-7.91)	105	63.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.793	3.801	-0.009	1.092	779606	1.24		104	2357	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.812	3.821	-0.009	1.000	164777	0.1131	Target=8.24	113	56.5	M
463.00 > 169.00	3.812	3.821	-0.009	1.000	19237		8.57(4.12-12.36)	113	167	
D 19 13C5 PFNA										
468.00 > 423.00	3.812	3.821	-0.009	1.097	1735041	1.25		99.9	2927	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.960	3.969	-0.009	1.044	153115	0.0963		103	1087	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.081	4.104	-0.023	1.076	58280	0.1009	Target=2.56	105	535	
549.00 > 99.00	4.081	4.104	-0.023	1.076	22596		2.58(1.28-3.84)	105	142	
D 23 13C2 PFDA										
515.00 > 470.00	4.116	4.127	-0.011	1.185	1729780	1.28		102	1667	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	4.116	4.127	-0.011	1.000	158346	0.1064	Target=9.84	106	87.0	
513.00 > 169.00	4.116	4.127	-0.011	1.000	16457		9.62(4.92-14.76)	106	44.1	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.138	-0.011	1.188	245730	1.27		106	845	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.116	4.138	-0.022	0.997	23997	0.0944		98.5	223	M
D 21 13C8 FOSA										
506.00 > 78.00	4.173	4.184	-0.011	1.201	1401468	1.27		102	1950	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.173	4.196	-0.023	1.000	112506	0.0994		99.4	415	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.250	4.273	-0.023	1.223	241895	1.27		102	595	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.003	19467	0.1088		109	50.4	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.353	4.365	-0.012	1.148	43231	0.0960	Target=2.77	99.6	334	
599.00 > 99.00	4.353	4.365	-0.012	1.148	16016		2.70(1.38-4.15)	99.6	249	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.376	4.399	-0.023	1.260	1427912	1.29		103	1318	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.387	4.399	-0.012	1.263	243668	1.29		103	875	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.387	4.399	-0.012	1.003	123513	0.1037	Target=9.37	104	89.4	
563.00 > 169.00	4.376	4.399	-0.023	1.000	14694		8.41(4.68-14.05)	104	139	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.399	4.410	-0.011	1.003	17699	0.0994		99.4	134	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.478	4.491	-0.013	1.181	205787	0.0995		106	990	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.612	4.633	-0.021	0.998	129219	0.1066	Target=7.06	107	18.8	
613.00 > 169.00	4.612	4.633	-0.021	0.998	18764		6.89(3.53-10.59)	107	200	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.622	4.633	-0.011	1.331	1417662	1.31		105	2302	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.633	4.653	-0.020	1.123	13909	0.1007		104	112	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.794	4.803	-0.009	1.264	18179	0.0993	Target=0.51	103	336	
699.00 > 99.00	4.794	4.803	-0.009	1.264	36618		0.50(0.25-0.76)	103	942	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.837	4.848	-0.011	1.046	115701	0.1042	Target=5.01	104	18.5	M
663.00 > 169.00	4.837	4.848	-0.011	1.046	21777		5.31(2.50-7.51)	104	218	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.022	5.041	-0.019	1.000	14854	0.1019	Target=0.95	102	232	
713.00 > 219.00	5.022	5.041	-0.019	1.000	16236		0.91(0.47-1.42)	102	225	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.022	5.041	-0.019	1.446	1171213	1.27		102	2031	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	5.377	5.388	-0.011	1.000	118100	0.1001	Target=4.99	100	27.5	
813.00 > 169.00	5.377	5.388	-0.011	1.000	23391		5.05(2.49-7.48)	100	303	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.377	5.388	-0.011	1.548	1307906	1.29		103	4072	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.731	-0.009	1.064	79605	0.1053	Target=5.05	105	24.1	
913.00 > 169.00	5.722	5.731	-0.009	1.064	15705		5.07(2.53-7.58)	105	224	

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\20220914-52438.b\PA220914ICAL06.d

Injection Date: 14-Sep-2022 10:41:50

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

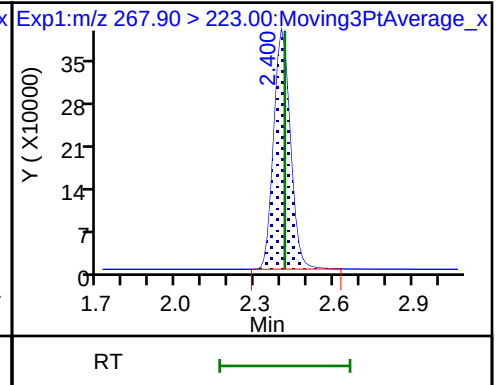
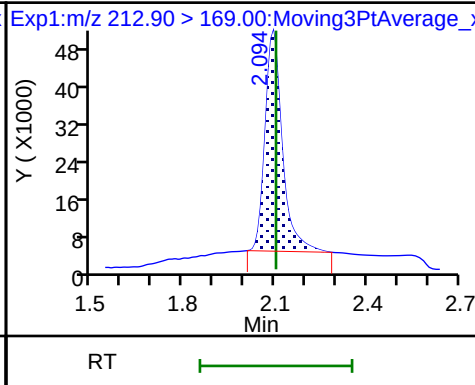
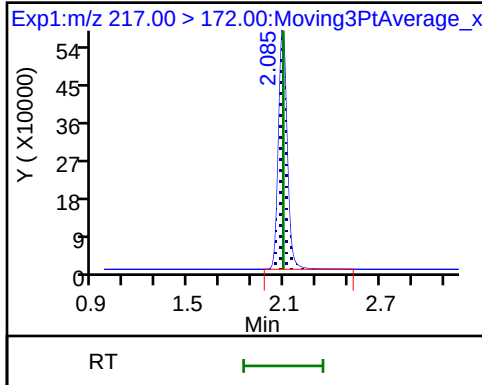
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

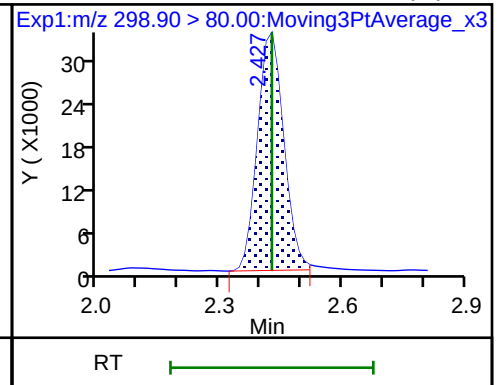
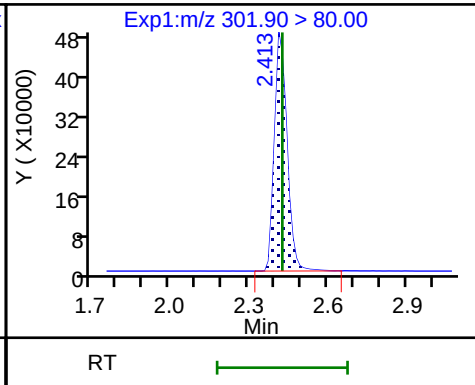
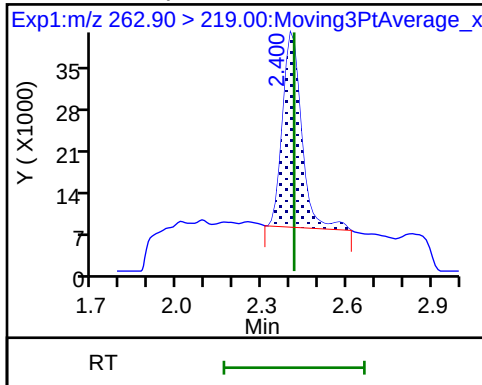
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

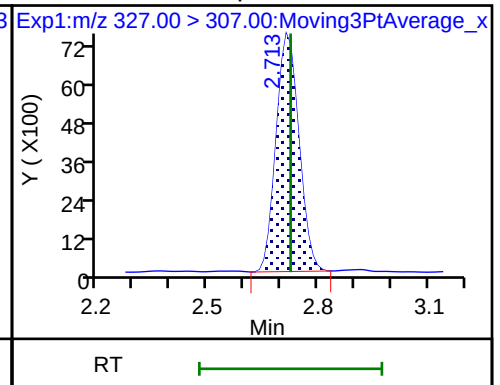
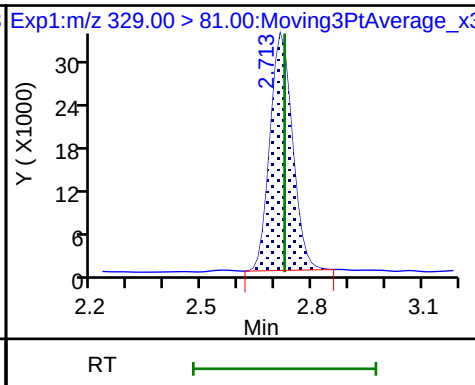
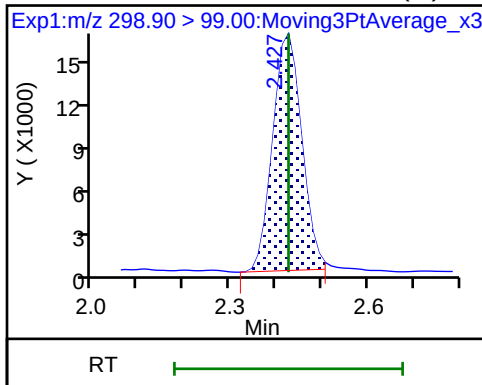
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS

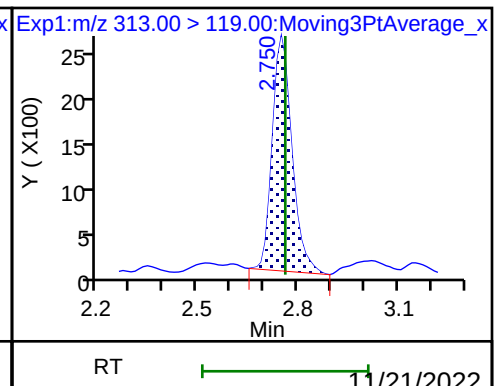
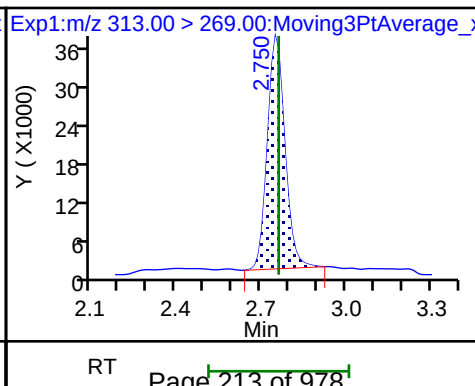
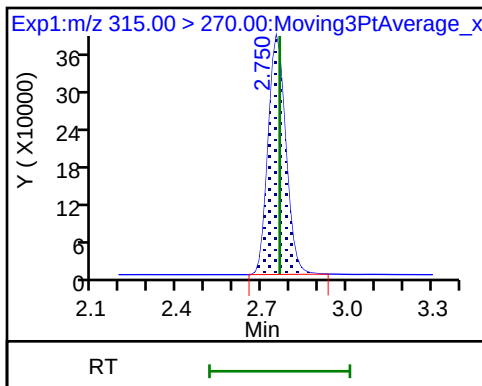
61 1H,1H,2H,2H-perfluorohexanesulfo

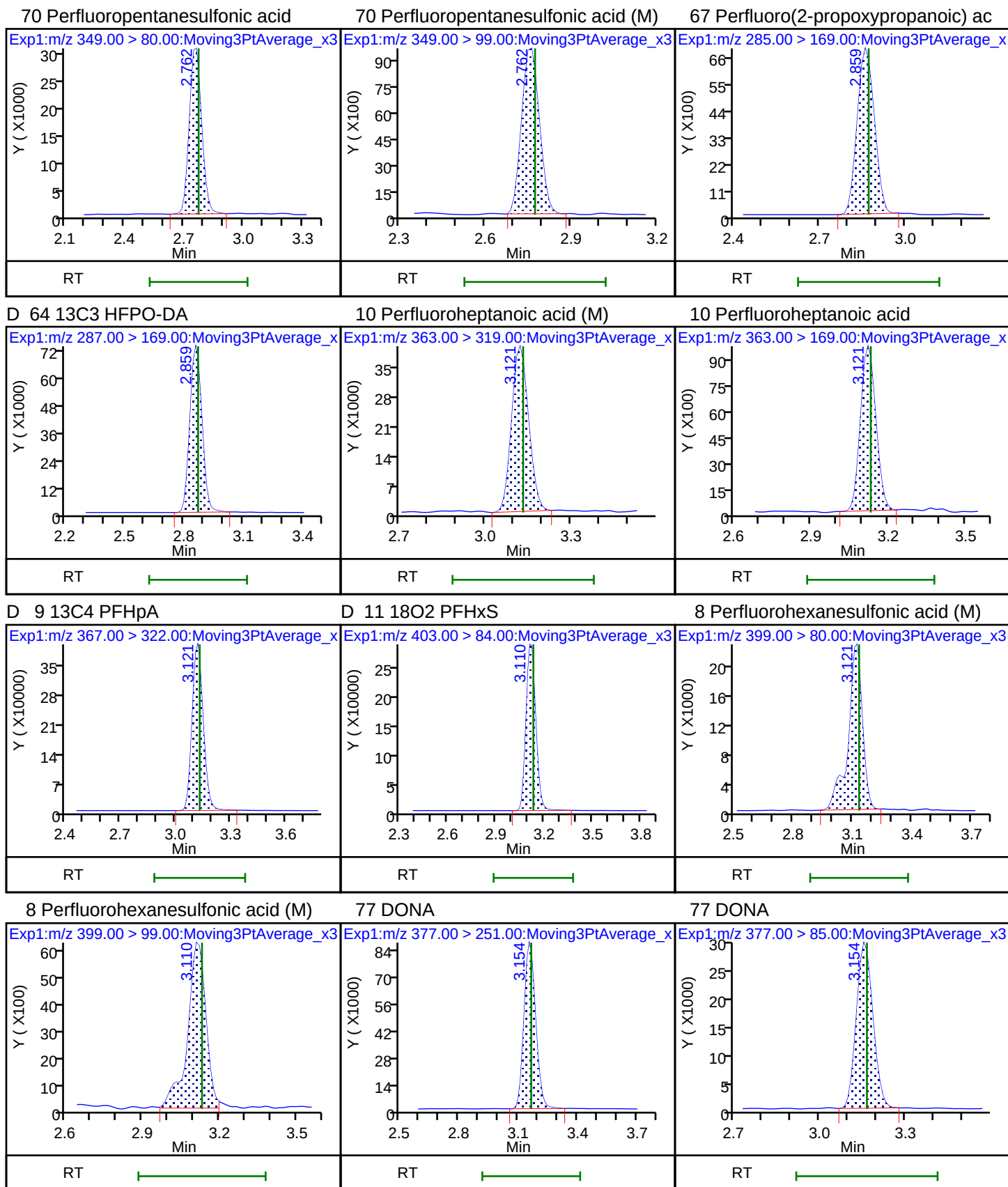


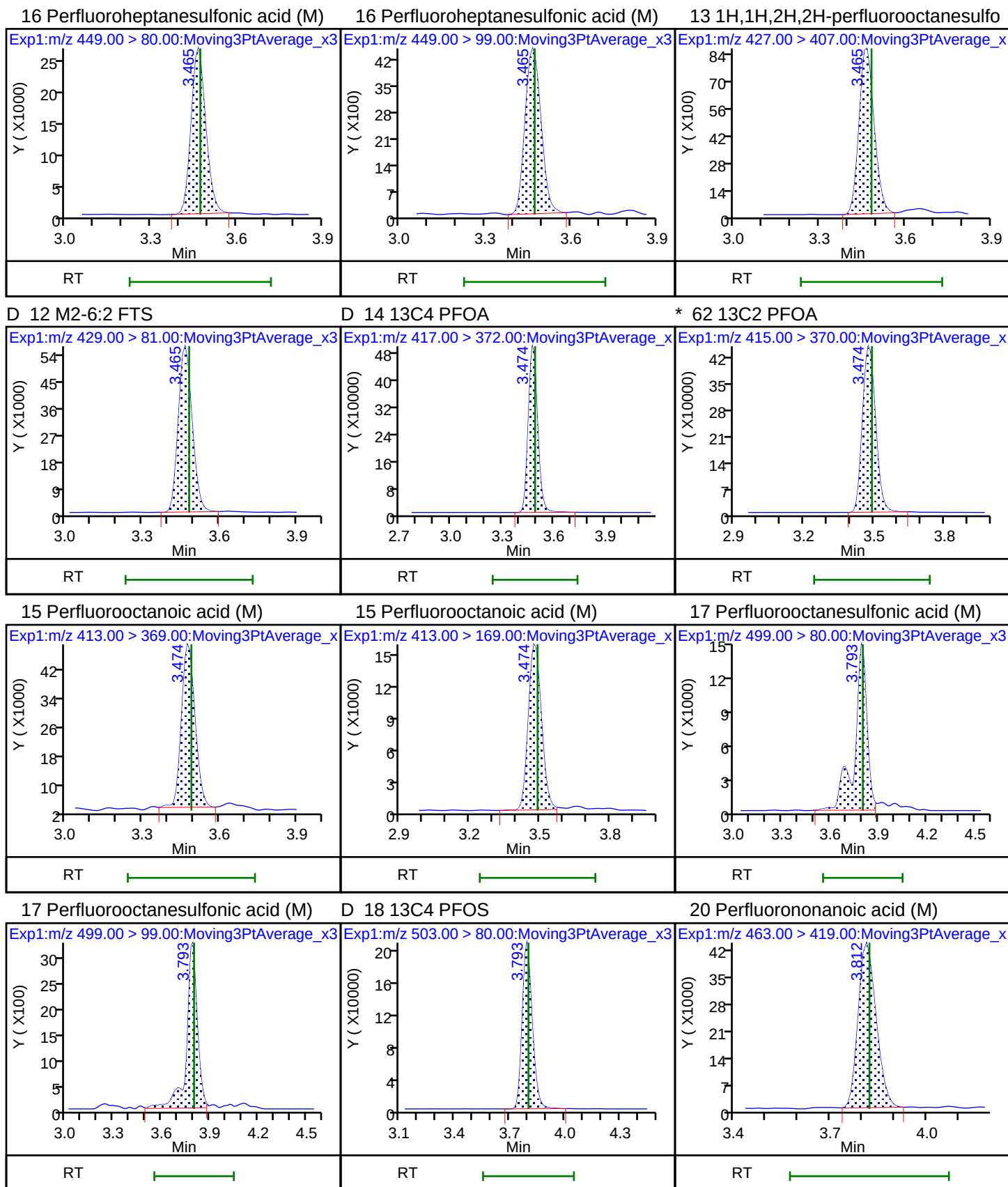
D 7 13C2 PFHxA

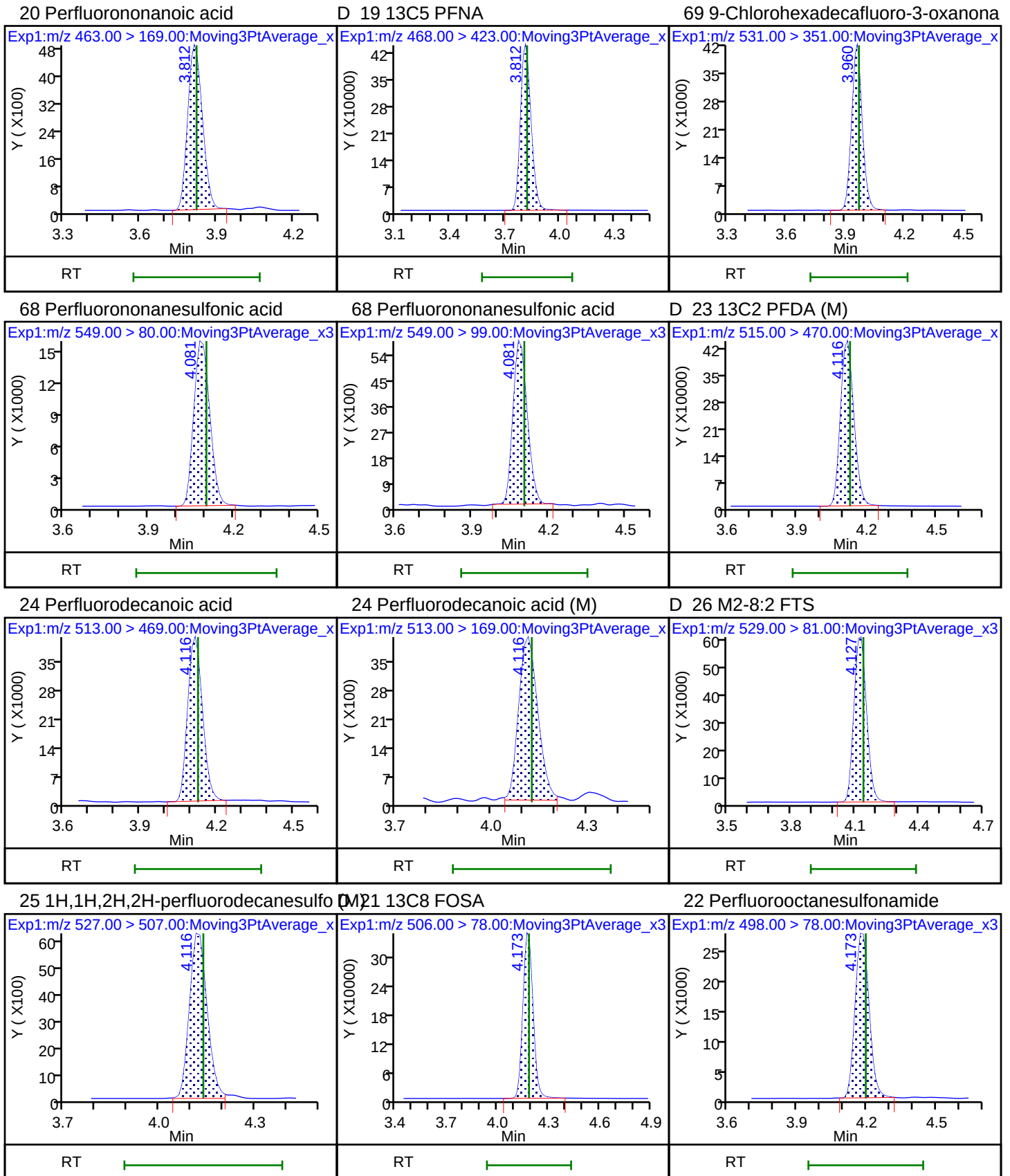
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





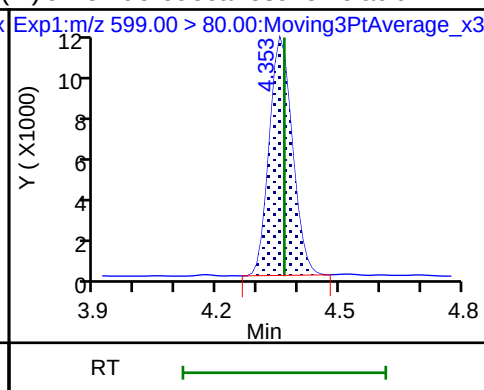
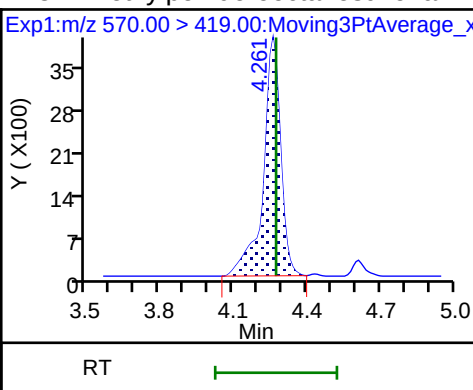
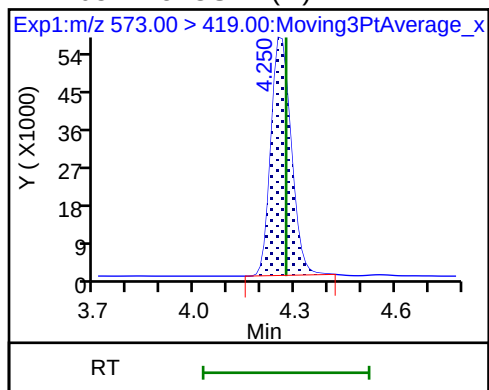




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

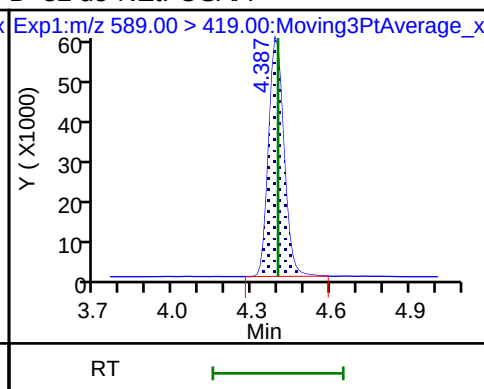
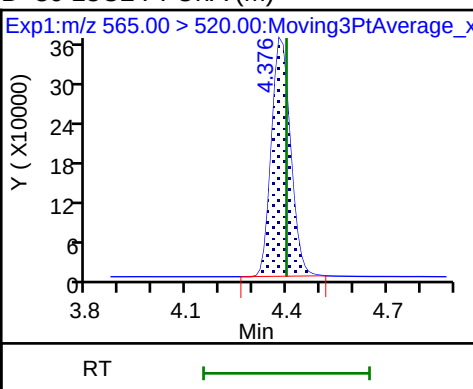
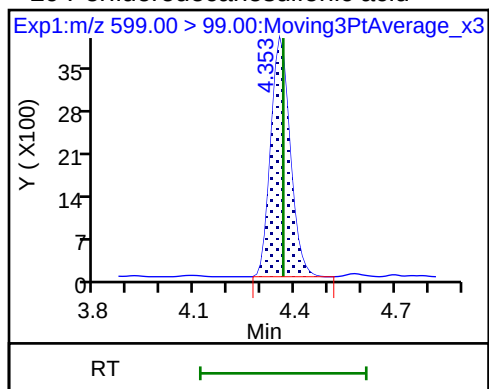
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA (M)

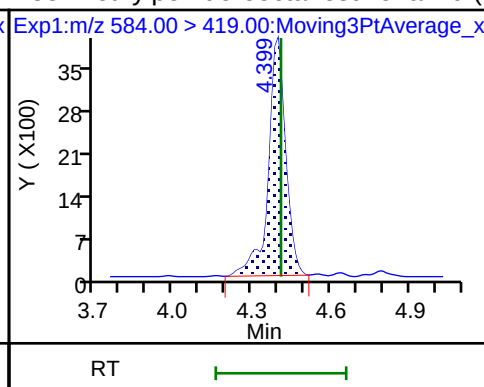
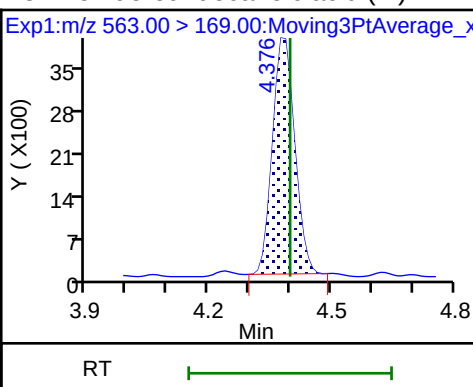
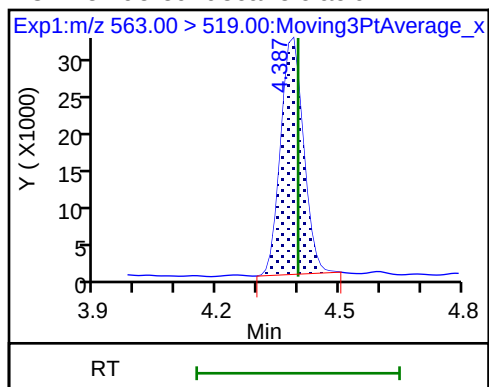
D 32 d5-NEtFOSAA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

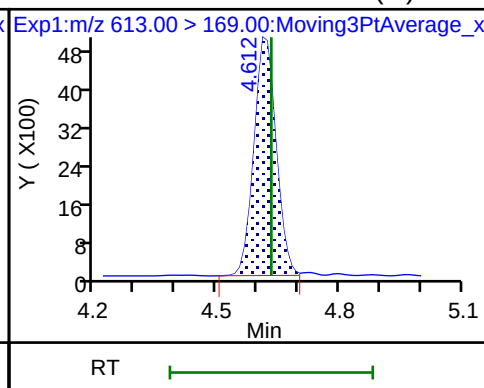
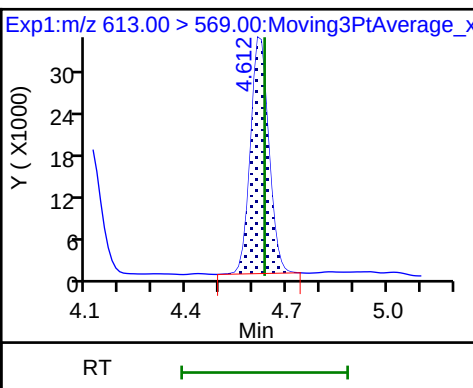
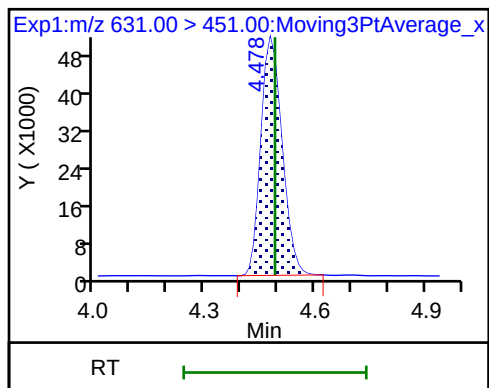
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

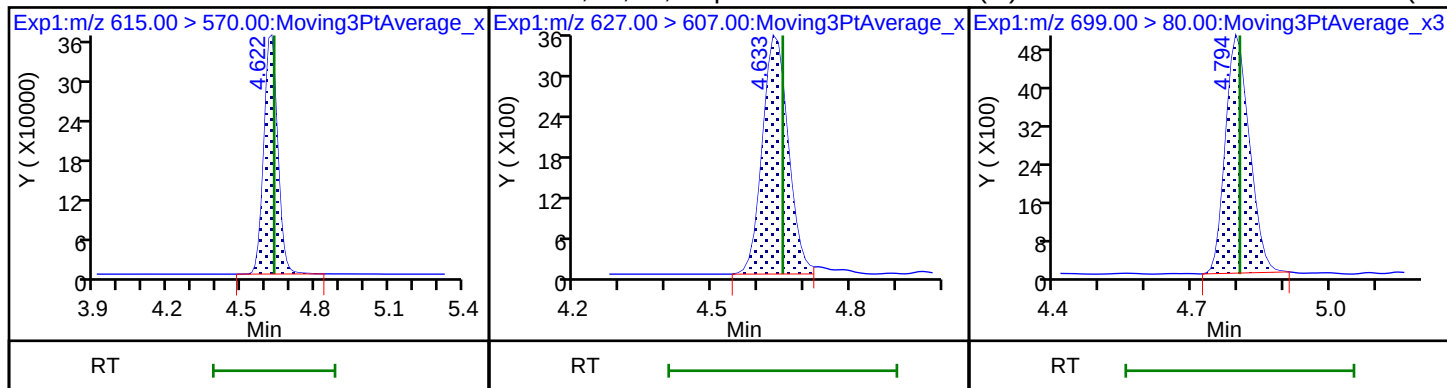
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

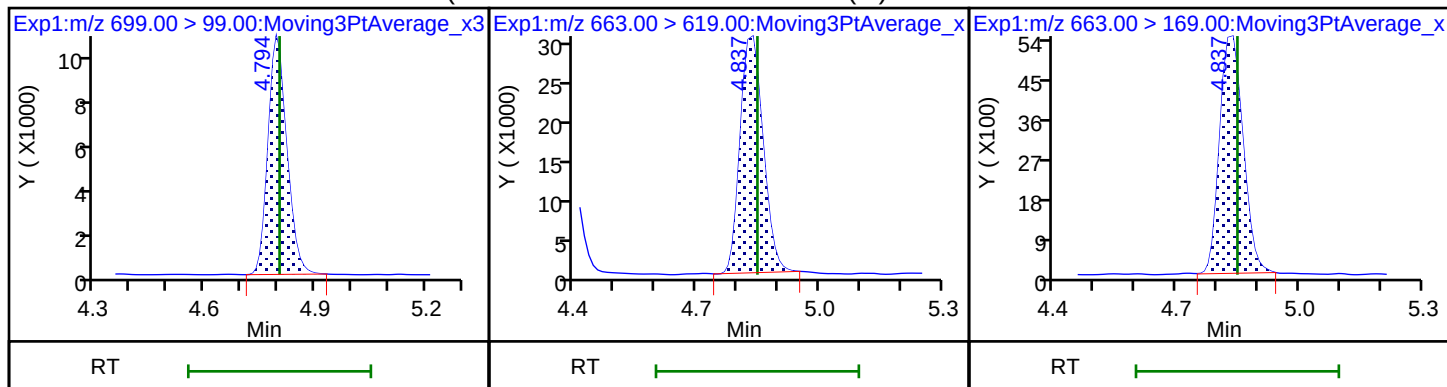
74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

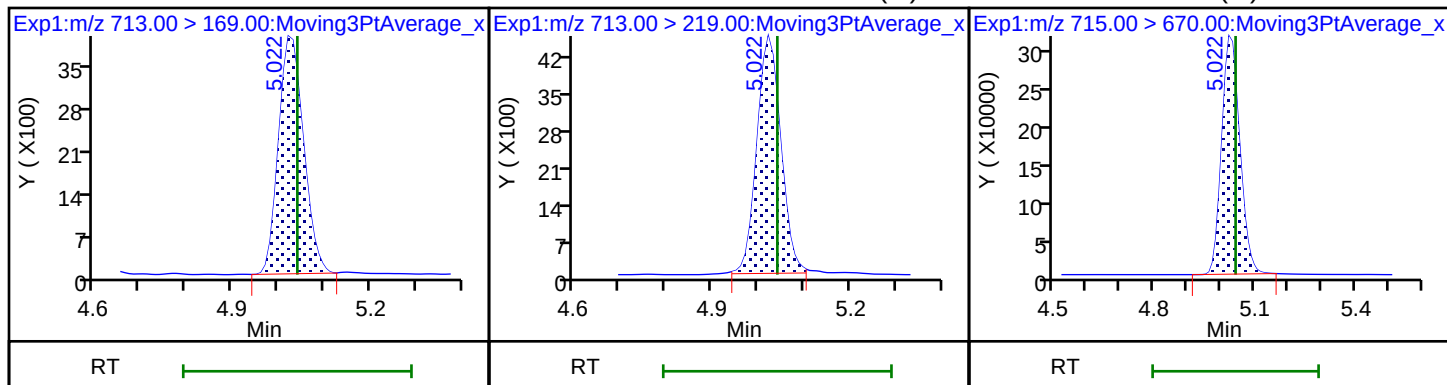
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

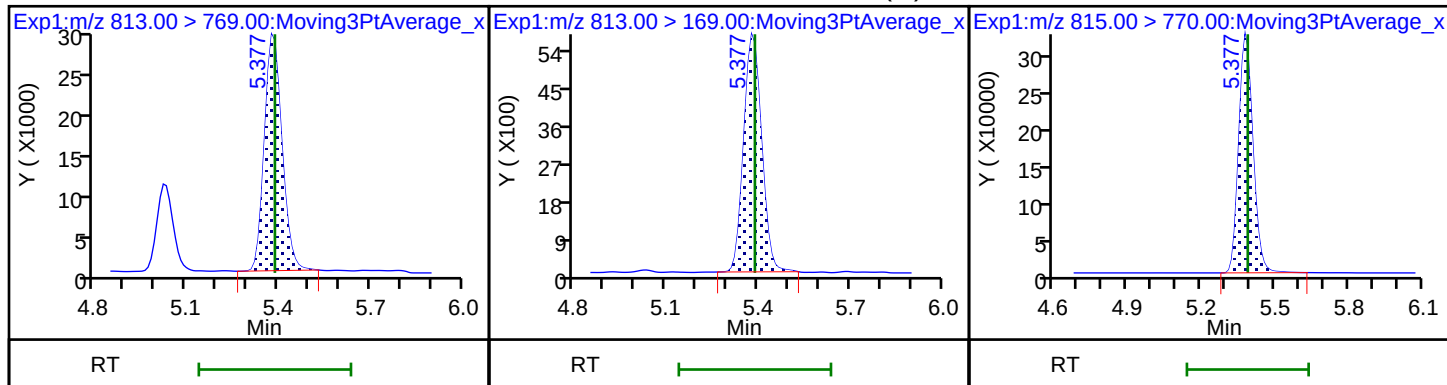
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

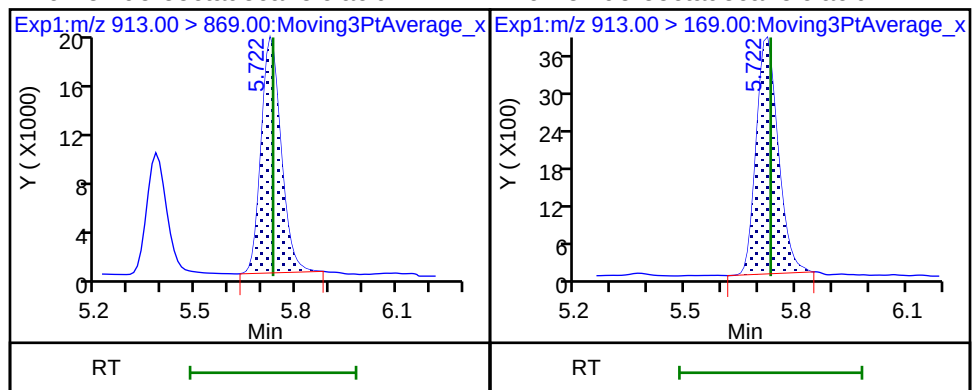
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

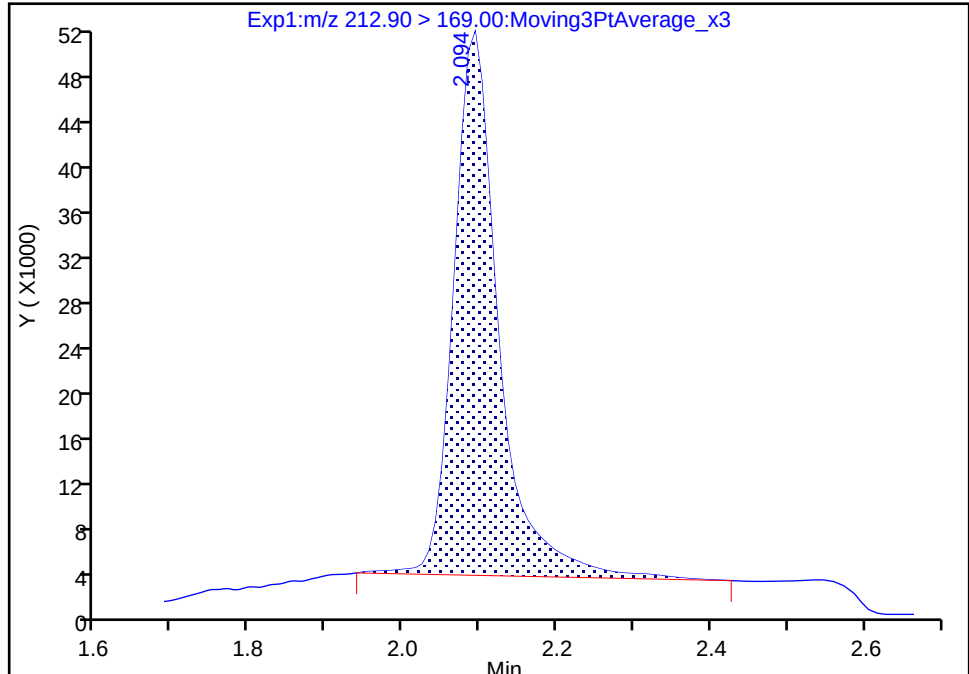
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

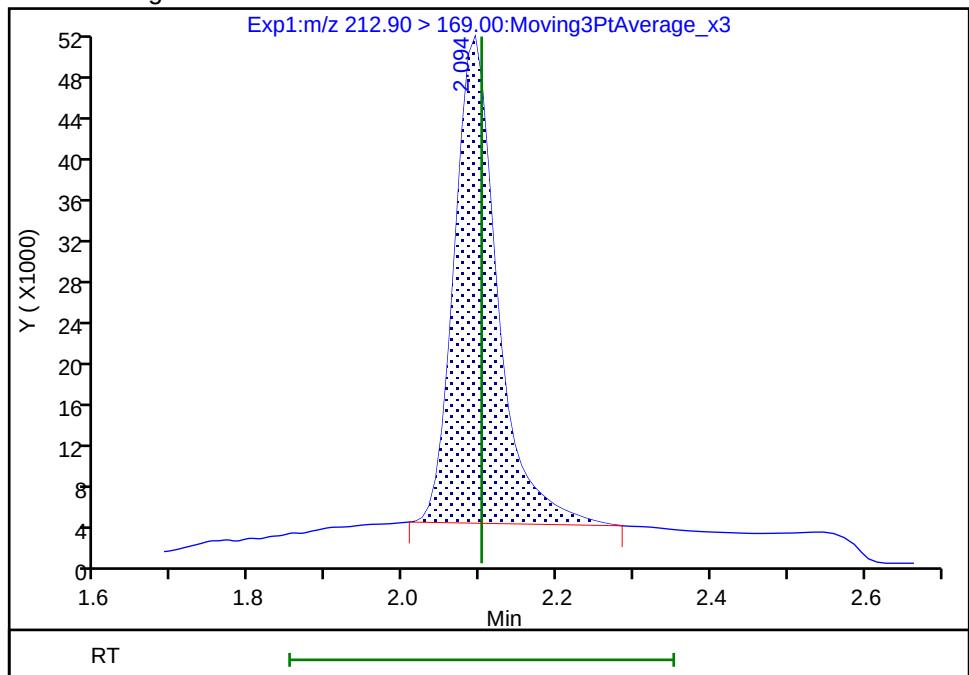
RT: 2.09
Area: 197557
Amount: 0.102745
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 186860
Amount: 0.108114
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 220 of 978

11/21/2022
4:10 PM

Eurofins Burlington

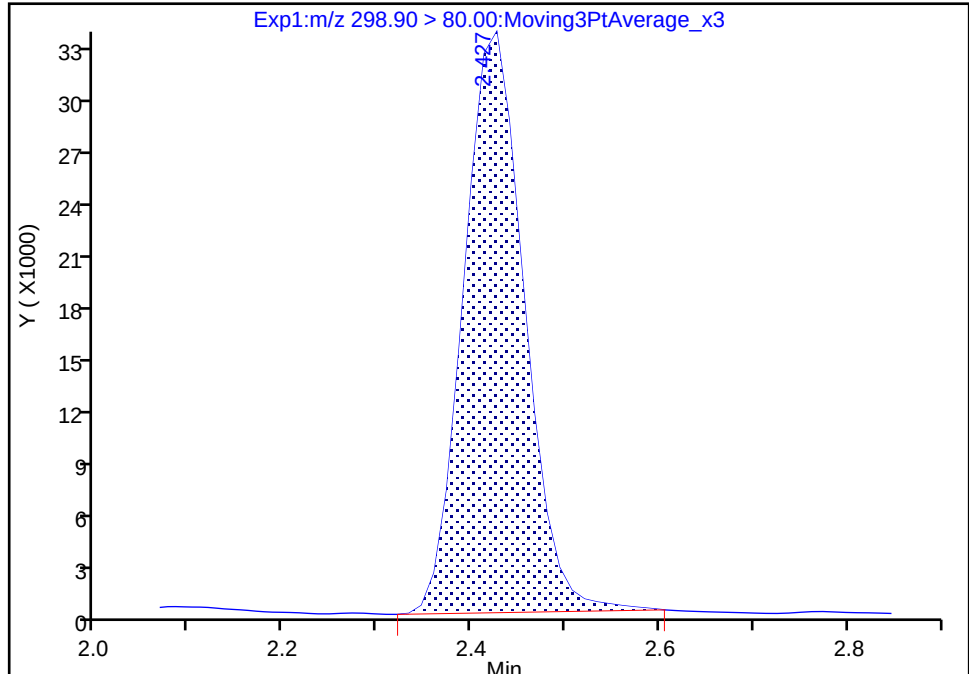
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

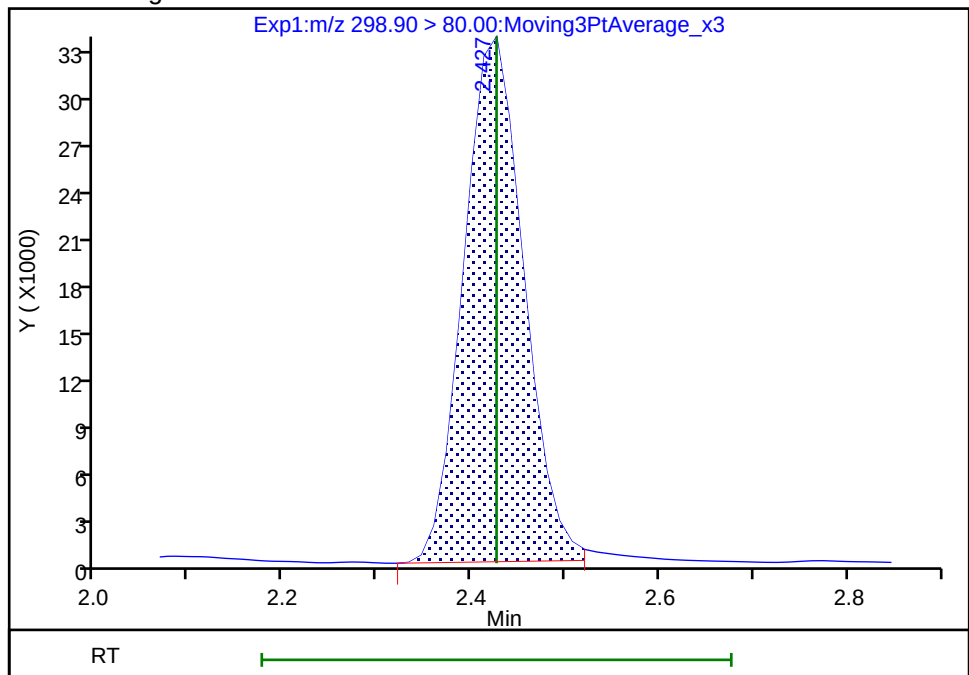
RT: 2.43
Area: 147206
Amount: 0.089557
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 145722
Amount: 0.091862
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 221 of 978

11/21/2022
4:10 PM

Eurofins Burlington

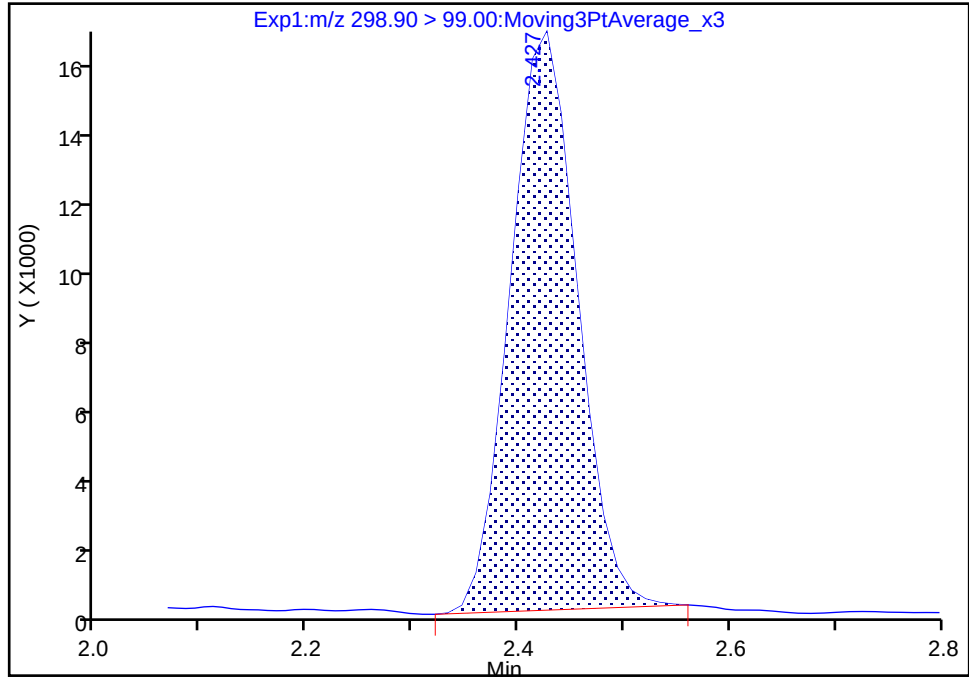
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

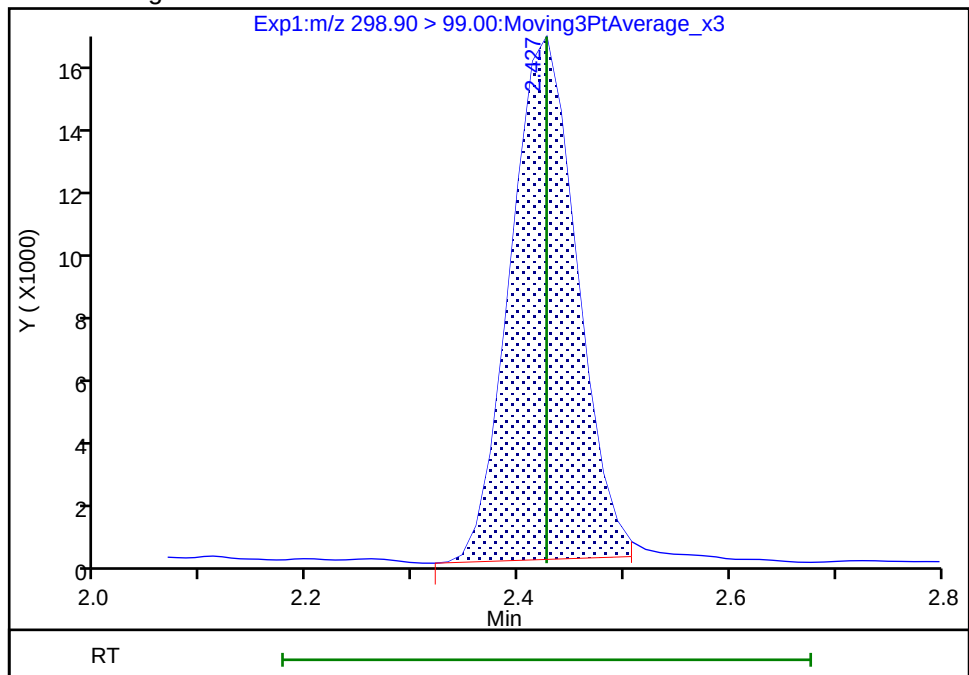
RT: 2.43
Area: 69989
Amount: 0.089557
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 69533
Amount: 0.091862
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 222 of 97811/21/2022
4:10 PM

Eurofins Burlington

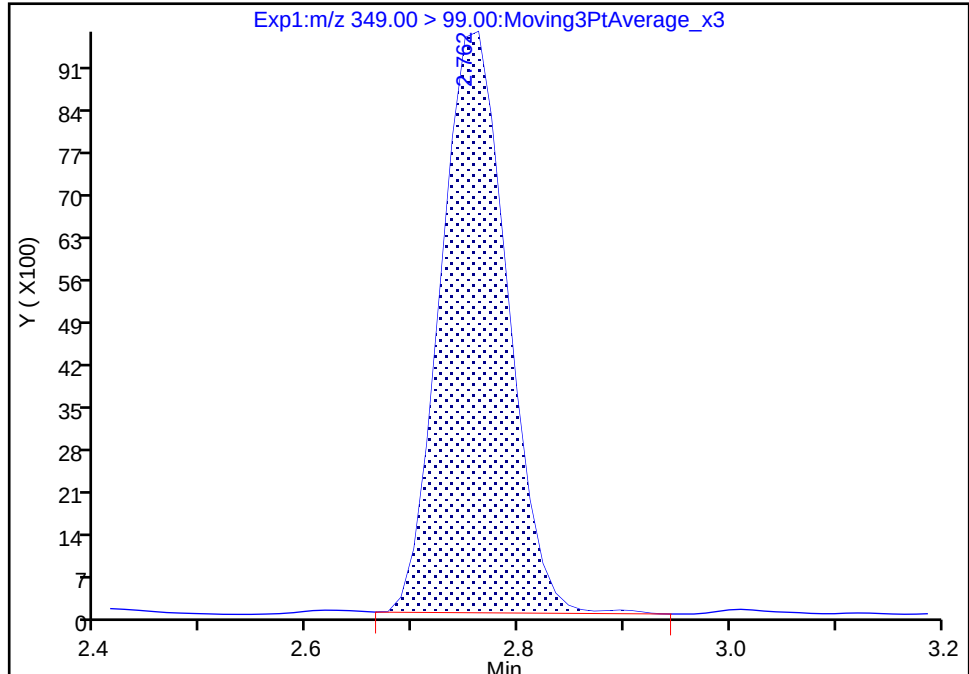
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

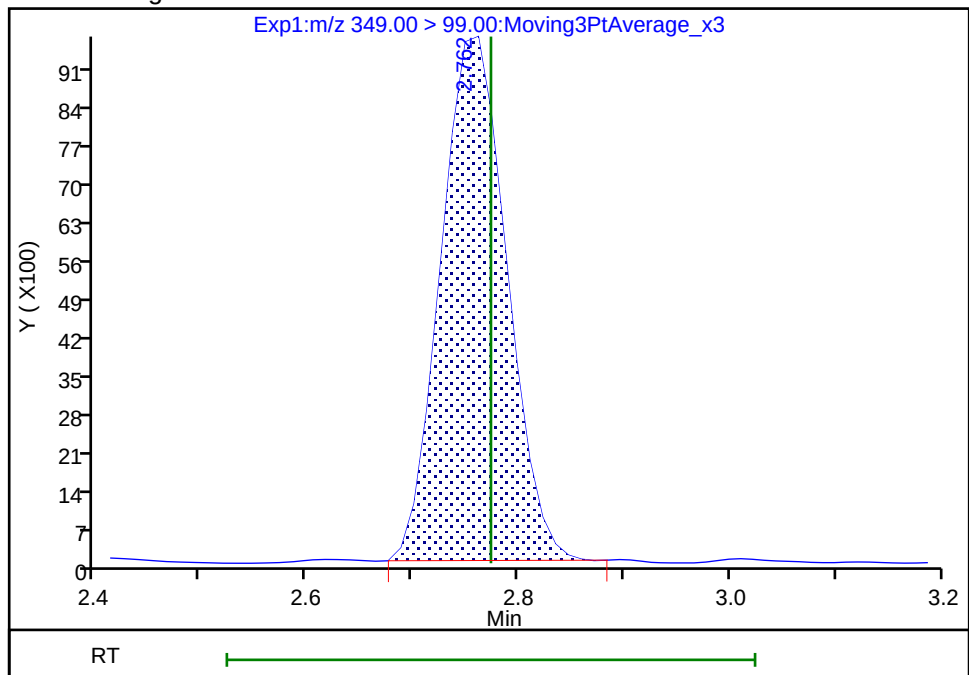
RT: 2.76
Area: 41775
Amount: 0.089720
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 41340
Amount: 0.095543
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 223 of 978

11/21/2022
4:10 PM

Eurofins Burlington

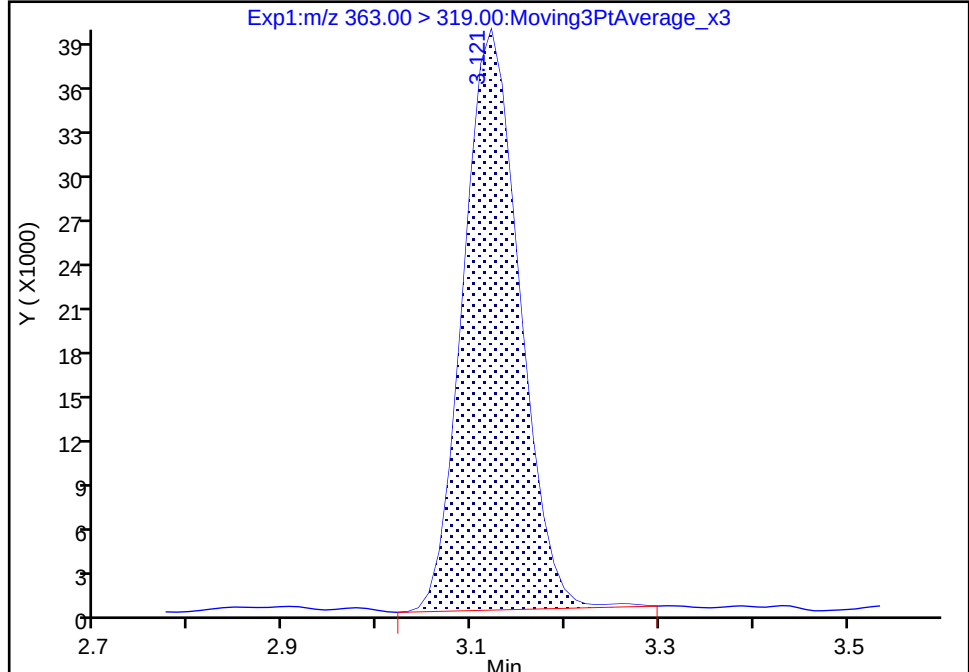
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

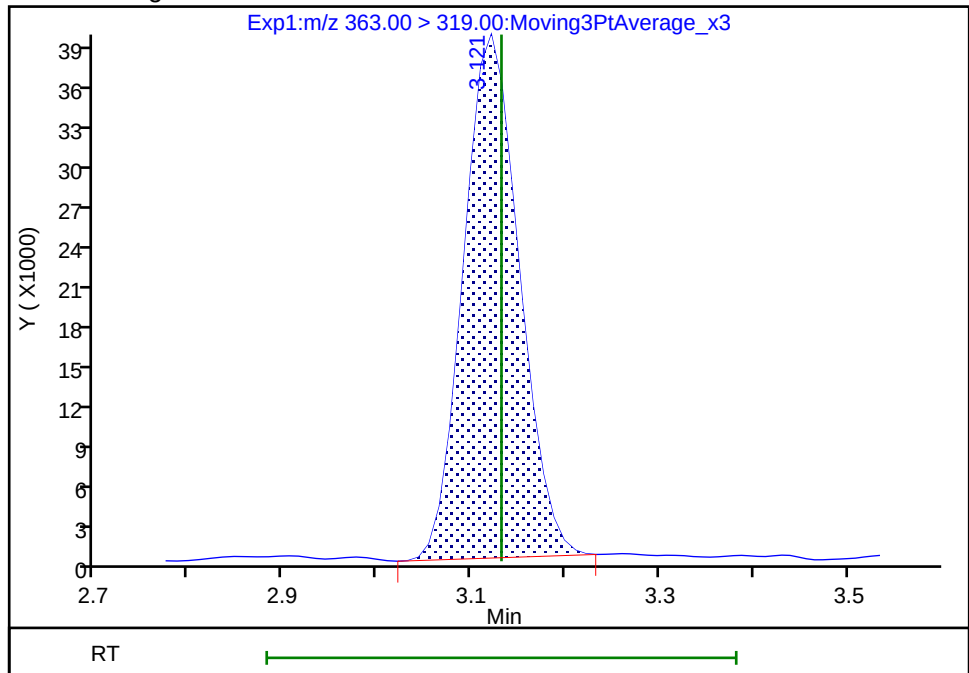
RT: 3.12
Area: 162209
Amount: 0.099367
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 160516
Amount: 0.109186
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 224 of 978

11/21/2022
4:10 PM

Eurofins Burlington

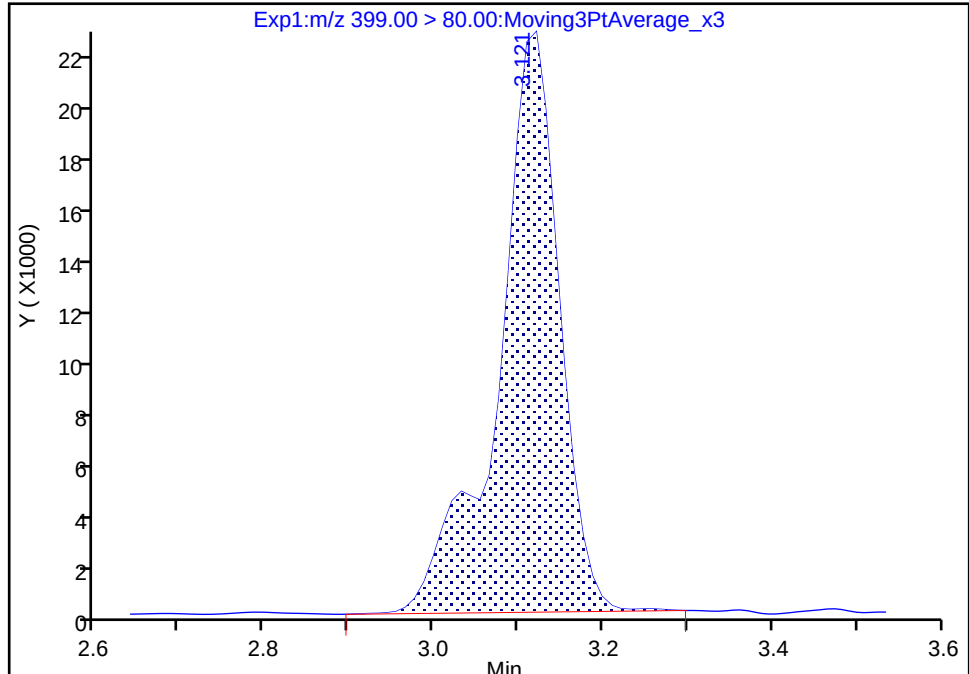
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

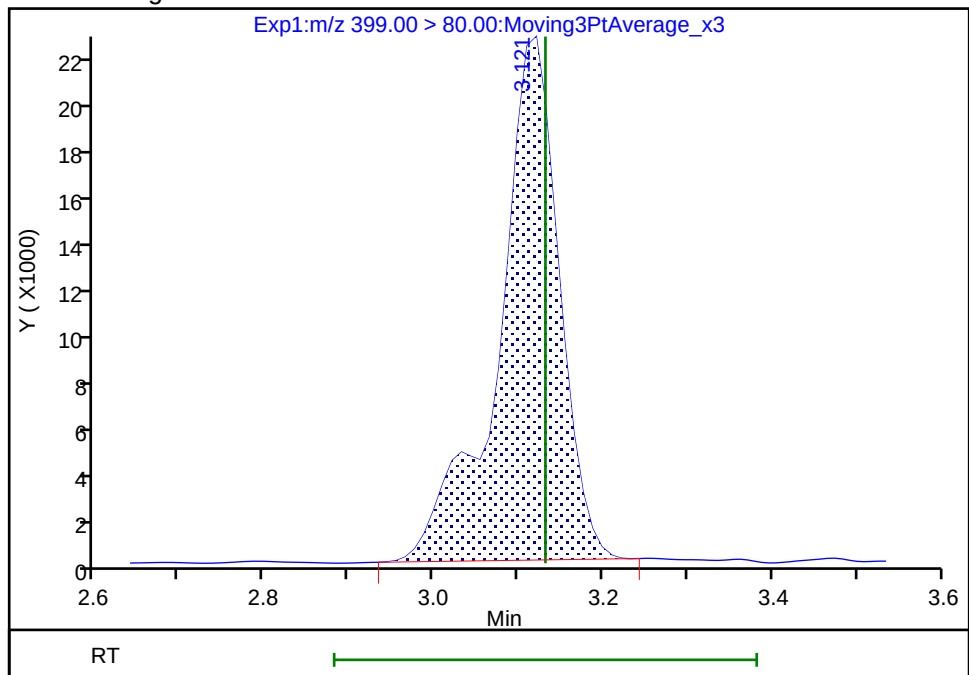
RT: 3.12
Area: 110313
Amount: 0.086686
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 109266
Amount: 0.094446
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 225 of 978

11/21/2022
4:10 PM

Eurofins Burlington

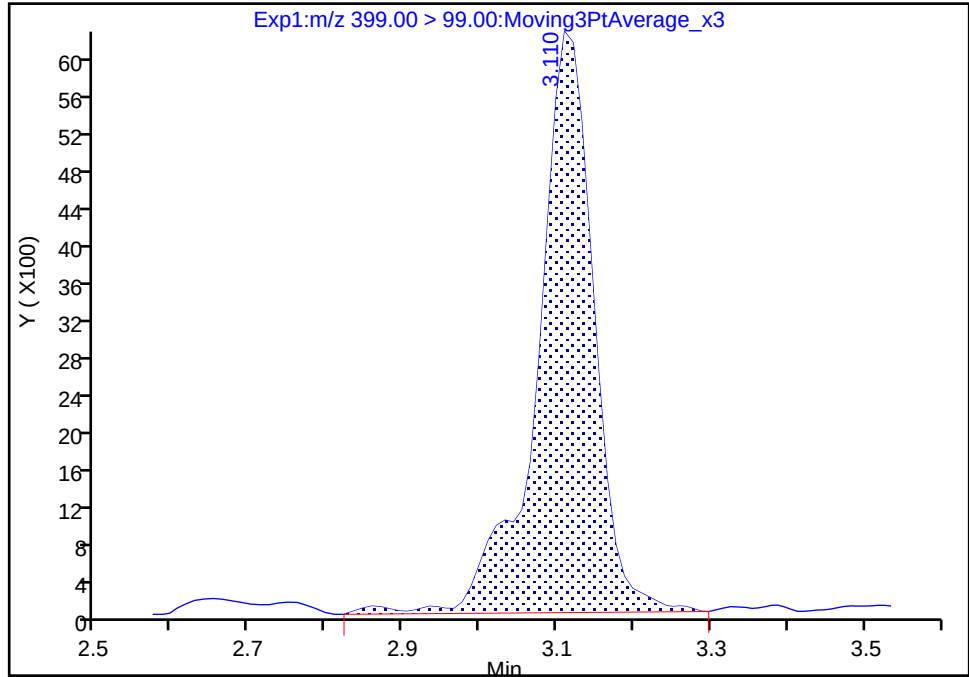
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

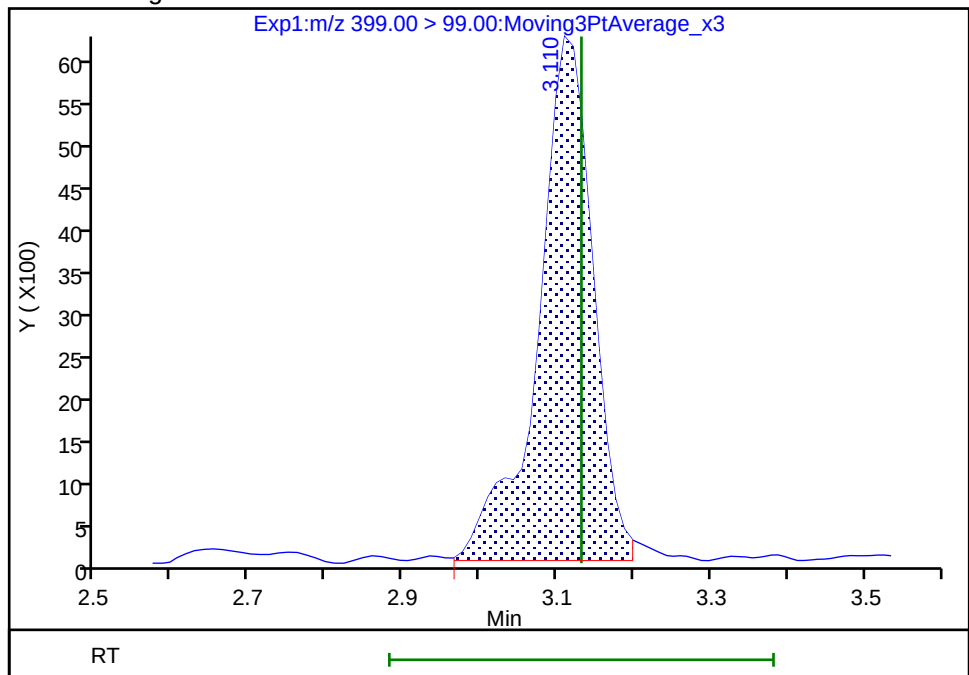
RT: 3.11
Area: 31866
Amount: 0.086686
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 30670
Amount: 0.094446
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:51:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 226 of 97811/21/2022
4:10 PM

Eurofins Burlington

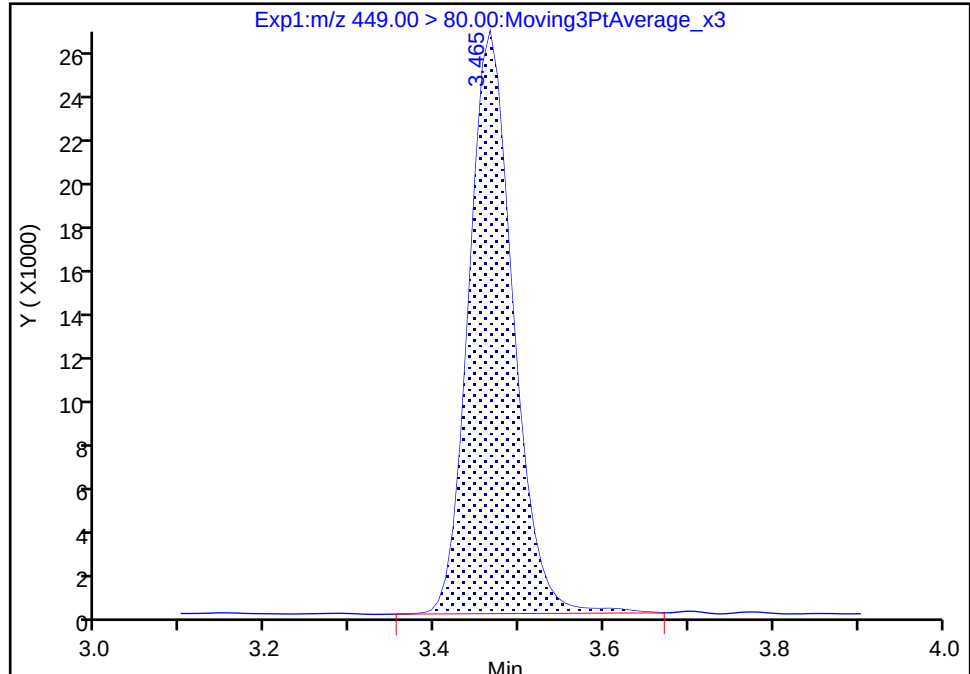
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

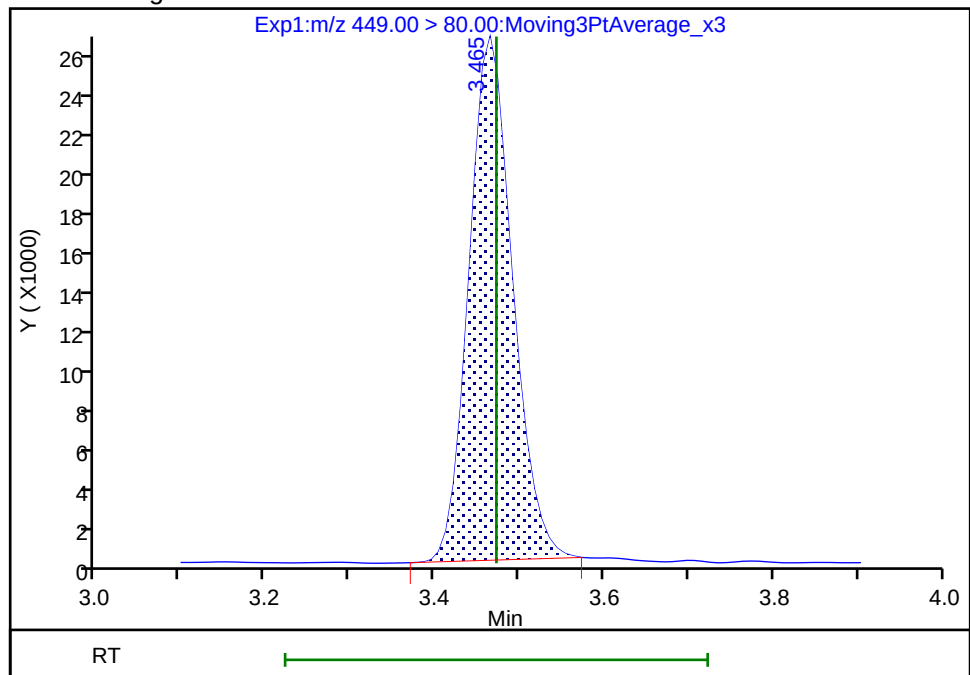
RT: 3.47
Area: 95055
Amount: 0.097227
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 92730
Amount: 0.100884
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 227 of 978

11/21/2022
4:10 PM

Eurofins Burlington

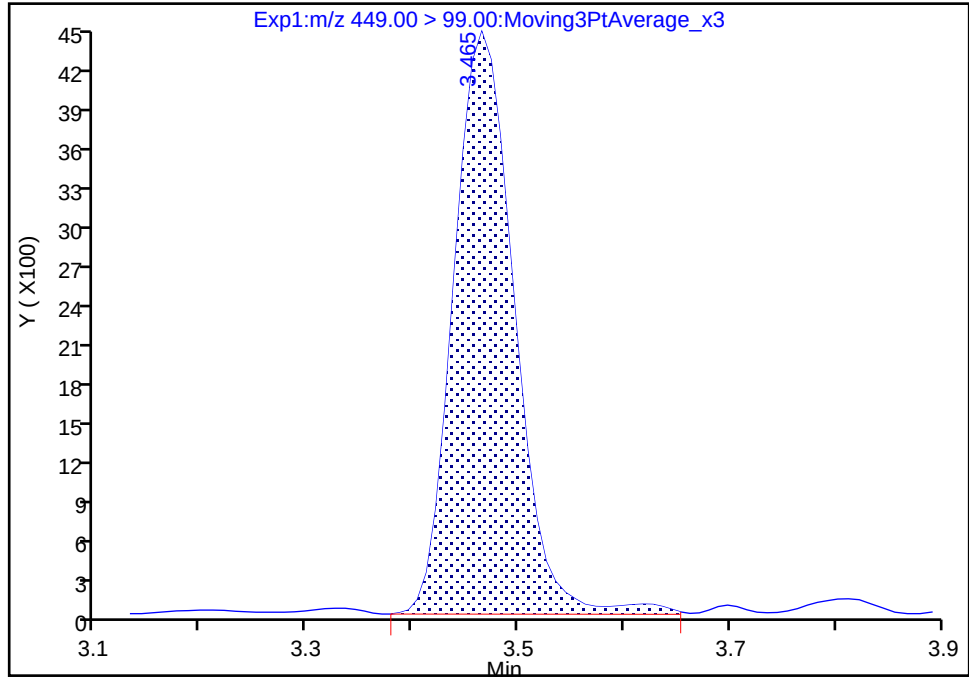
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

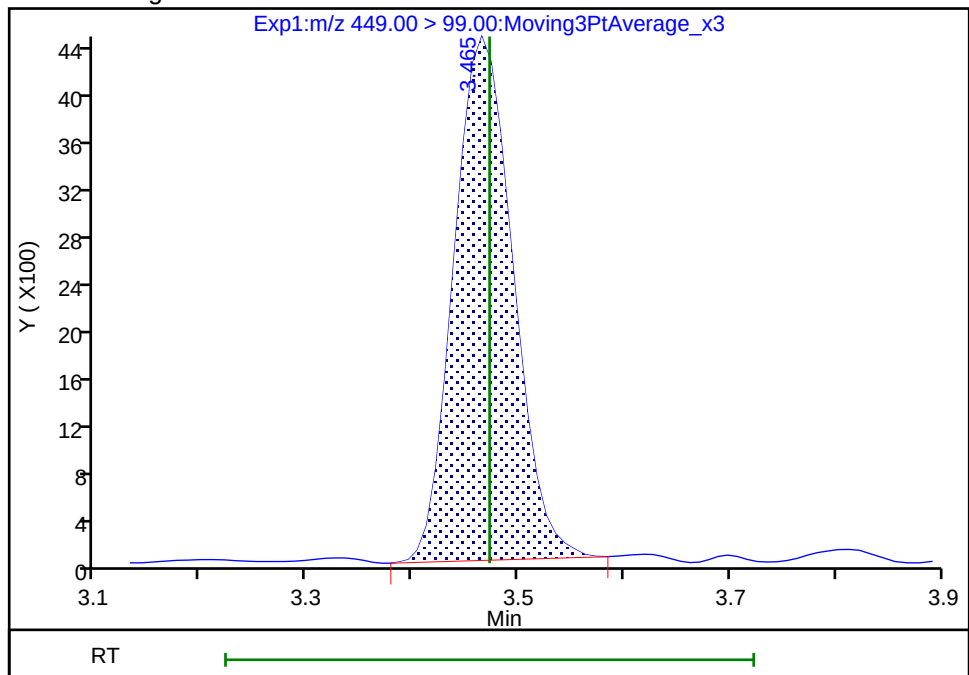
RT: 3.47
Area: 17714
Amount: 0.097227
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 17113
Amount: 0.100884
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 228 of 97811/21/2022
4:10 PM

Eurofins Burlington

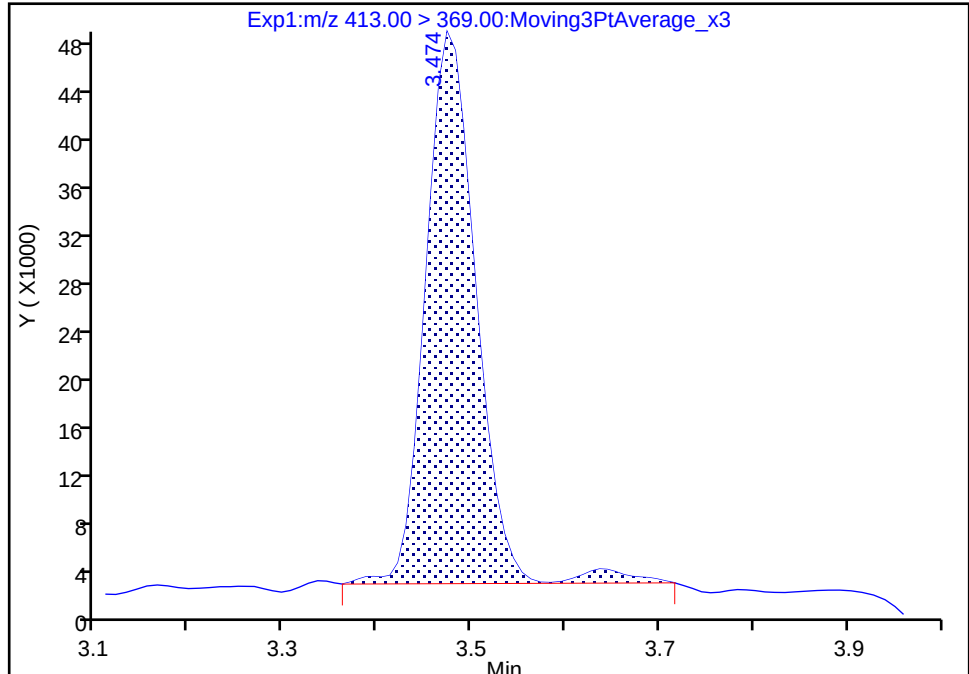
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

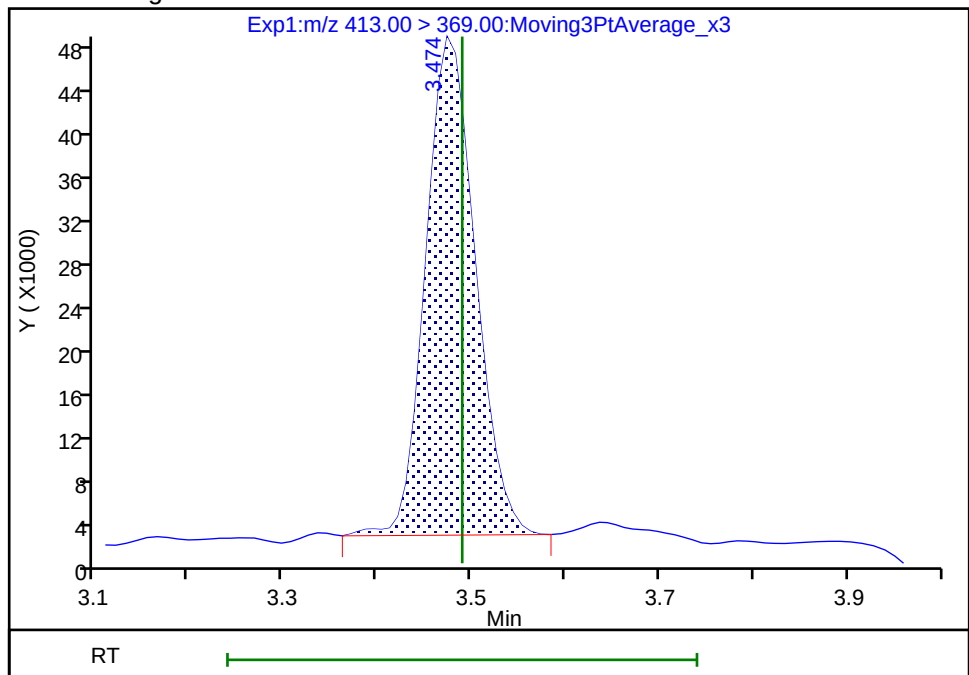
RT: 3.47
Area: 169824
Amount: 0.095087
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 165097
Amount: 0.096888
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 229 of 978

11/21/2022
4:10 PM

Eurofins Burlington

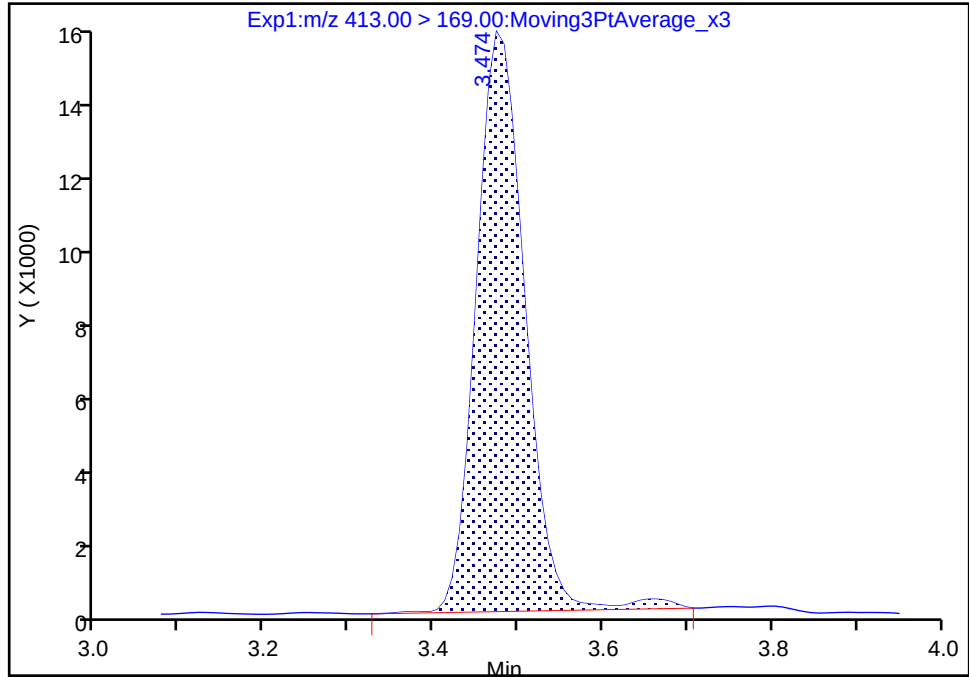
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

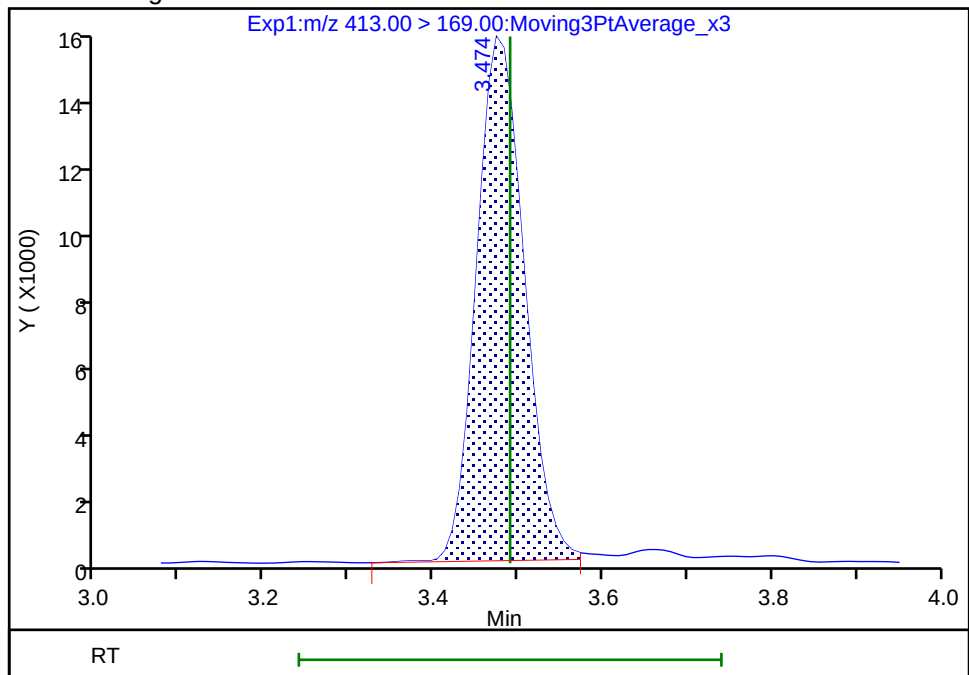
RT: 3.47
Area: 62898
Amount: 0.095087
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 61643
Amount: 0.096888
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 230 of 97811/21/2022
4:10 PM

Eurofins Burlington

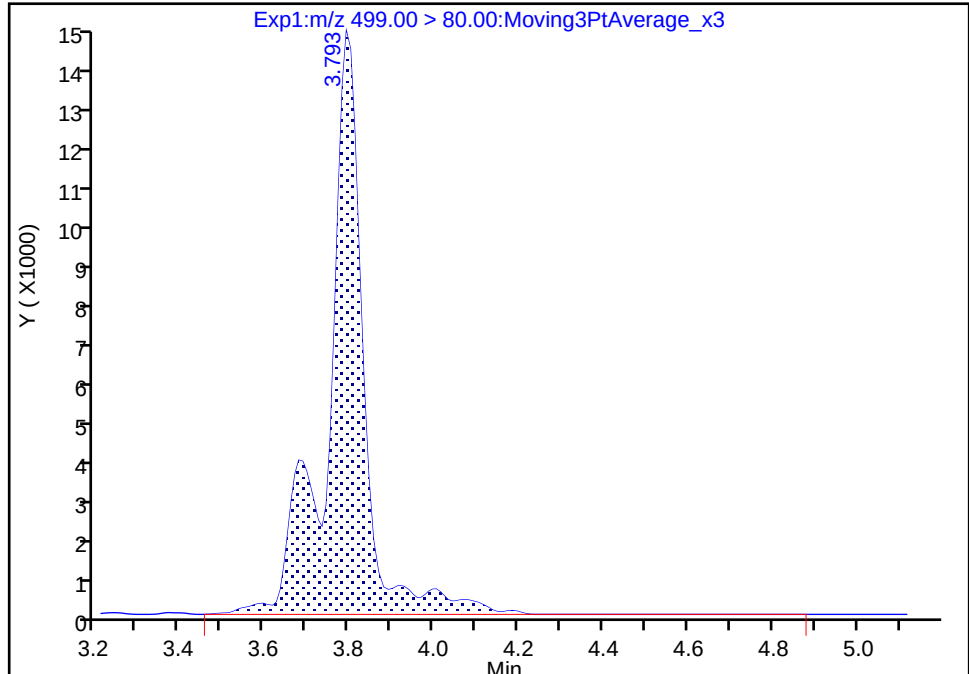
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

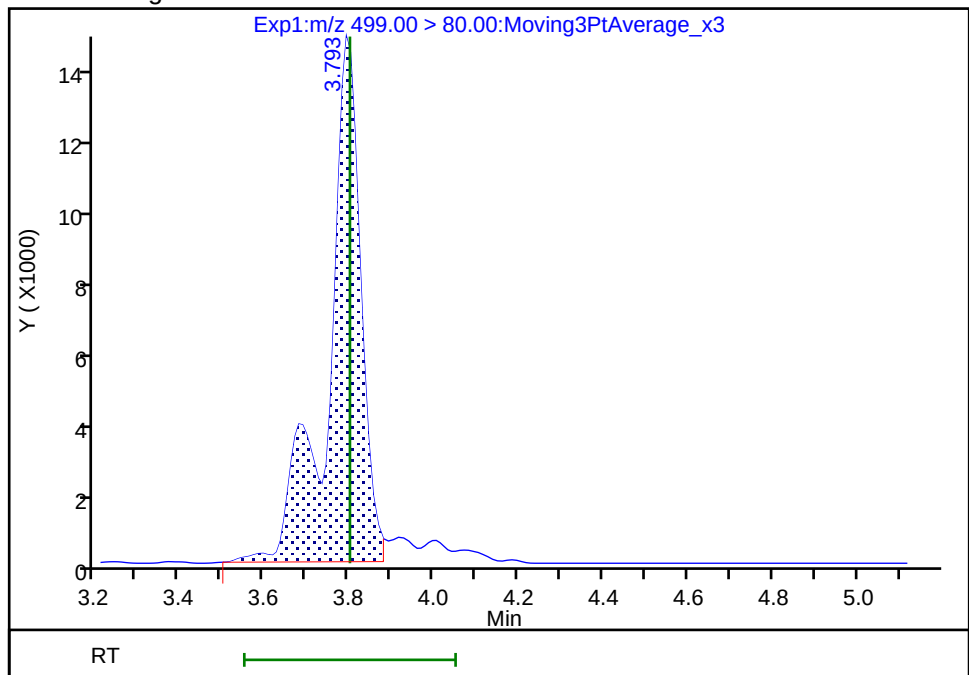
RT: 3.79
Area: 85711
Amount: 0.092800
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 77401
Amount: 0.097653
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:52:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 231 of 978

11/21/2022
4:10 PM

Eurofins Burlington

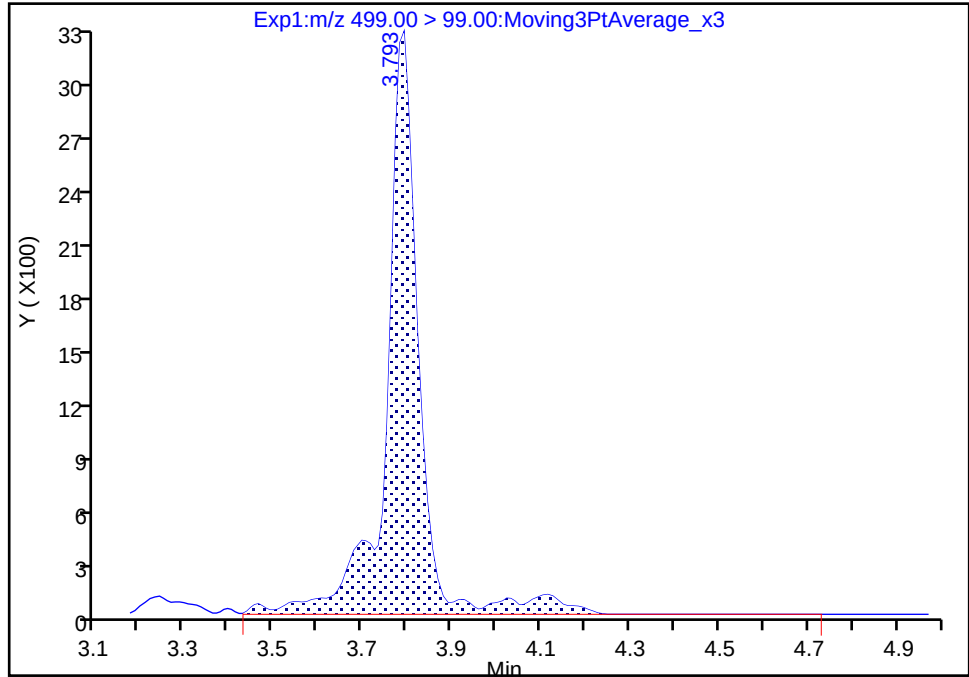
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

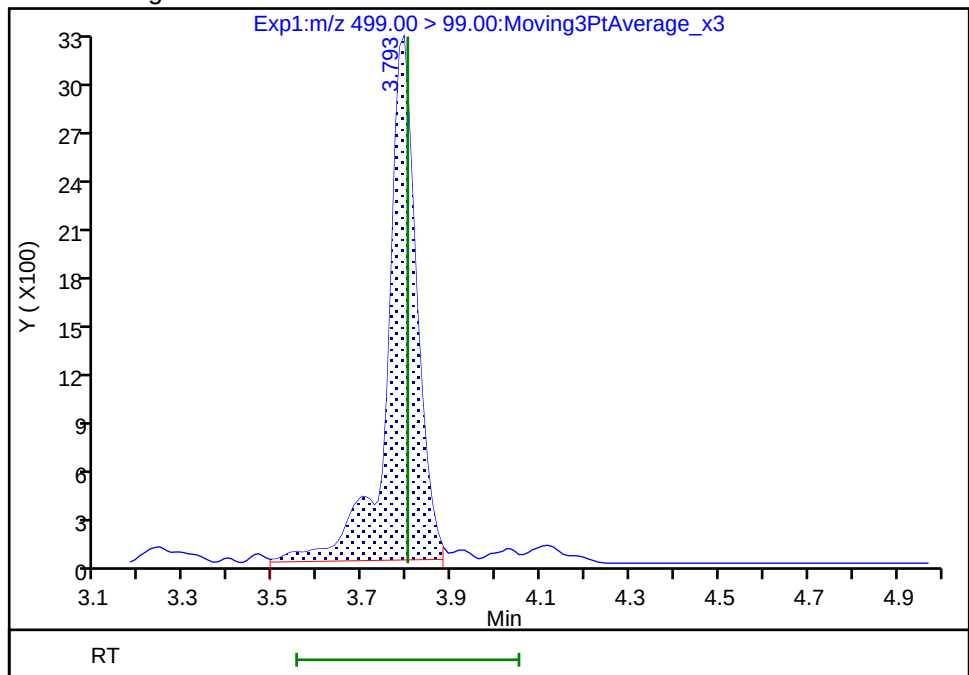
RT: 3.79
Area: 17079
Amount: 0.092800
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 15224
Amount: 0.097653
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:53:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 232 of 97811/21/2022
4:10 PM

Eurofins Burlington

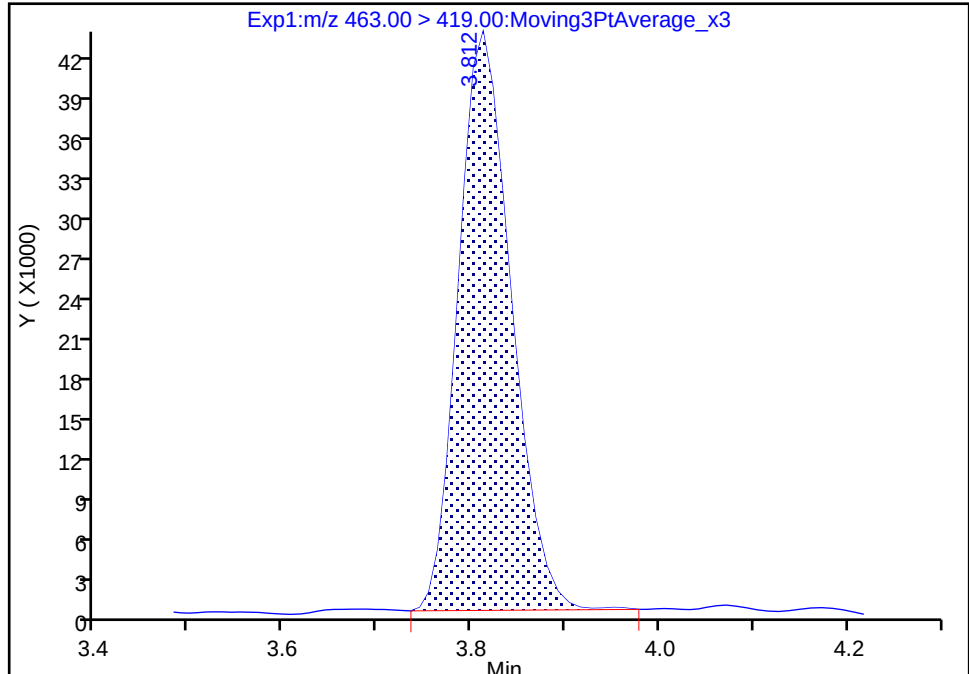
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

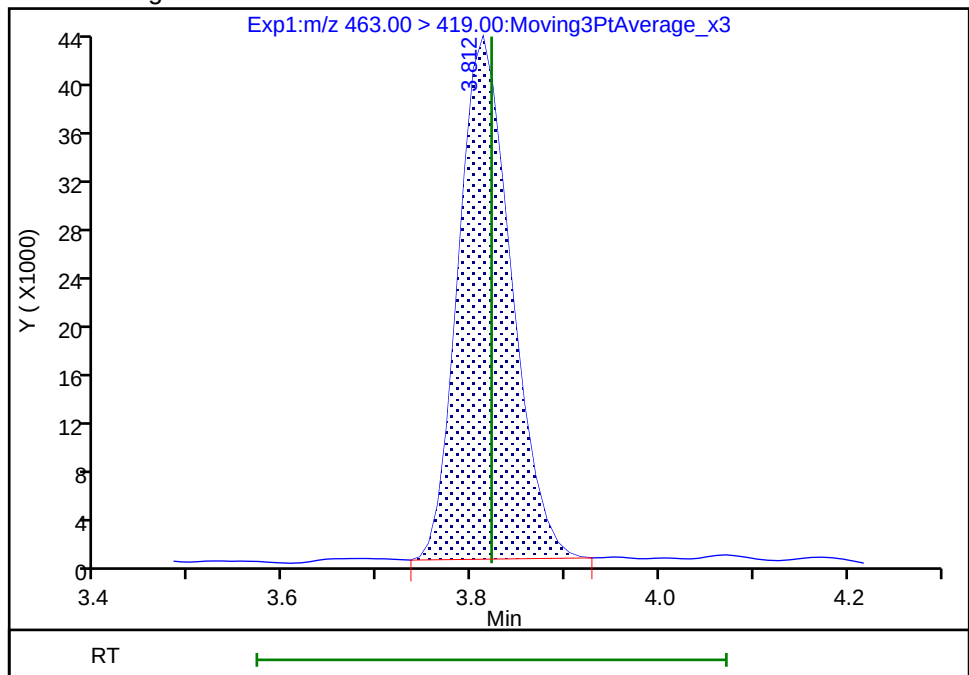
RT: 3.81
Area: 165606
Amount: 0.101817
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 164777
Amount: 0.113099
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:53:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 233 of 978

11/21/2022
4:10 PM

Eurofins Burlington

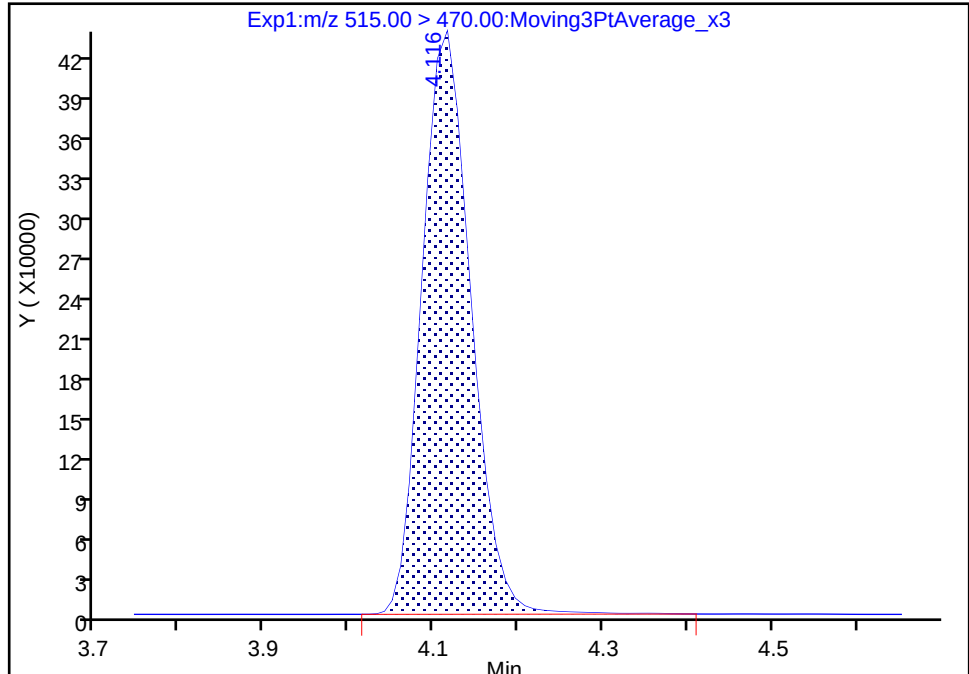
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

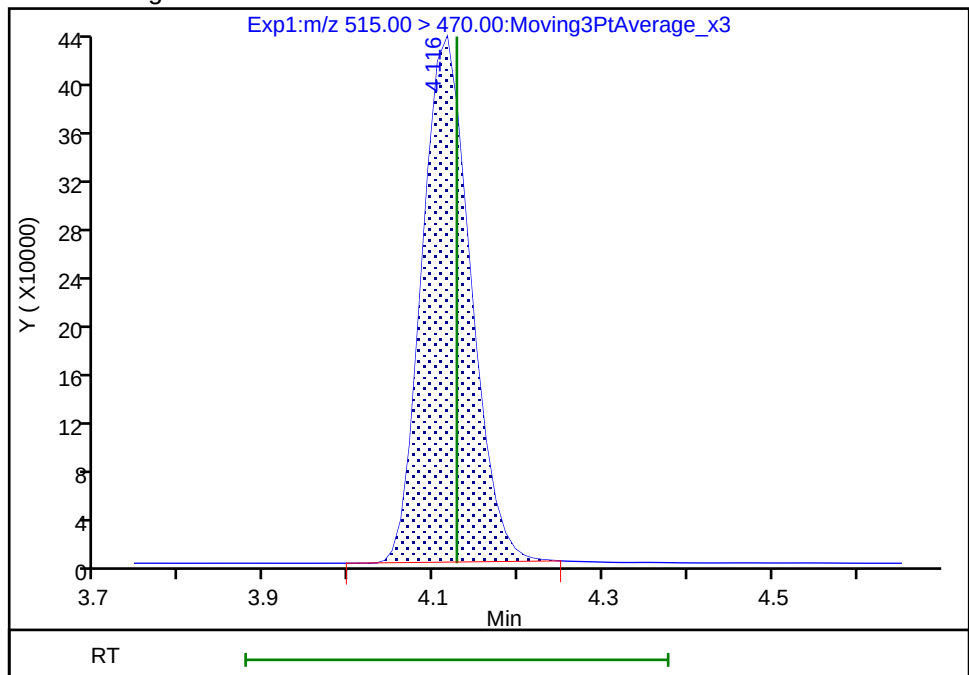
RT: 4.12
Area: 1749395
Amount: 1.273406
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 1729780
Amount: 1.280867
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:53:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 234 of 978

11/21/2022
4:10 PM

Eurofins Burlington

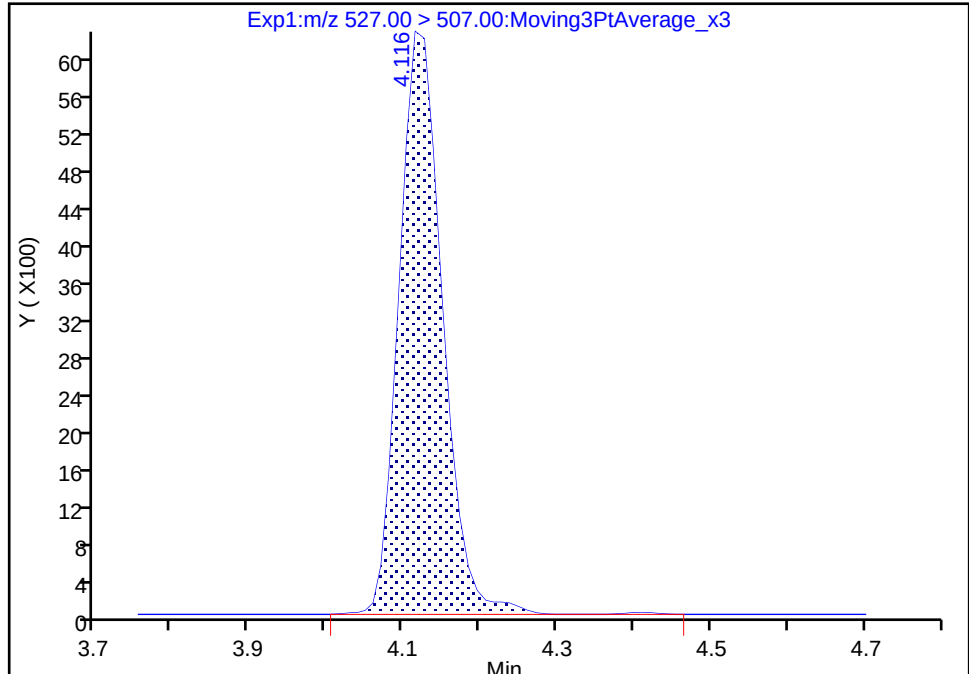
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

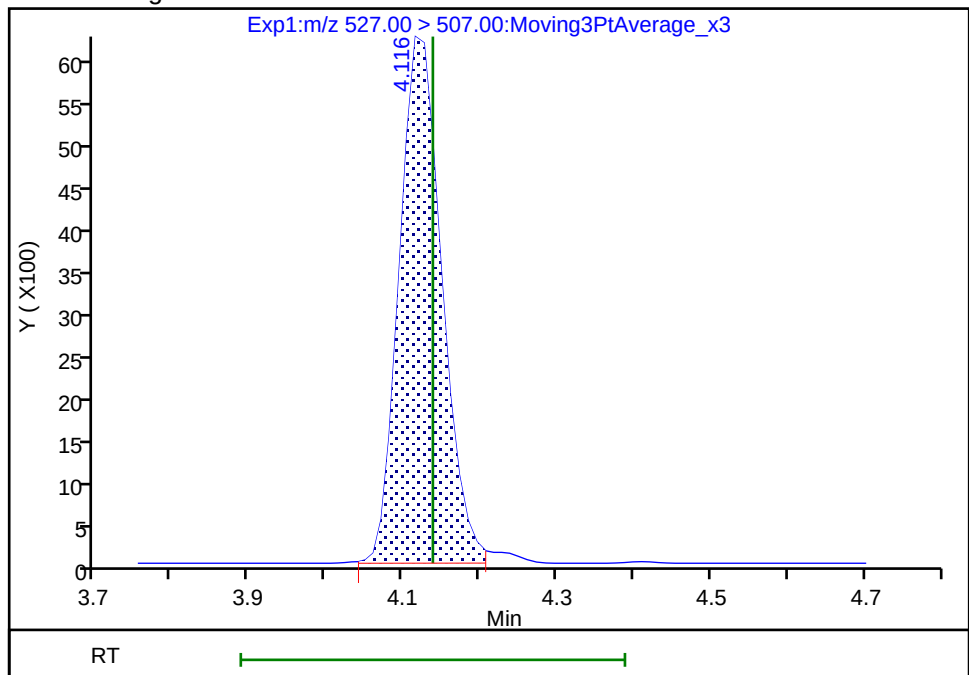
RT: 4.12
Area: 24461
Amount: 0.091860
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 23997
Amount: 0.094354
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 235 of 978

11/21/2022
4:10 PM

Eurofins Burlington

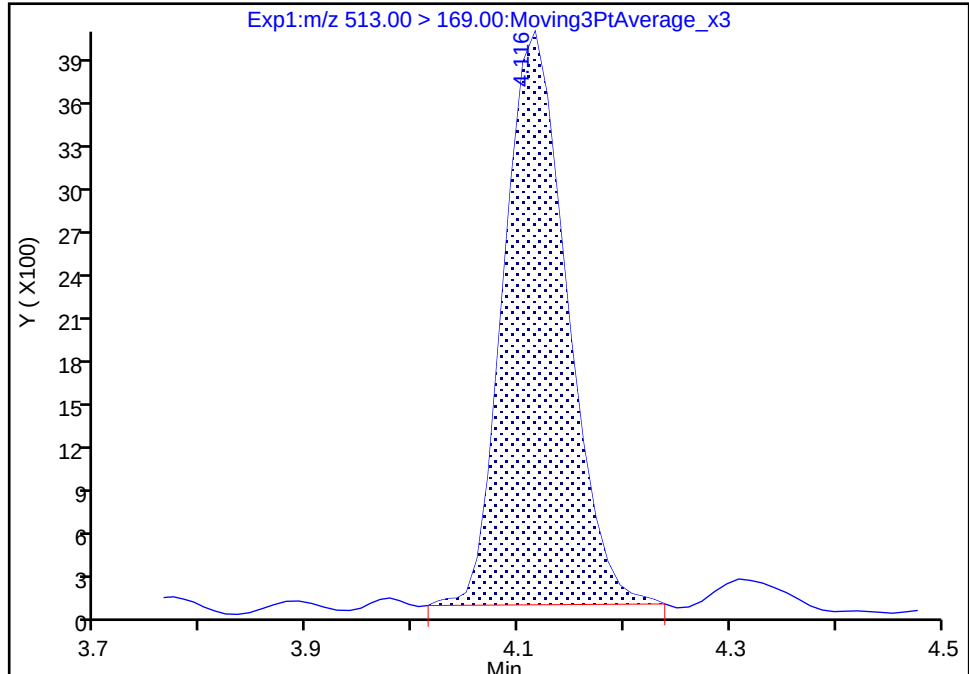
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

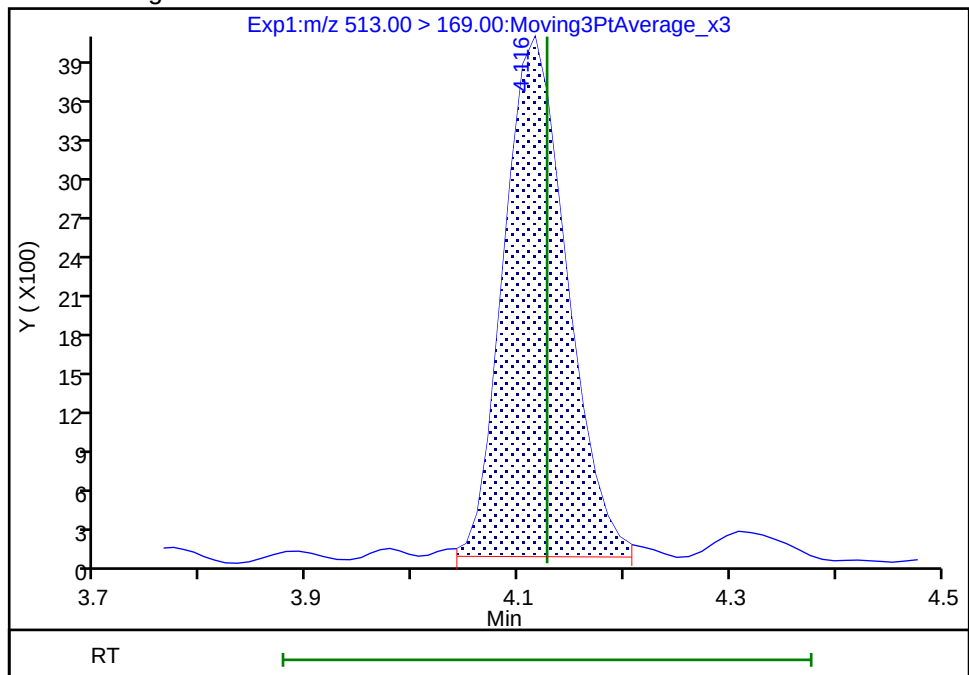
RT: 4.12
Area: 16424
Amount: 0.099456
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 16457
Amount: 0.106407
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:53:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 236 of 978

11/21/2022
4:10 PM

Eurofins Burlington

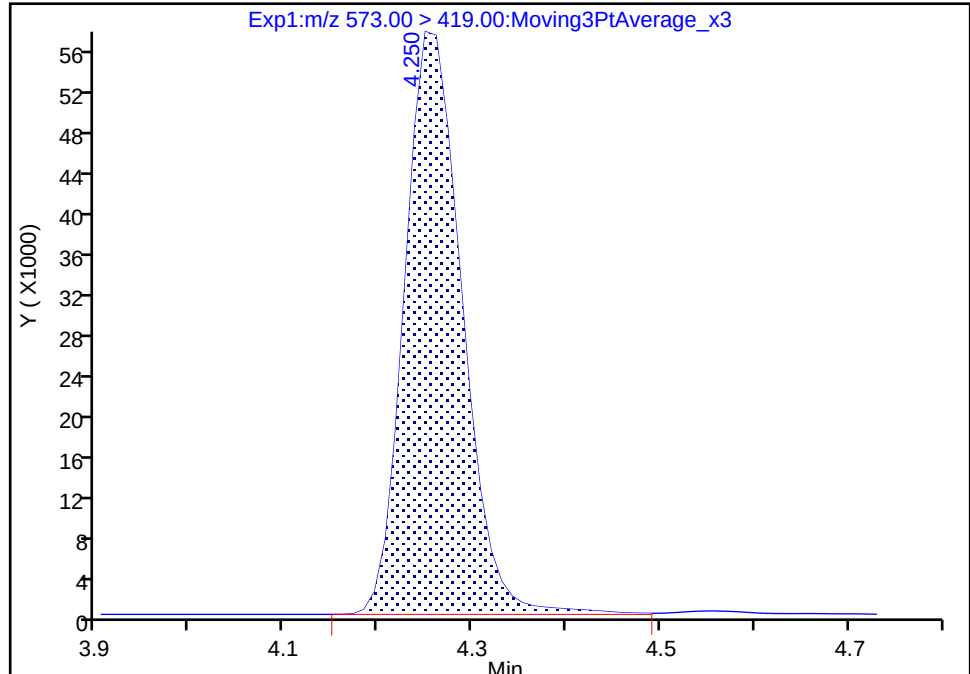
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

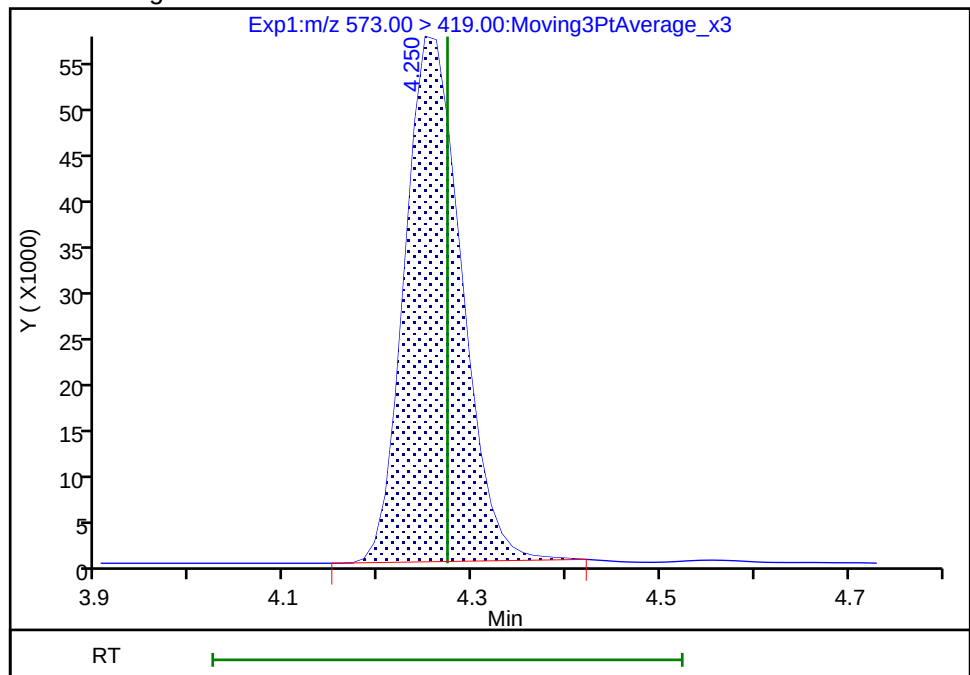
RT: 4.25
Area: 246243
Amount: 1.293206
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 241895
Amount: 1.272027
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

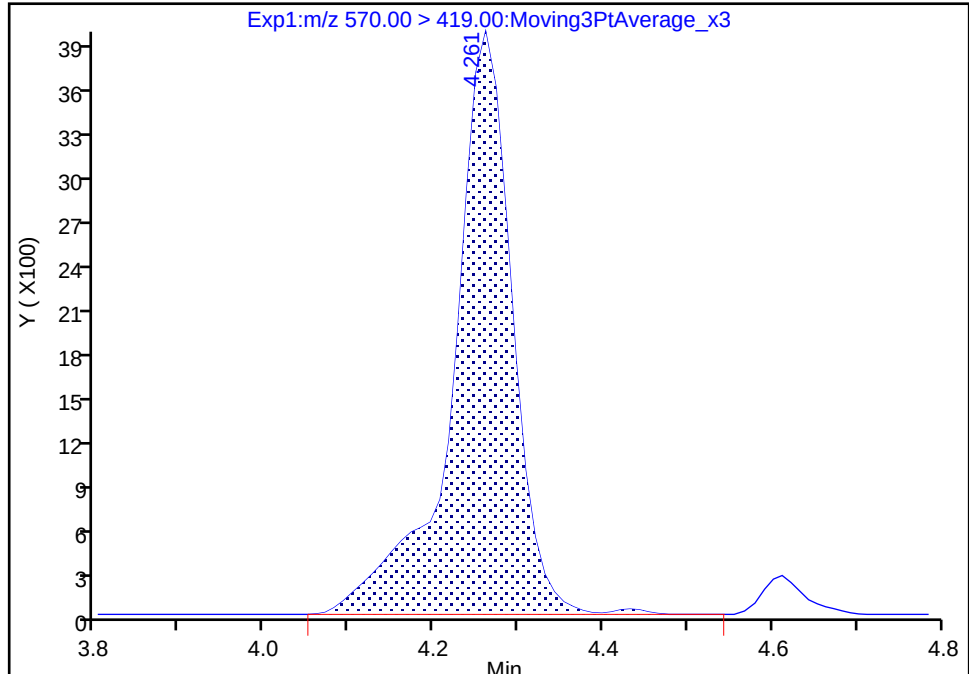
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

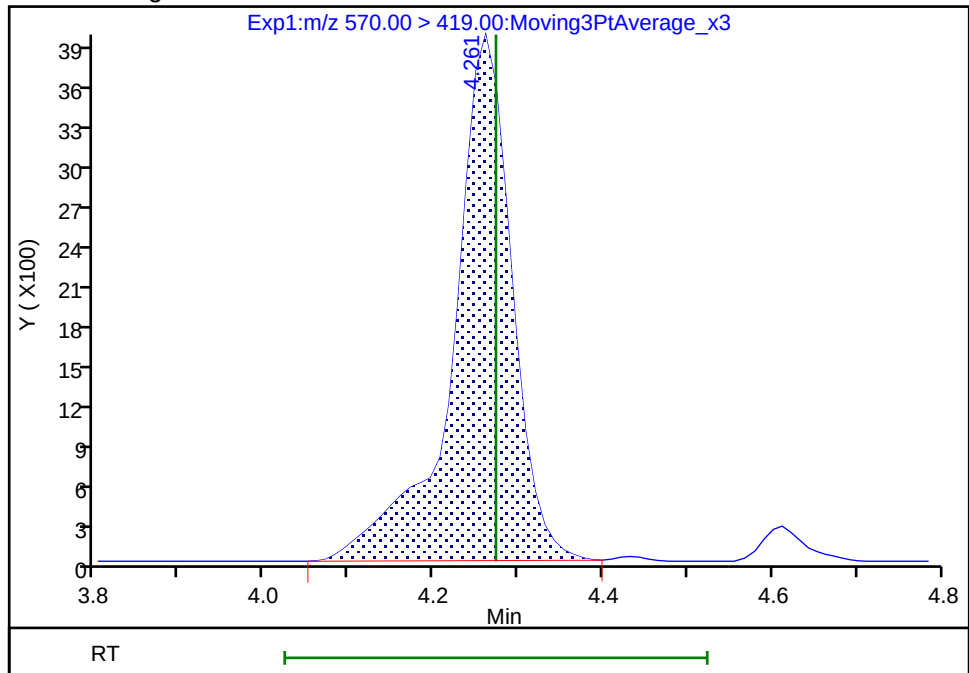
RT: 4.26
Area: 19643
Amount: 0.105082
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 19467
Amount: 0.108776
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 238 of 978

11/21/2022
4:10 PM

Eurofins Burlington

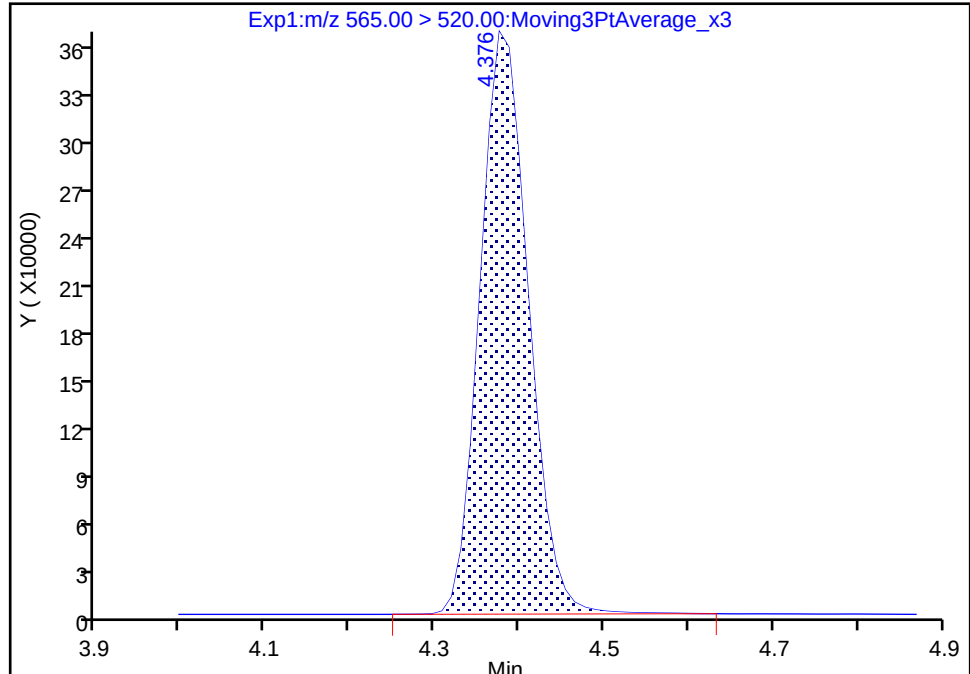
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

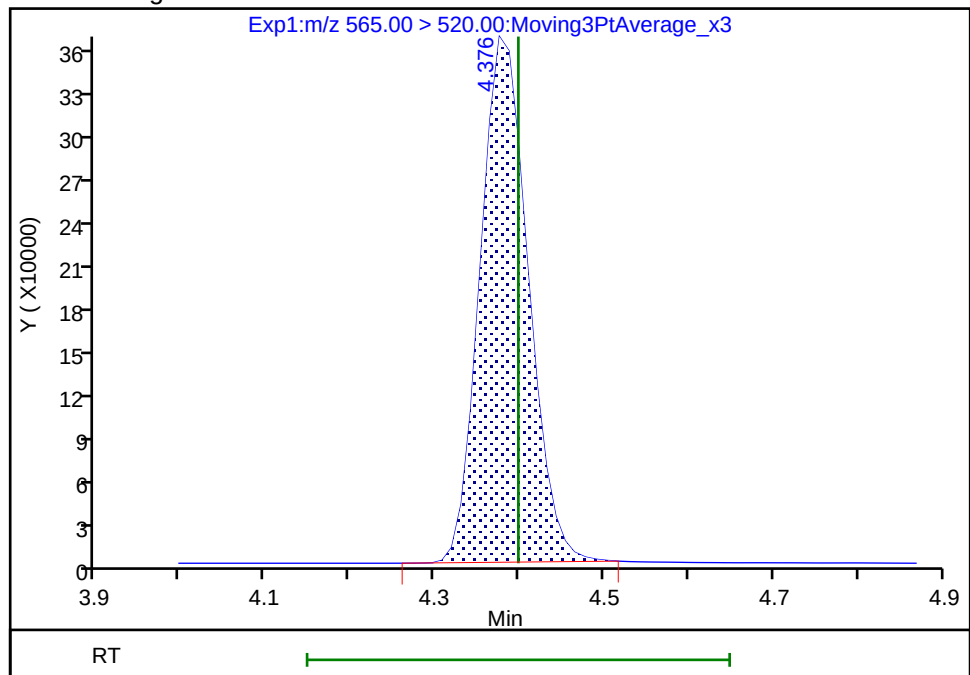
RT: 4.38
Area: 1439652
Amount: 1.273399
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 1427912
Amount: 1.291246
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 239 of 978

11/21/2022
4:10 PM

Eurofins Burlington

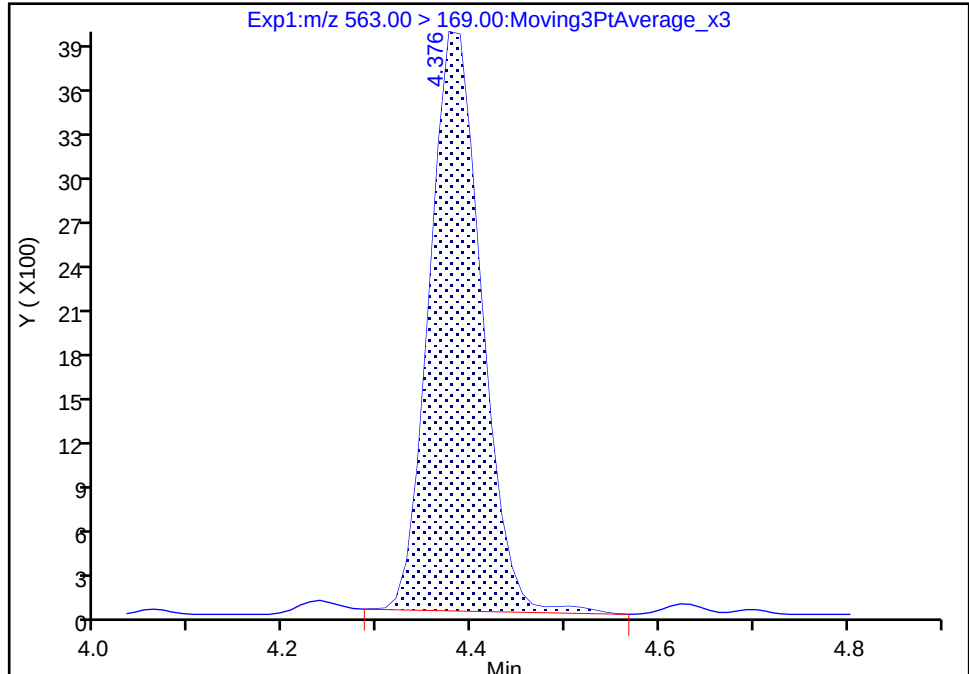
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

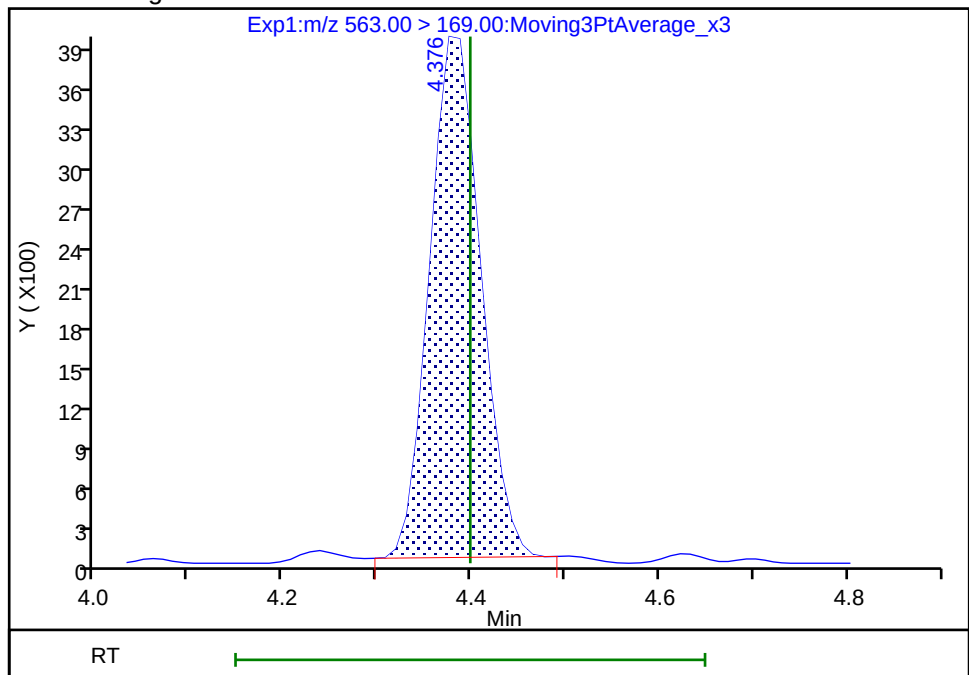
RT: 4.38
Area: 15067
Amount: 0.098030
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 14694
Amount: 0.103653
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 240 of 978

11/21/2022
4:10 PM

Eurofins Burlington

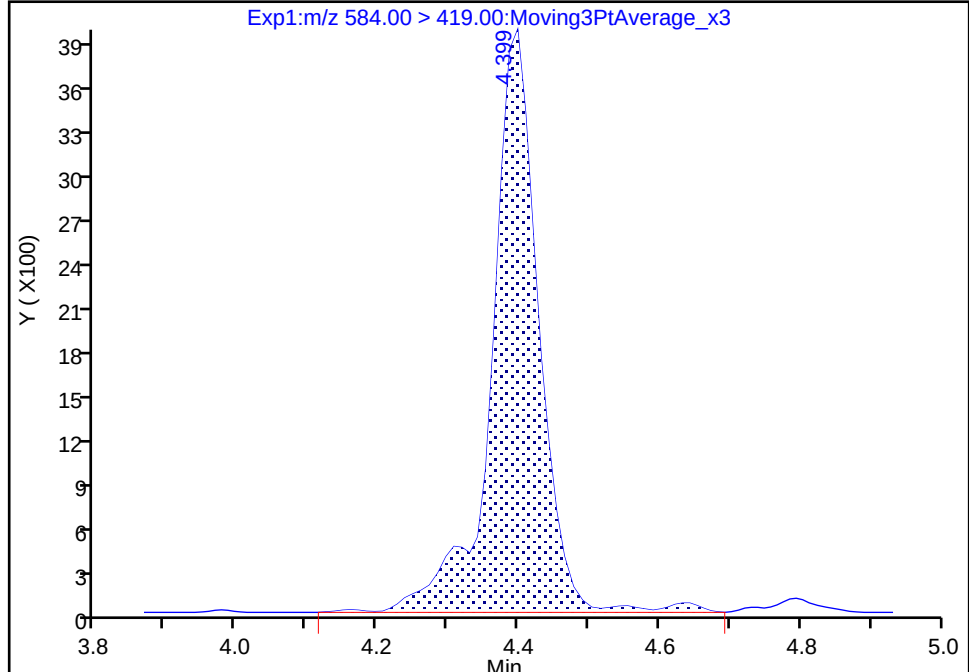
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

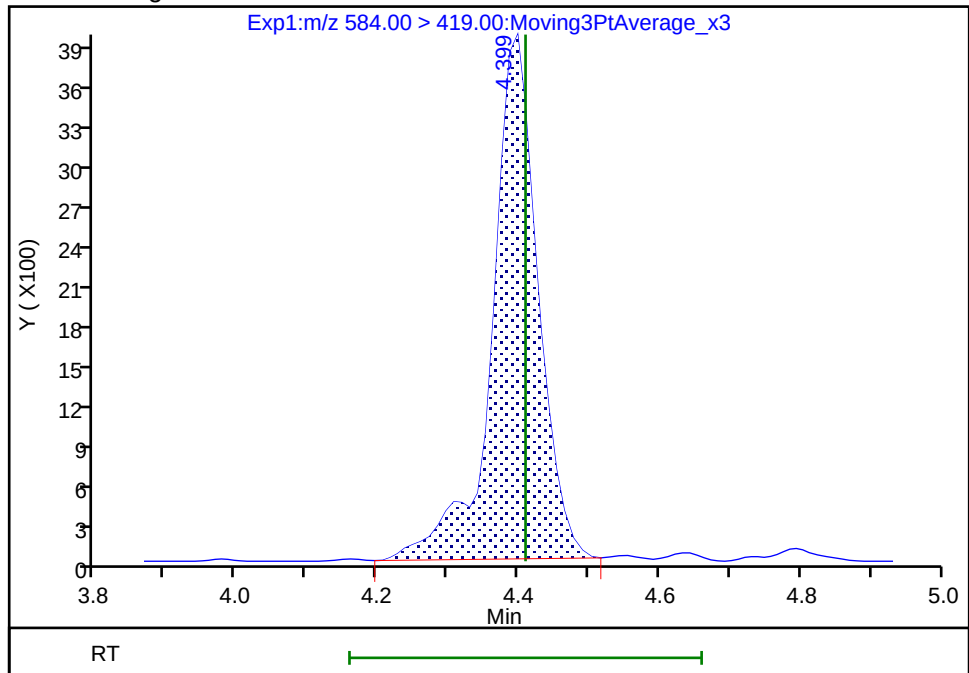
RT: 4.40
Area: 18373
Amount: 0.095941
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 17699
Amount: 0.099371
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 241 of 978

11/21/2022
4:10 PM

Eurofins Burlington

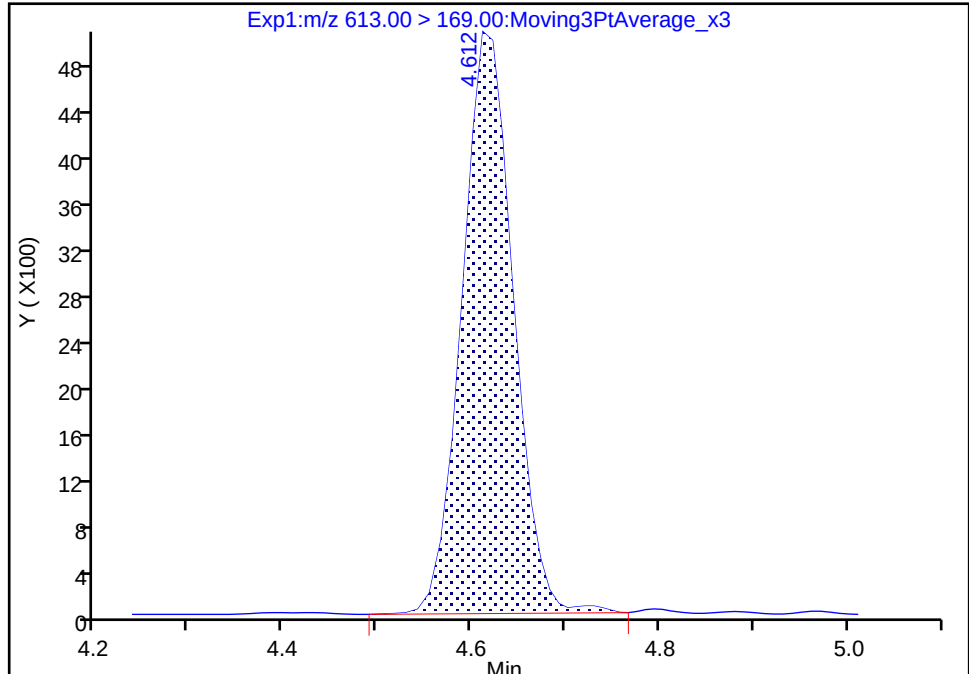
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

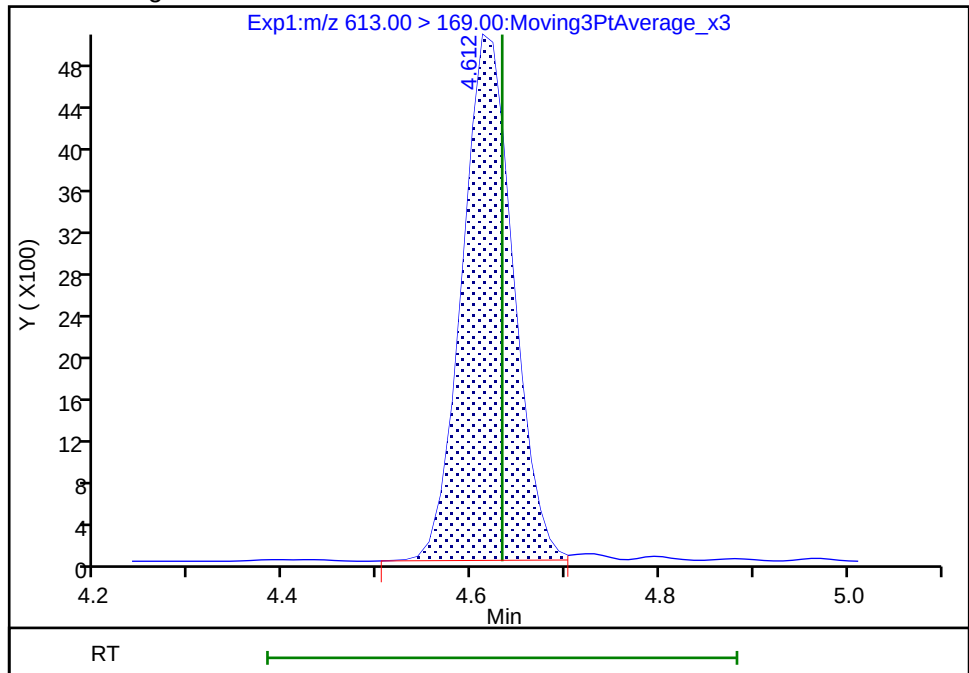
RT: 4.61
Area: 18923
Amount: 0.100008
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 18764
Amount: 0.106624
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:54:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 242 of 978

11/21/2022
4:10 PM

Eurofins Burlington

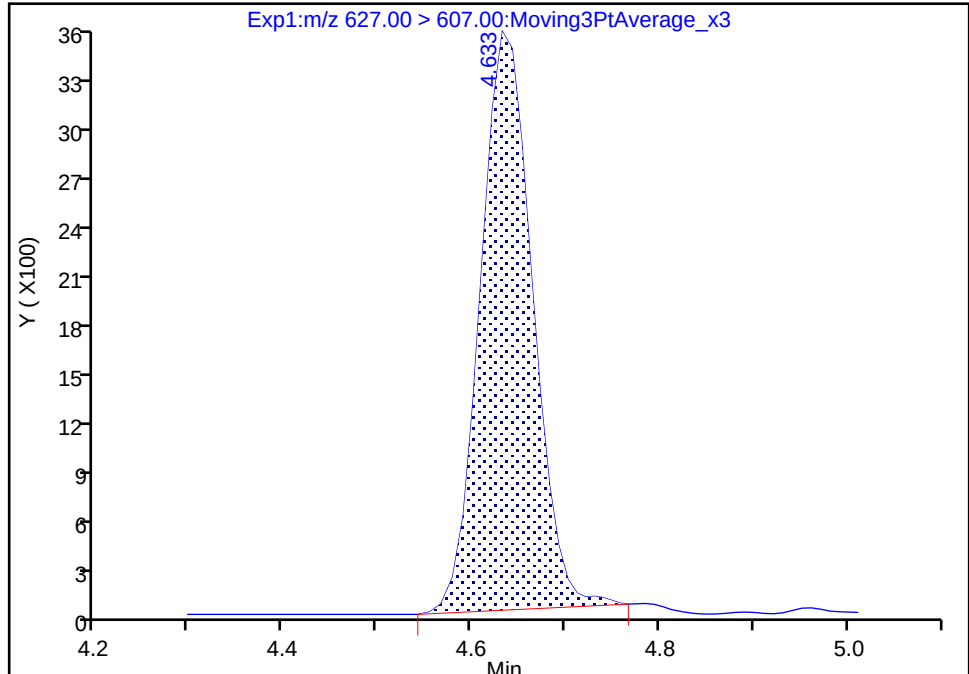
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

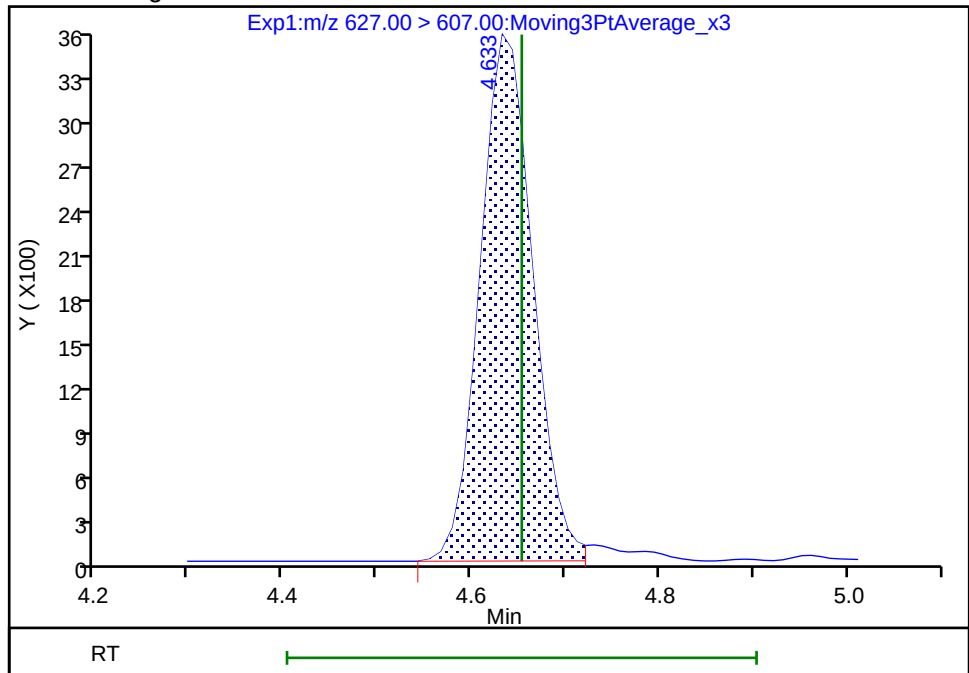
RT: 4.63
Area: 13750
Amount: 0.095727
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 13909
Amount: 0.100737
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:55:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 243 of 978

11/21/2022
4:10 PM

Eurofins Burlington

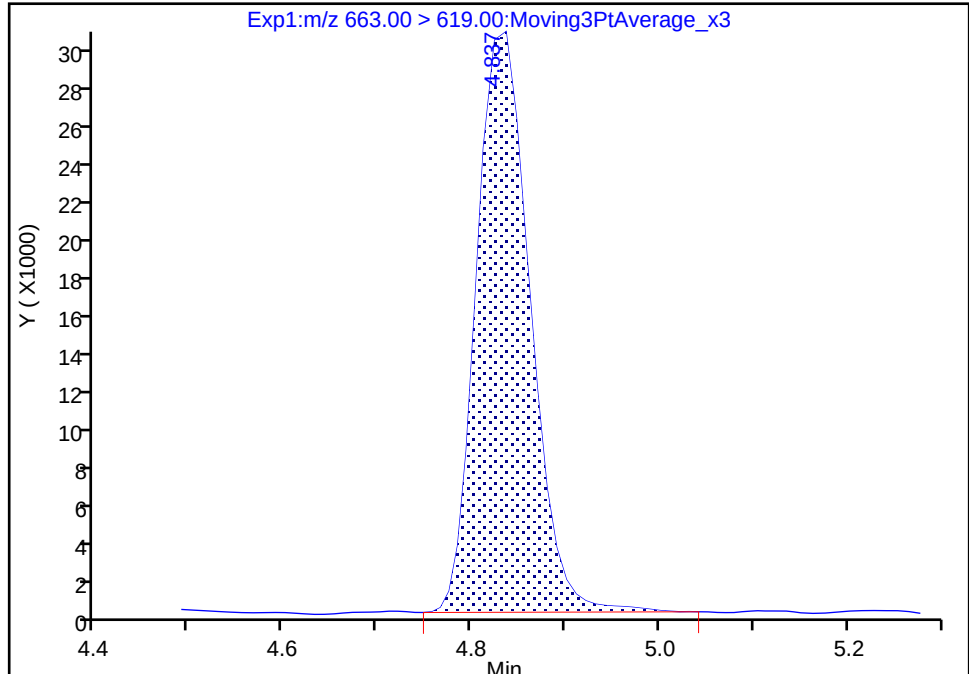
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

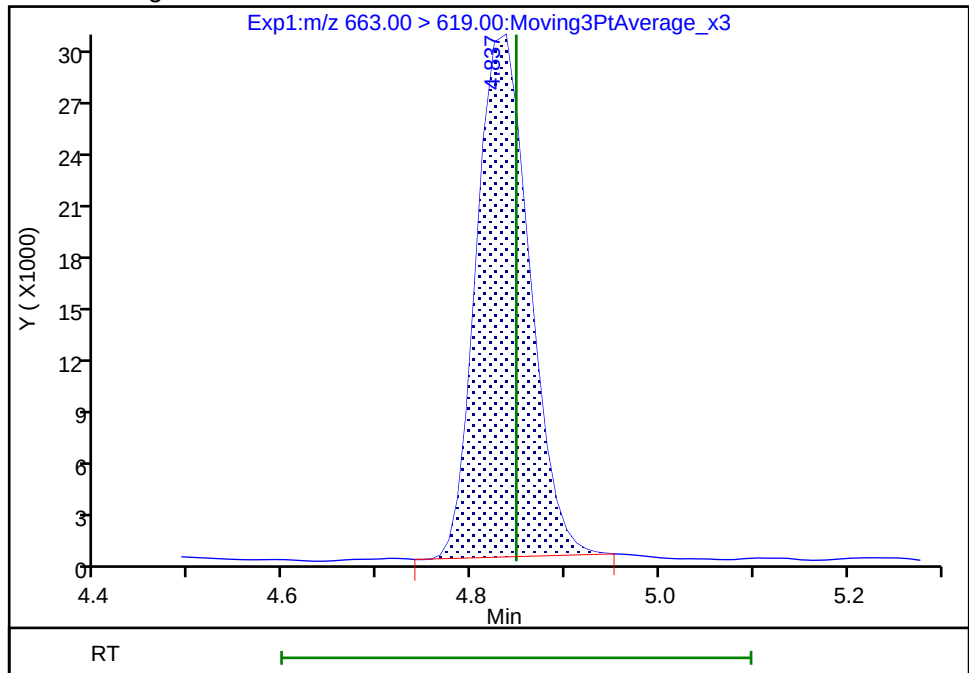
RT: 4.84
Area: 118251
Amount: 0.100090
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 115701
Amount: 0.104169
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:55:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 244 of 978

11/21/2022
4:10 PM

Eurofins Burlington

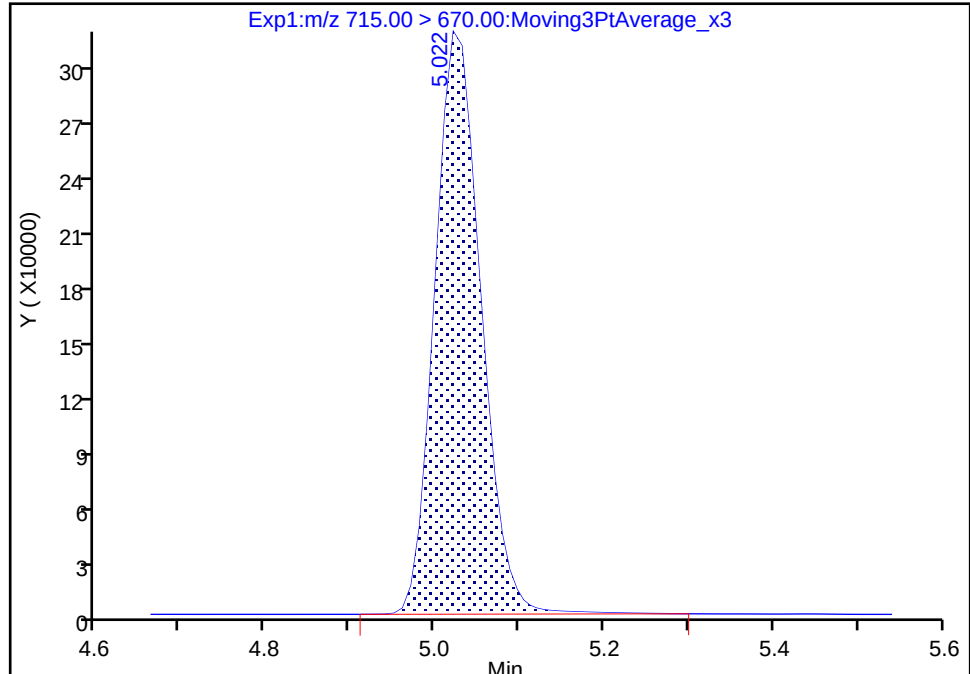
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

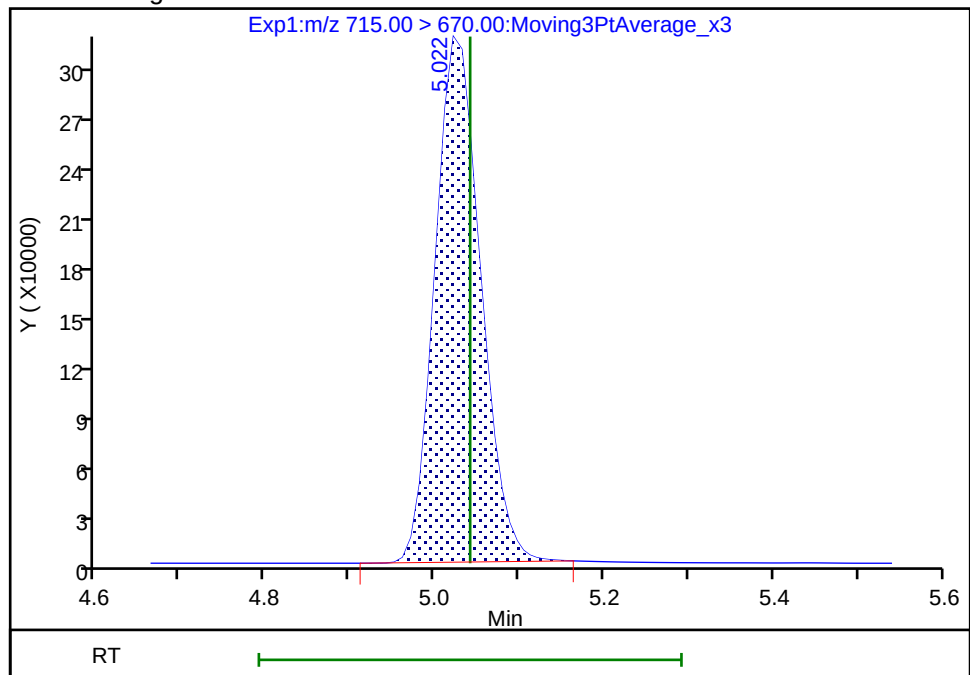
RT: 5.02
Area: 1183967
Amount: 1.248962
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 1171213
Amount: 1.271024
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:55:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 245 of 978

11/21/2022
4:10 PM

Eurofins Burlington

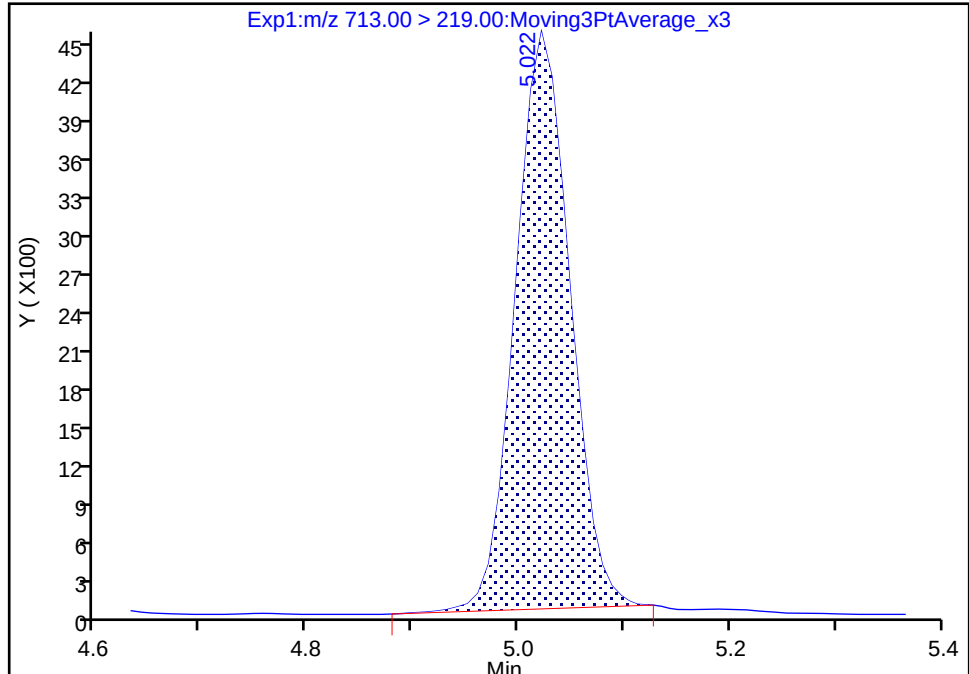
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

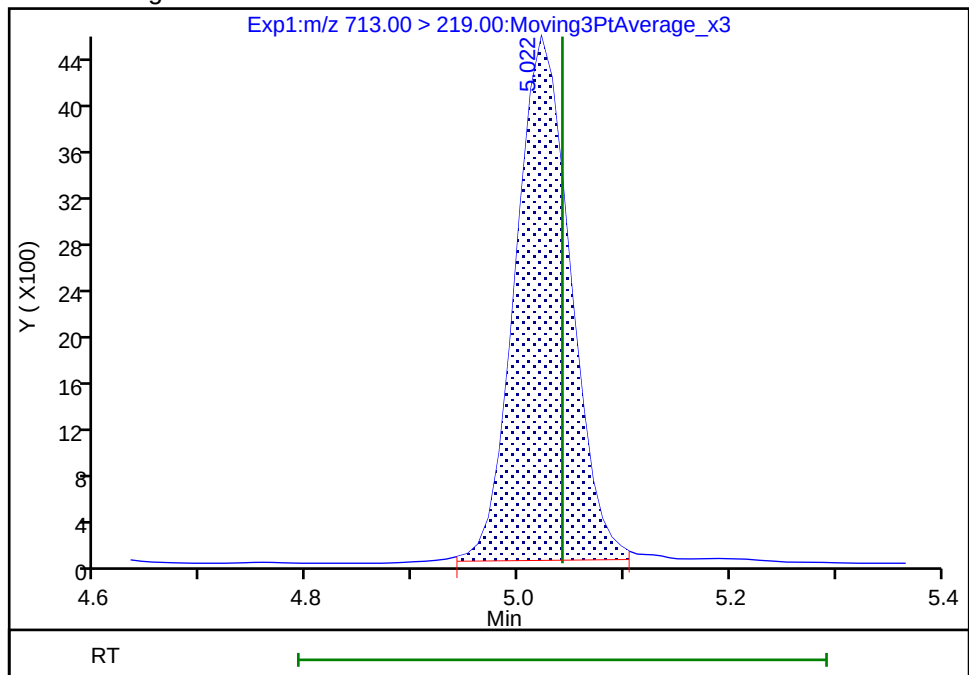
RT: 5.02
Area: 16108
Amount: 0.099516
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 16236
Amount: 0.101923
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:56:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 246 of 978

11/21/2022
4:10 PM

Eurofins Burlington

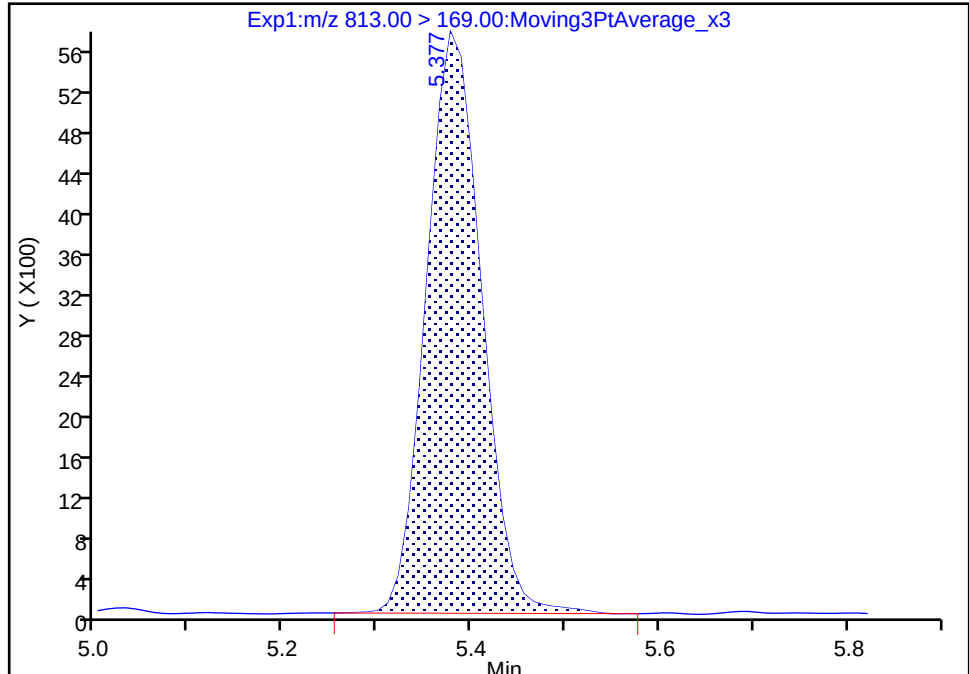
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL06.d
Injection Date: 14-Sep-2022 10:41:50 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

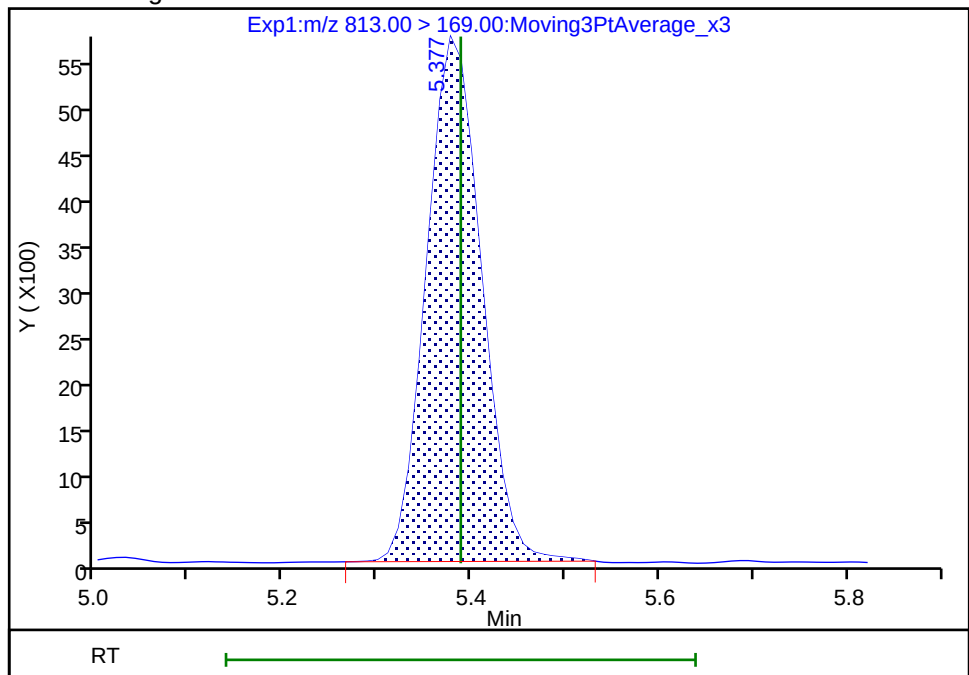
RT: 5.38
Area: 23535
Amount: 0.100000
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 23391
Amount: 0.100091
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:56:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 247 of 978

11/21/2022
4:10 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Sep-2022 10:50:01 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0052438-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:31 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 11:07:32

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	2.093	2.093	0.0	0.603	1758456	1.22		97.7	12635	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.102	-0.009	1.000	727727	0.5109		102	86.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.413	-0.013	0.691	1378228	1.22		97.3	3078	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.413	-0.013	1.000	630510	0.5345		107	21.6	
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.426	0.0	0.699	1300458	1.13		97.4	199113	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	614798	0.4767	Target=2.15	108	668	
298.90 > 99.00	2.426	2.426	0.0	1.000	273261		2.25(1.07-3.22)	108	257	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.713	2.725	-0.012	0.781	119373	1.15		98.3	145	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.713	2.725	-0.012	1.000	138979	0.5010		107	862	
D 7 13C2 PFHxA										
315.00 > 270.00	2.749	2.762	-0.013	0.792	1411774	1.23		98.0	3309	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.749	2.762	-0.013	1.000	637664	0.5200	Target=13.89	104	150	M
313.00 > 119.00	2.749	2.762	-0.013	1.000	48548		13.13(6.95-20.84)	104	92.8	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.761	2.774	-0.013	0.885	545918	0.4879	Target=3.05	104	701	
349.00 > 99.00	2.761	2.774	-0.013	0.885	179261		3.05(1.53-4.58)	104	397	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.859	2.871	-0.012	1.000	117835	0.5164		103	961	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	2.859	2.871	-0.012	0.823	261143	1.21		96.6	1220	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.121	3.132	-0.012	1.000	646972	0.4986	Target=4.00	99.7	224	
363.00 > 169.00	3.121	3.132	-0.012	1.000	160233		4.04(2.00-6.00)	99.7	316	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.132	-0.012	0.899	1455434	1.29		103	2930	
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.132	-0.012	0.899	964013	1.18		99.5	2873	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.121	3.132	-0.012	1.000	445435	0.4697	Target=3.63	103	907	M
399.00 > 99.00	3.121	3.132	-0.012	1.000	120650		3.69(1.82-5.45)	103	204	M
77 DONA										
377.00 > 251.00	3.154	3.165	-0.011	0.832	1469288	0.4852	Target=3.03	103	1345	M
377.00 > 85.00	3.154	3.165	-0.011	0.832	490414		3.00(1.52-4.55)	103	546	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.464	3.473	-0.009	0.914	382025	0.4976	Target=5.20	105	1484	
449.00 > 99.00	3.464	3.473	-0.009	0.914	70062		5.45(2.60-7.80)	105	449	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.464	3.481	-0.017	1.000	124338	0.4944		104	528	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.464	3.481	-0.017	0.997	163935	1.17		98.6	461	
D 14 13C4 PFOA										
417.00 > 372.00	3.472	3.490	-0.018	1.000	1486584	1.23		98.2	3562	
* 62 13C2 PFOA										
415.00 > 370.00	3.472	3.490	-0.018		1475976	1.25			4033	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.481	3.490	-0.009	1.003	706257	0.5247	Target=2.83	105	63.1	M
413.00 > 169.00	3.481	3.490	-0.009	1.003	254552		2.77(1.41-4.24)	105	495	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.791	3.801	-0.010	1.000	317113	0.4790	Target=5.27	103	308	M
499.00 > 99.00	3.791	3.801	-0.010	1.000	66026		4.80(2.64-7.91)	103	320	M
D 18 13C4 PFOS										
503.00 > 80.00	3.791	3.801	-0.010	1.092	651103	1.21		101	1893	
20 Perfluorononanoic acid										
463.00 > 419.00	3.811	3.821	-0.010	1.000	614338	0.5110	Target=8.24	102	201	M
463.00 > 169.00	3.811	3.821	-0.010	1.000	69825		8.80(4.12-12.36)	102	506	M
D 19 13C5 PFNA										
468.00 > 423.00	3.811	3.821	-0.010	1.097	1431589	1.20		96.2	2724	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.959	3.969	-0.010	1.044	605095	0.4556		97.8	2401	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.081	4.104	-0.023	1.076	240964	0.4996	Target=2.56	104	1698	
549.00 > 99.00	4.081	4.104	-0.023	1.076	93401		2.58(1.28-3.84)	104	714	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.127	-0.012	1.185	1399706	1.21		96.8	2092	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	4.115	4.127	-0.012	1.000	628508	0.5219	Target=9.84	104	378	
513.00 > 169.00	4.115	4.127	-0.012	1.000	66692		9.42(4.92-14.76)	104	232	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.138	-0.011	1.188	187861	1.13		94.8	728	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.138	-0.011	1.000	99639	0.5125		107	870	
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.184	0.0	1.205	1128680	1.20		95.8	1314	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.184	4.196	-0.012	1.000	494180	0.5419		108	1068	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.273	-0.012	1.227	210264	1.29		103	641	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	74732	0.4804		96.1	234	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.353	4.365	-0.012	1.148	183340	0.4877	Target=2.77	101	1935	
599.00 > 99.00	4.353	4.365	-0.012	1.148	69379		2.64(1.38-4.15)	101	770	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.399	-0.012	1.263	1168198	1.23		98.6	1513	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.399	-0.001	1.267	207198	1.28		102	768	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.387	4.399	-0.012	1.000	506209	0.5193	Target=9.37	104	370	
563.00 > 169.00	4.387	4.399	-0.012	1.000	52959		9.56(4.68-14.05)	104	624	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.398	4.410	-0.012	1.000	72481	0.4786		95.7	580	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.478	4.491	-0.013	1.181	839392	0.4858		103	2025	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.633	-0.011	1.000	493092	0.5314	Target=7.06	106	71.3	
613.00 > 169.00	4.622	4.633	-0.011	1.000	68722		7.18(3.53-10.59)	106	712	
D 36 13C2 PFDaA										
615.00 > 570.00	4.622	4.633	-0.011	1.331	1085440	1.17		94.0	2379	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.653	-0.010	1.125	51685	0.4896		102	351	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.794	4.803	-0.009	1.265	75318	0.4928	Target=0.51	102	841	
699.00 > 99.00	4.794	4.803	-0.009	1.265	149361		0.50(0.25-0.76)	102	1455	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.837	4.848	-0.011	1.046	442633	0.5205	Target=5.01	104	77.8	M
663.00 > 169.00	4.837	4.848	-0.011	1.046	94668		4.68(2.50-7.51)	104	763	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.032	5.041	-0.009	1.000	62194	0.5201	Target=0.95	104	704	
713.00 > 219.00	5.022	5.041	-0.019	0.998	69275		0.90(0.47-1.42)	104	852	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.032	5.041	-0.009	1.449	961015	1.22		97.4	2483	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.388	5.388	0.0	1.002	420545	0.5446	Target=4.99	109	105	
813.00 > 169.00	5.388	5.388	0.0	1.002	83153		5.06(2.49-7.48)	109	787	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.377	5.388	-0.011	1.549	1037396	1.19		95.2	3045	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.731	-0.009	1.064	315761	0.5264	Target=5.05	105	98.9	M
913.00 > 169.00	5.722	5.731	-0.009	1.064	61804		5.11(2.53-7.58)	105	584	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\20220914-52438.b\PA220914ICAL07.d

Injection Date: 14-Sep-2022 10:50:01

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

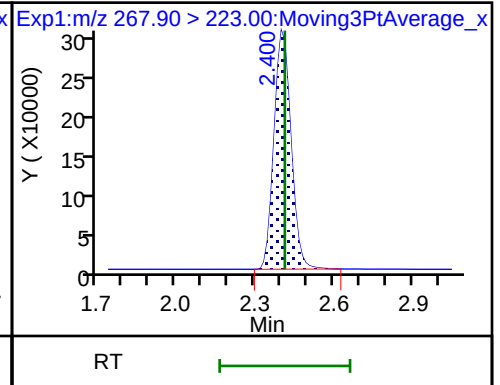
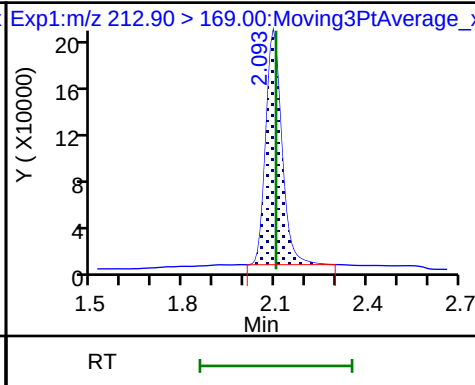
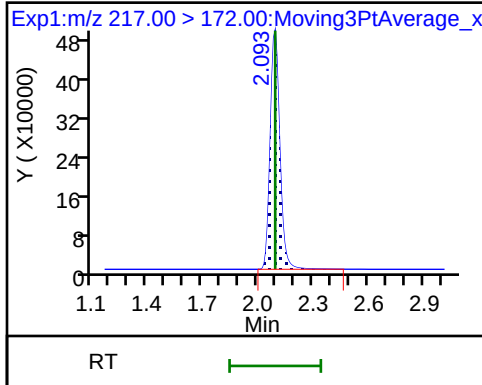
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

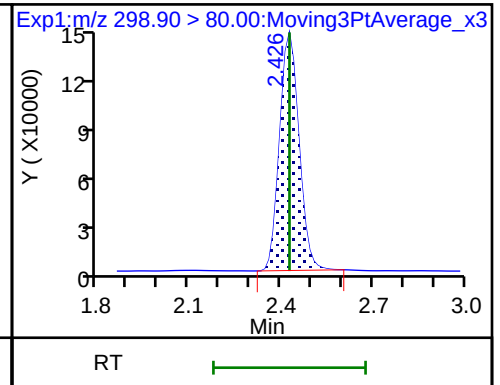
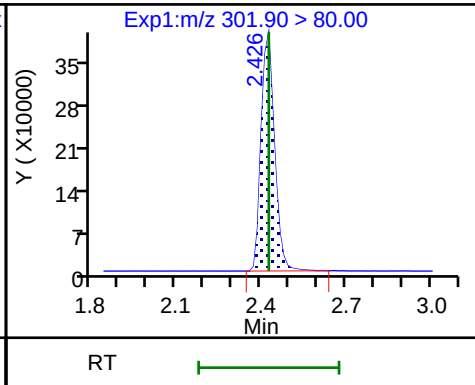
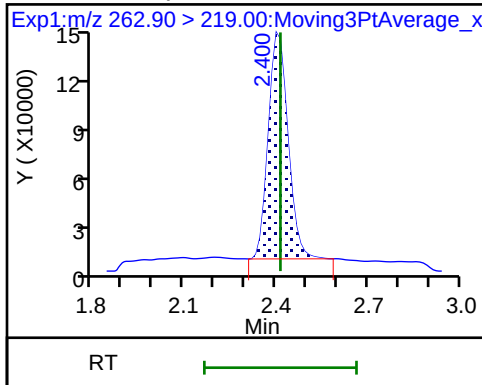
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

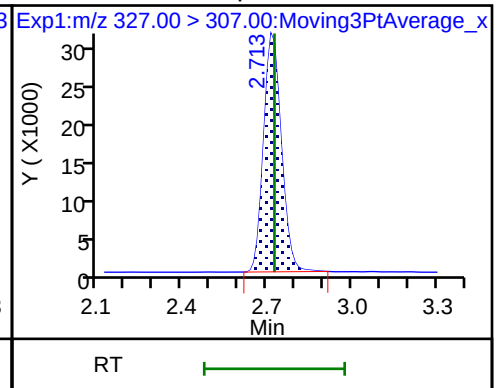
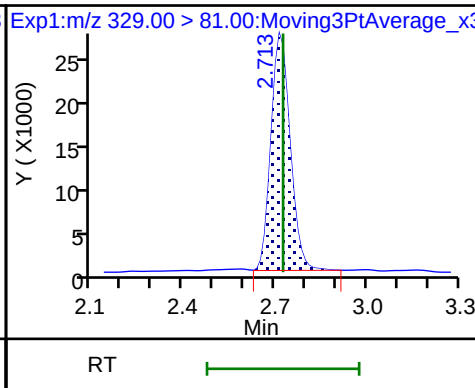
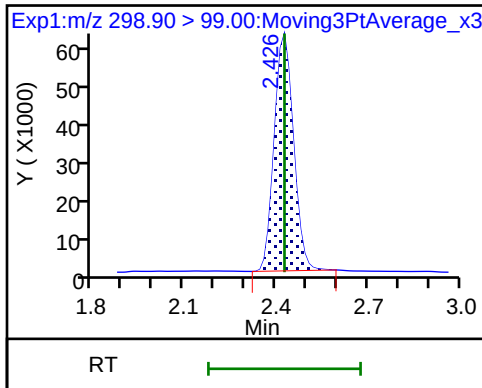
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

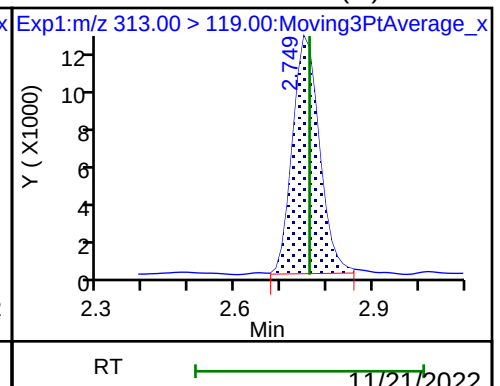
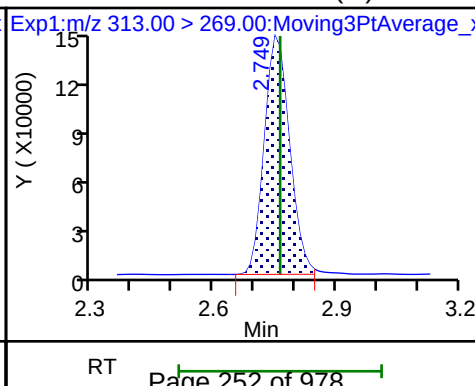
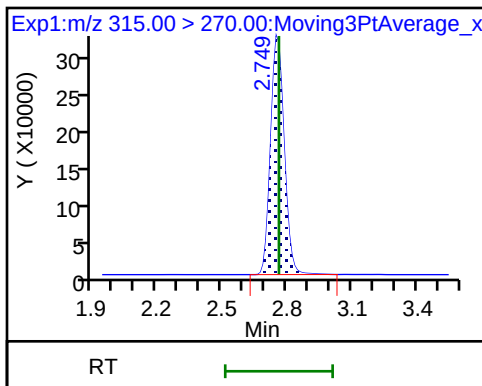
61 1H,1H,2H,2H-perfluorohexanesulfo

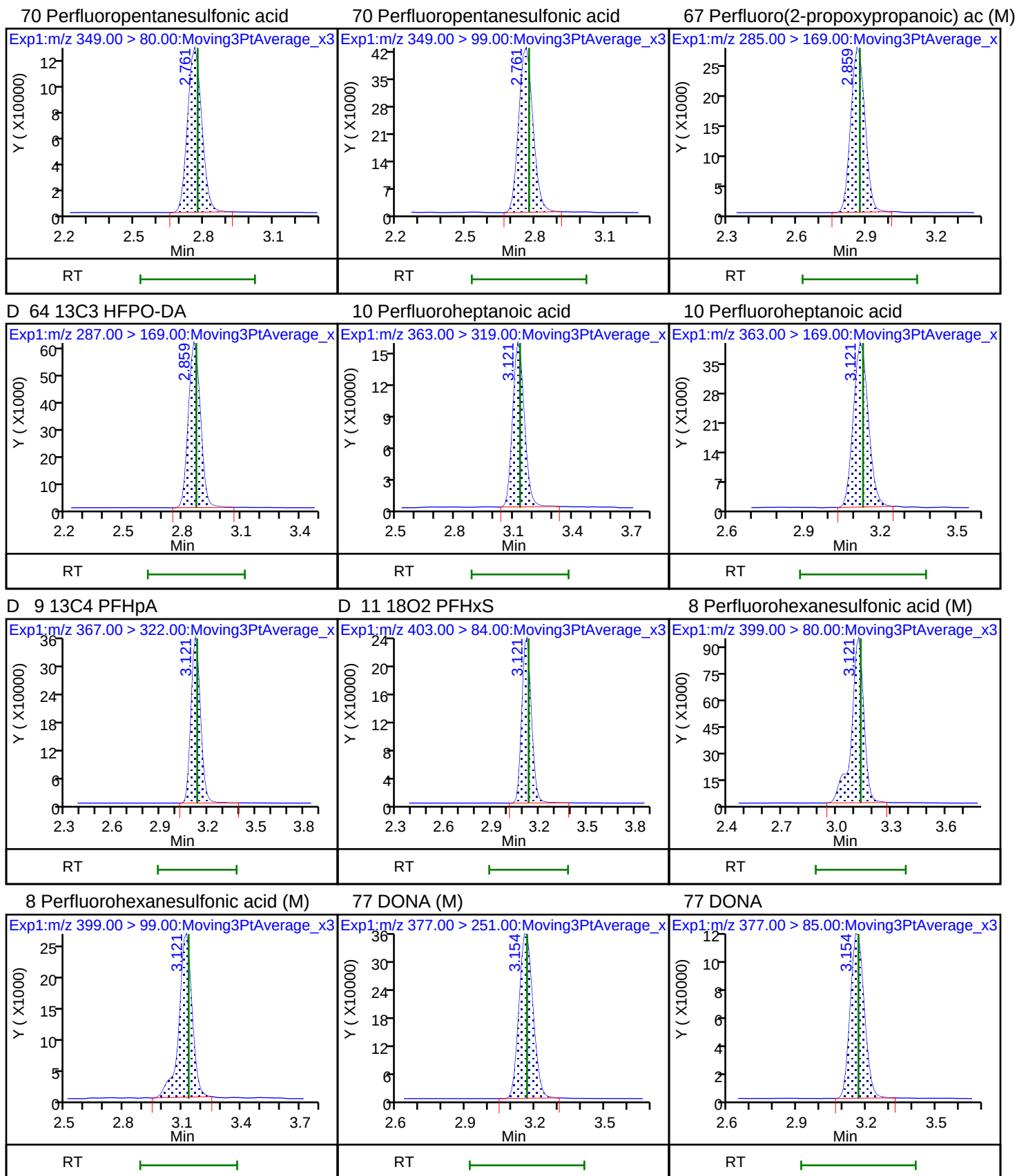


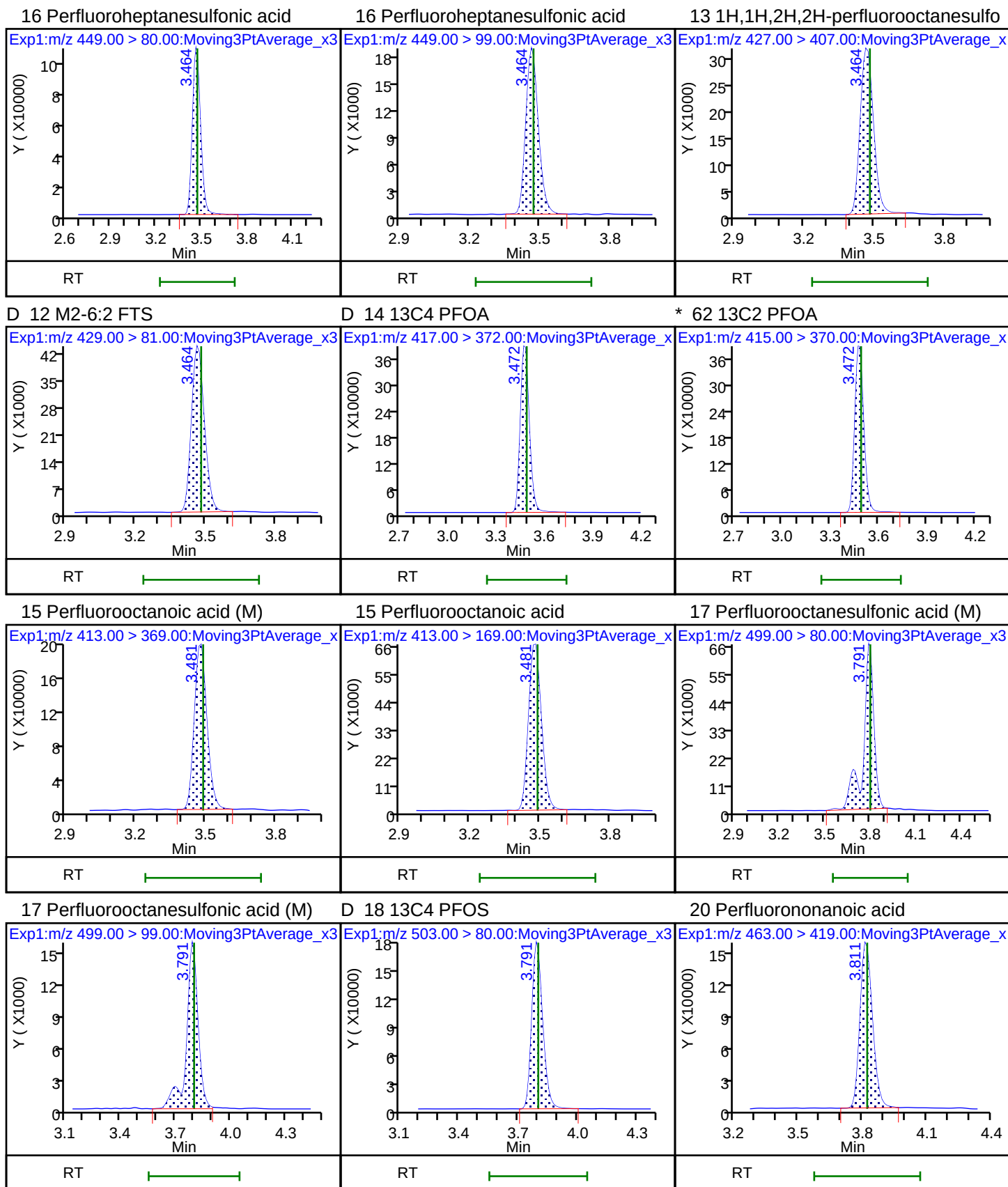
D 7 13C2 PFHxA

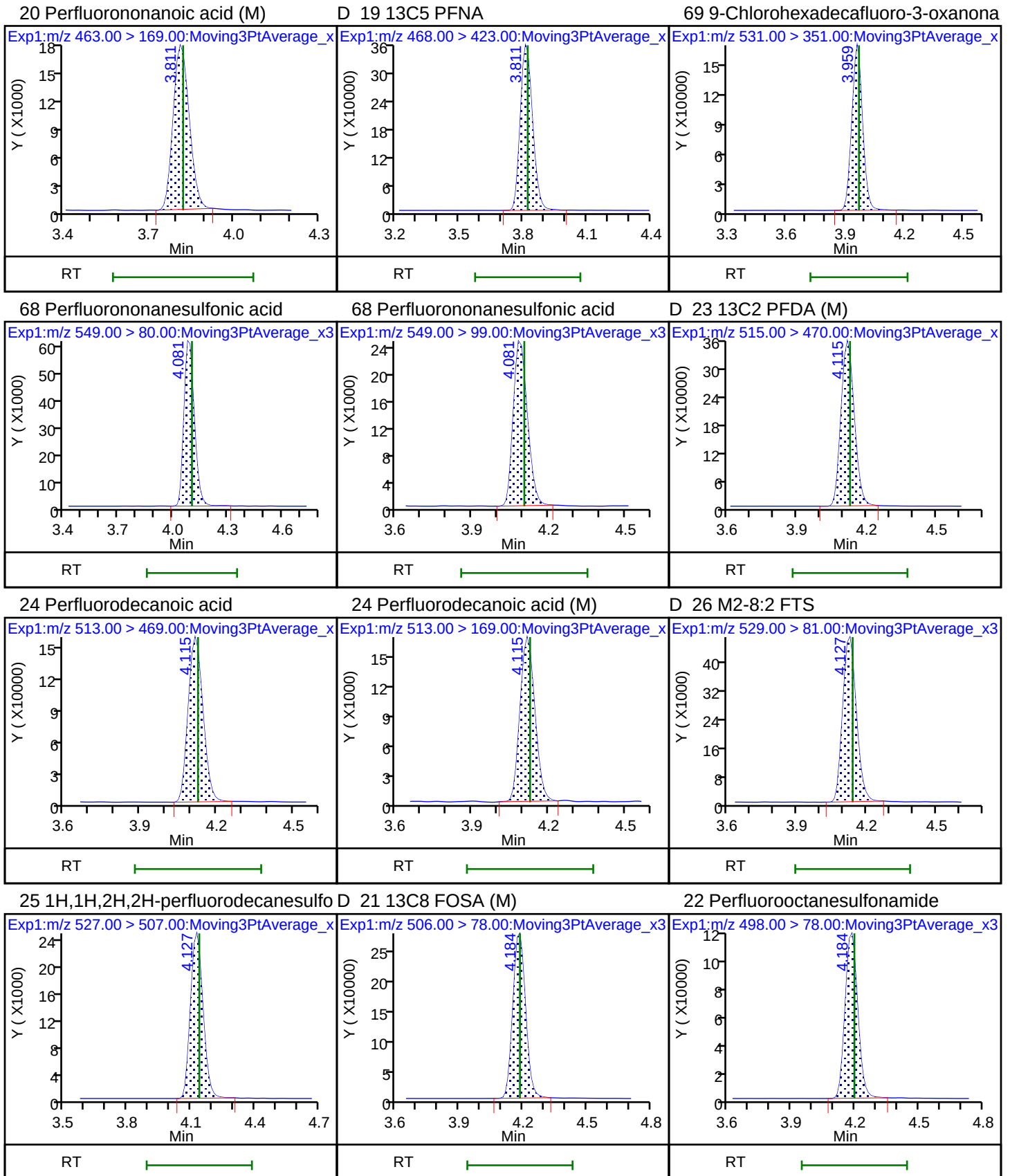
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)





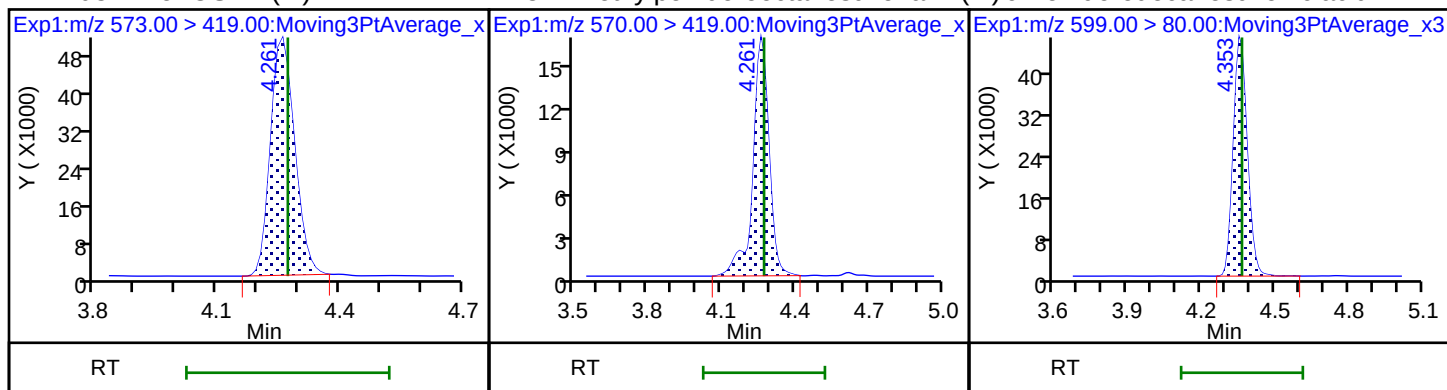




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

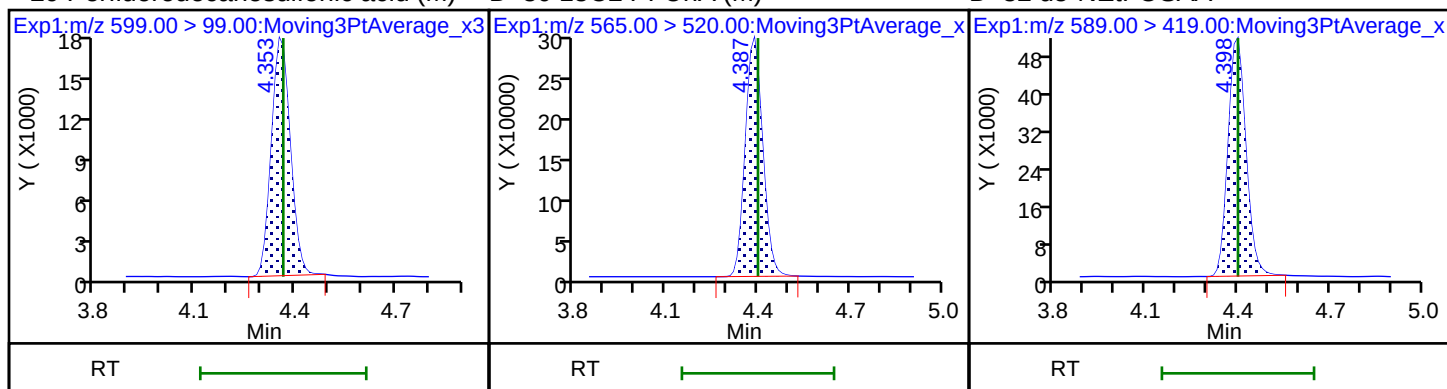
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

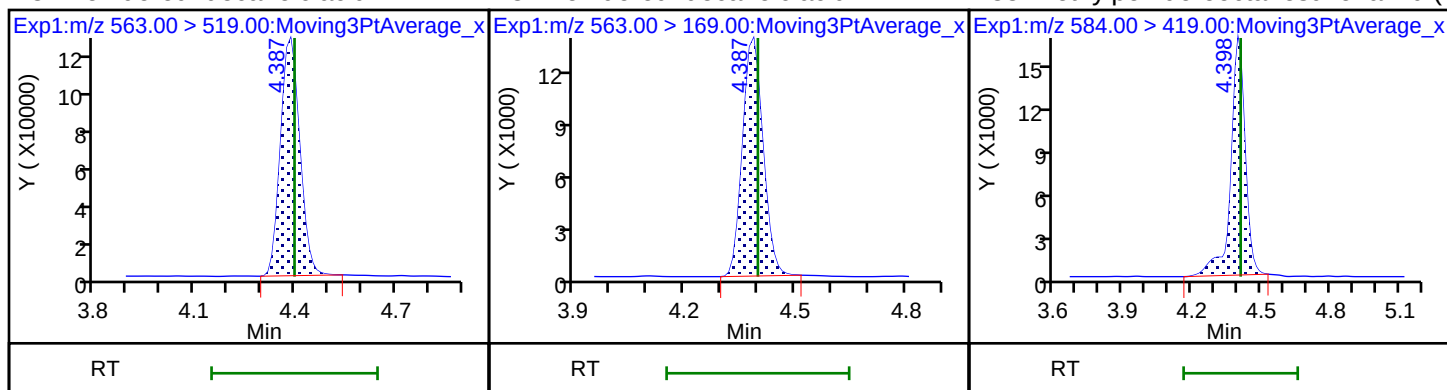
D 32 d5-NEtFOSAA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid

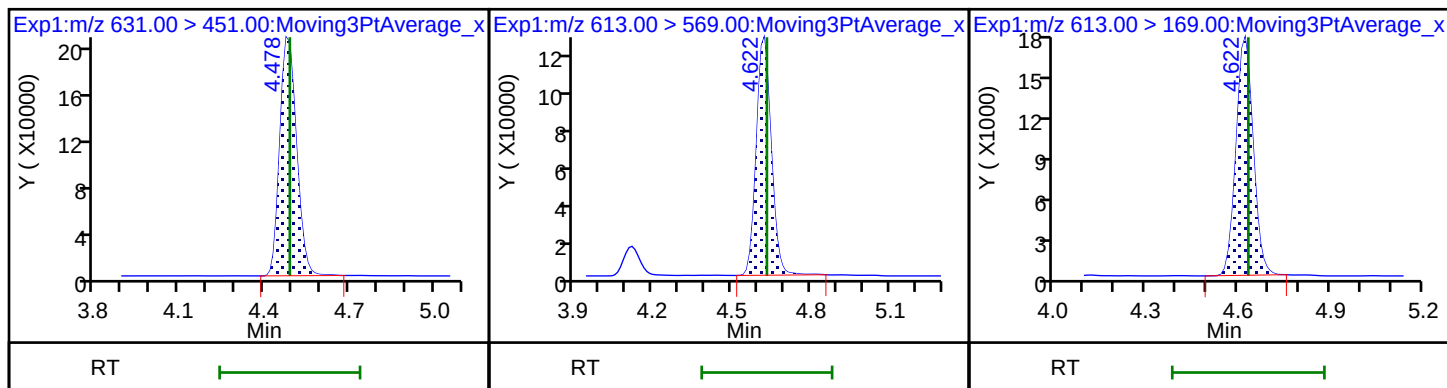
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

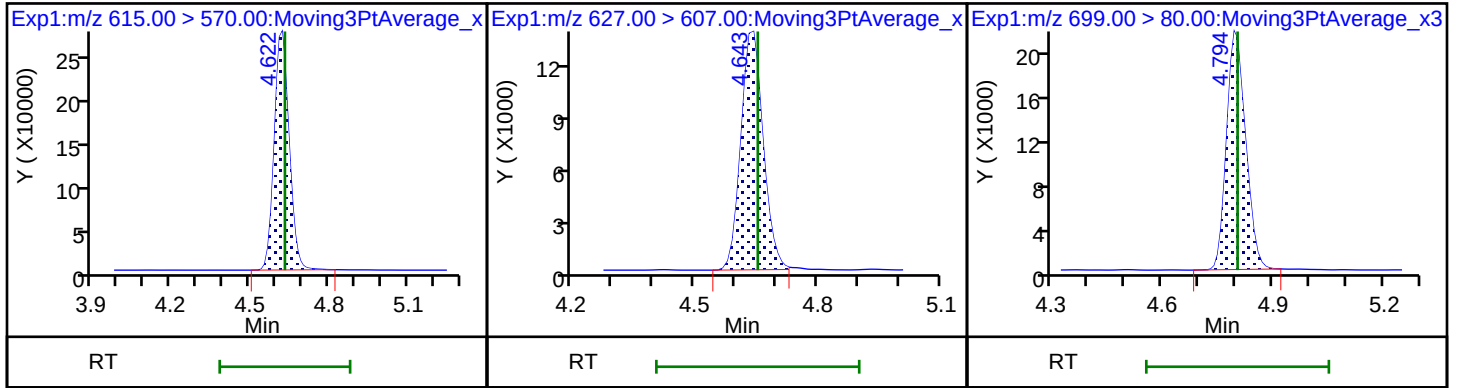
37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

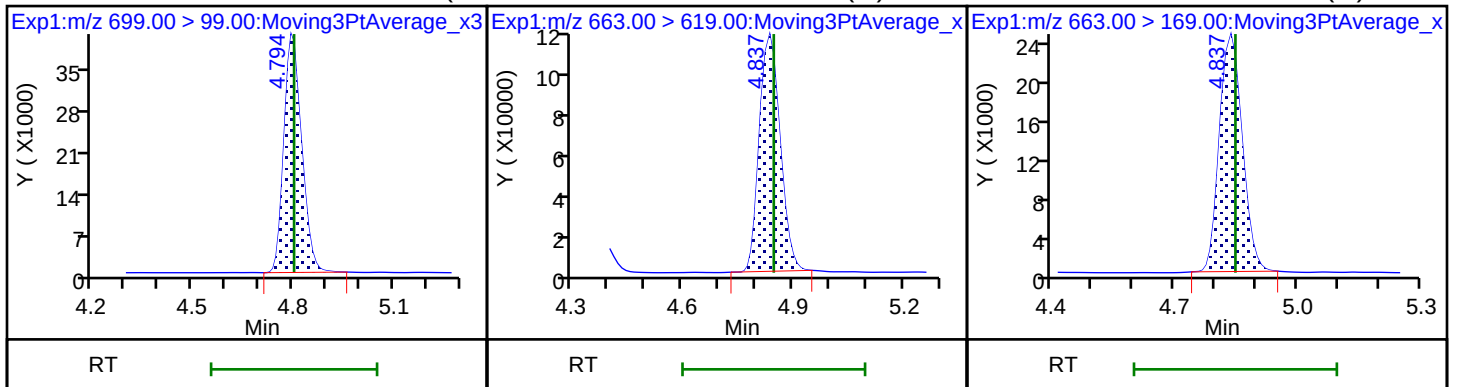
74 1H,1H,2H,2H-perfluorododecanesul (M) Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

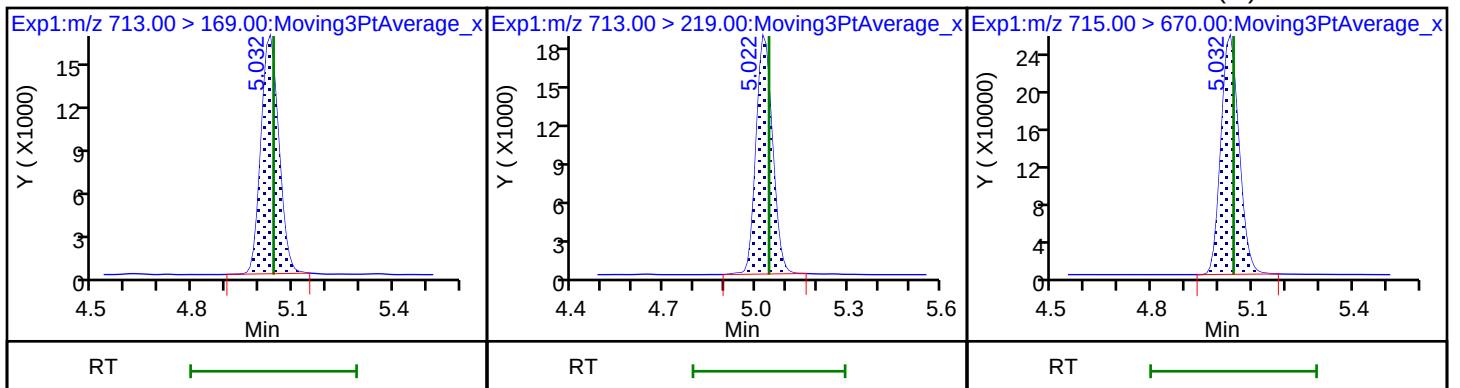
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

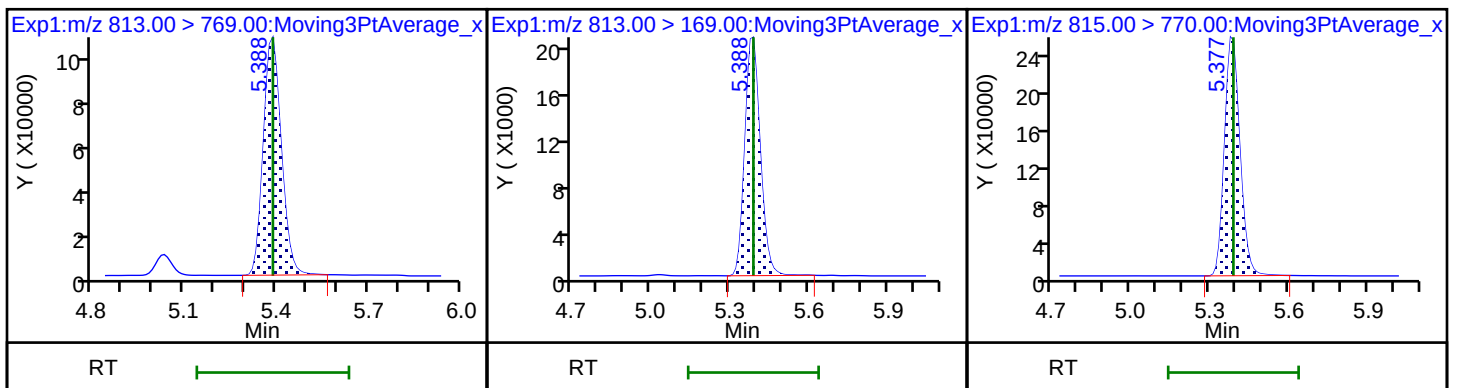
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

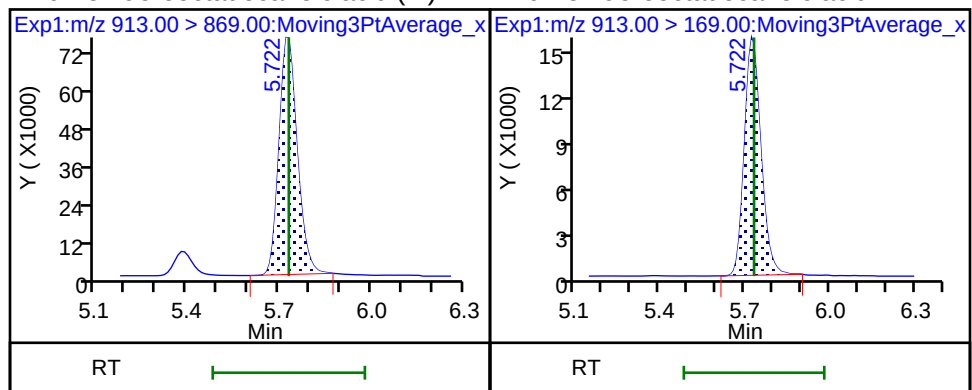
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins Burlington

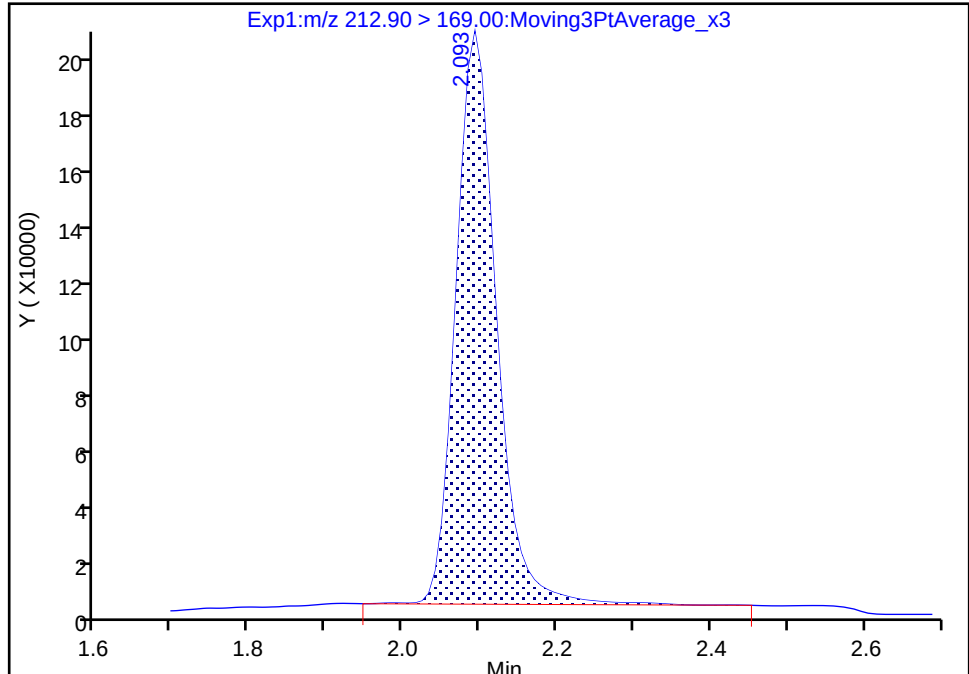
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

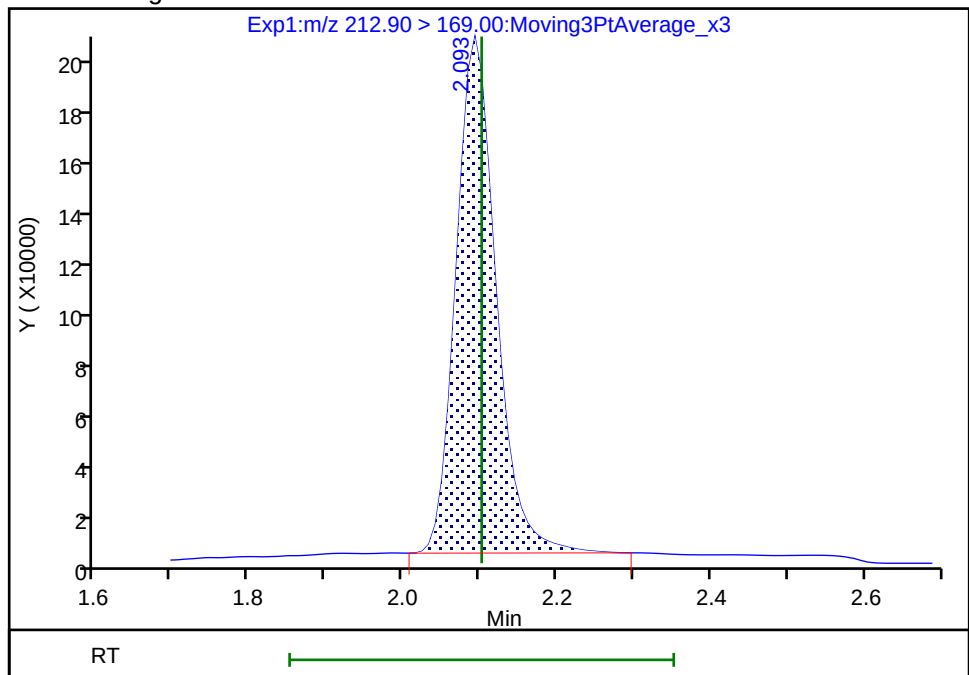
RT: 2.09
Area: 738528
Amount: 0.486097
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 727727
Amount: 0.510944
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:59:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 259 of 978

11/21/2022
4:10 PM

Eurofins Burlington

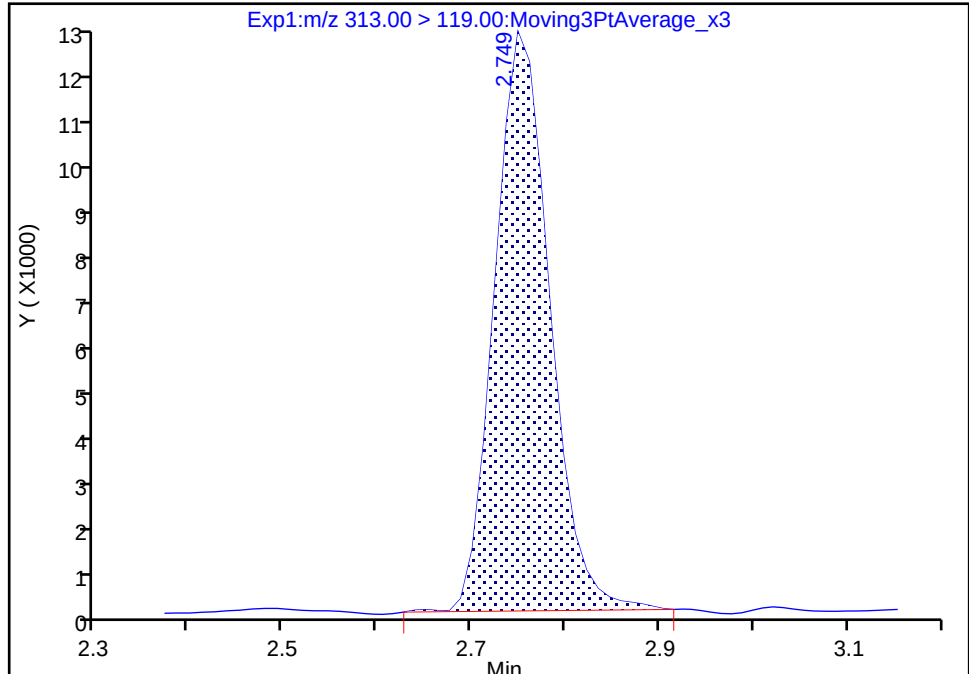
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

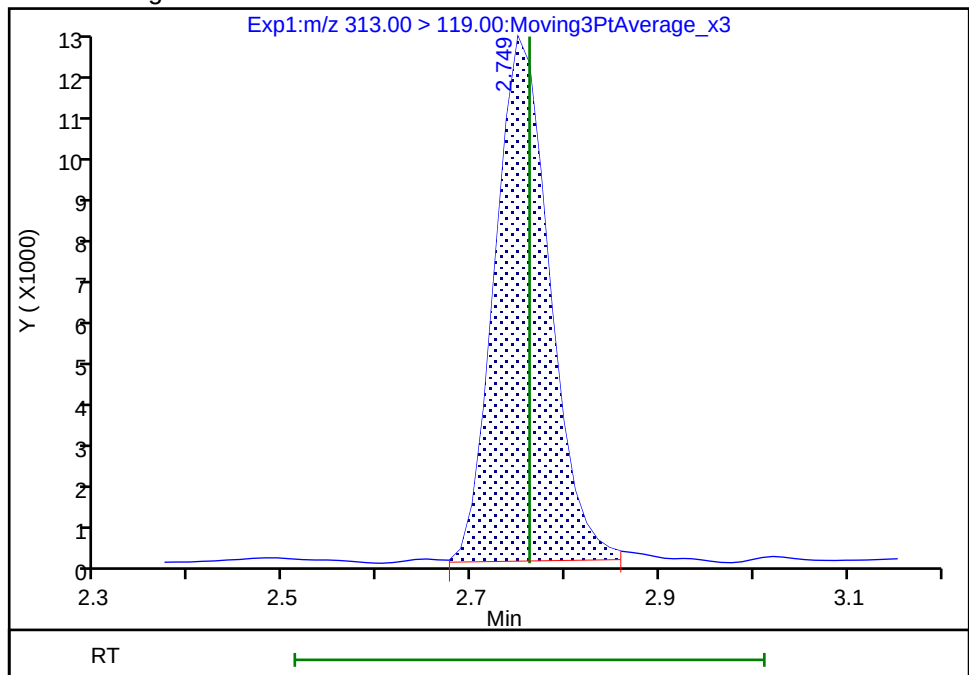
RT: 2.75
Area: 48713
Amount: 0.496106
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 48548
Amount: 0.520042
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:59:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 260 of 978

11/21/2022
4:10 PM

Eurofins Burlington

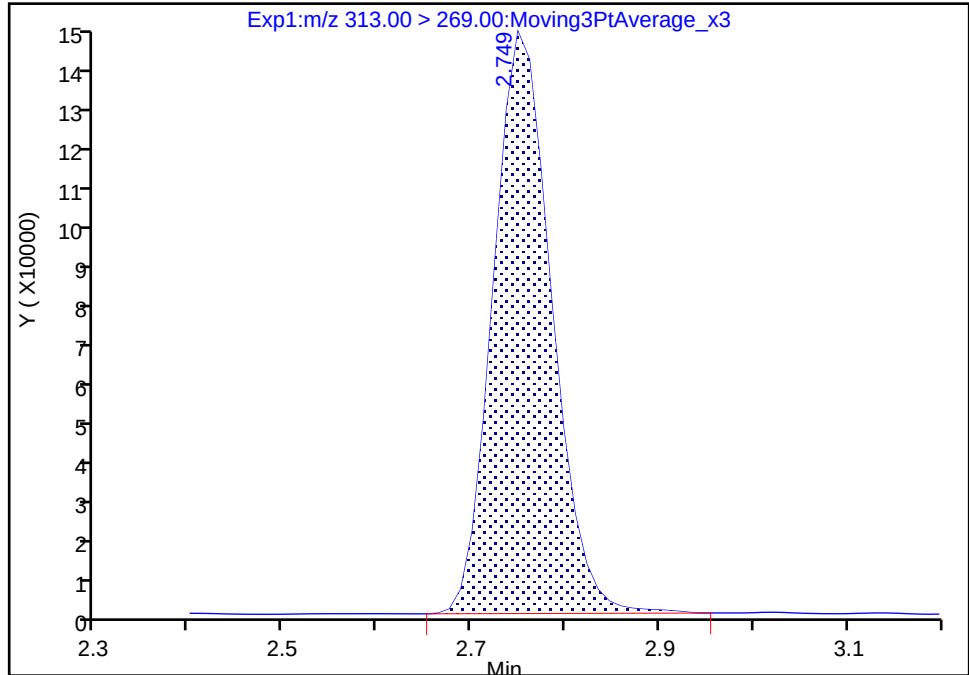
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

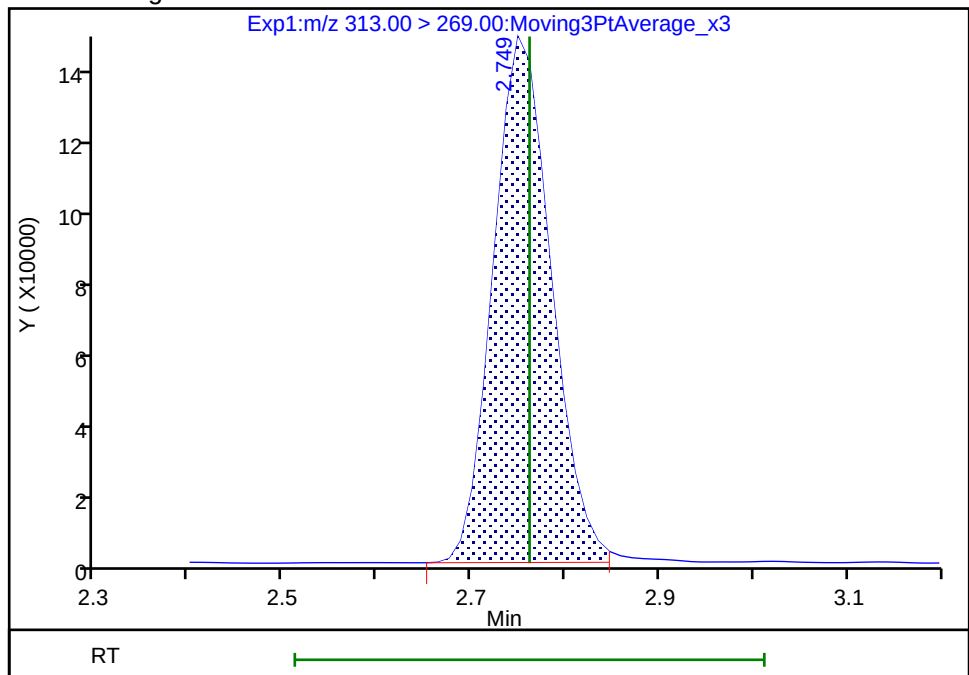
RT: 2.75
Area: 643337
Amount: 0.496106
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 637664
Amount: 0.520042
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 10:59:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 261 of 97811/21/2022
4:10 PM

Eurofins Burlington

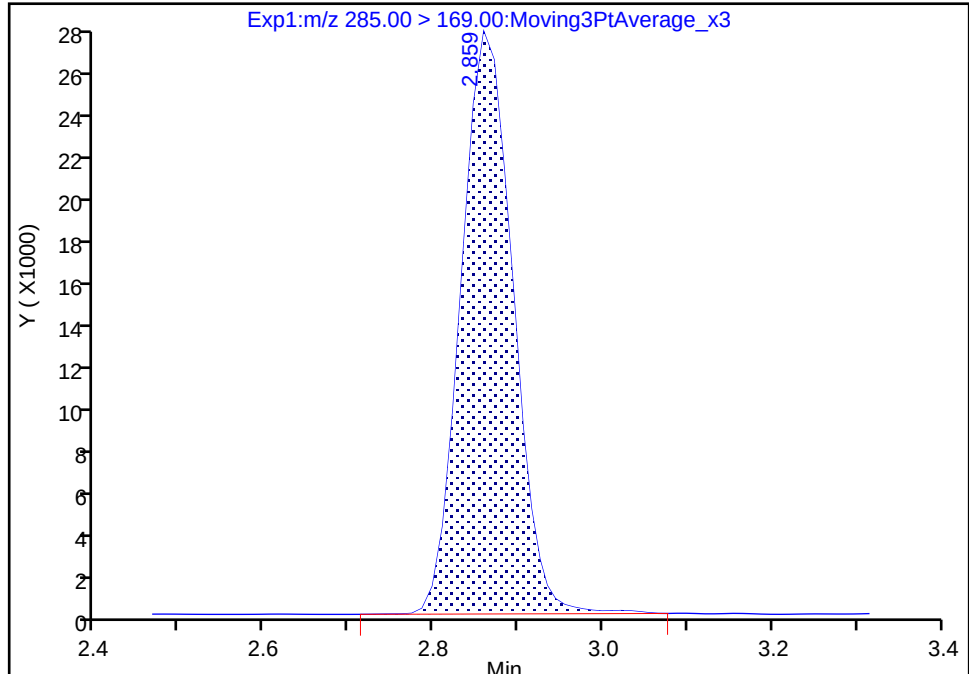
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

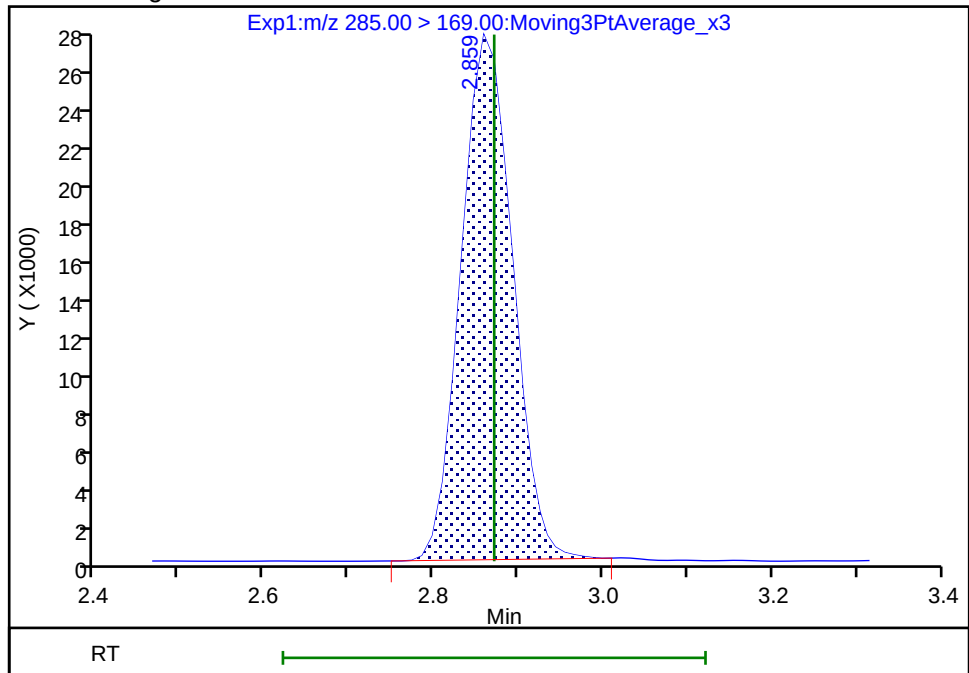
RT: 2.86
Area: 119243
Amount: 0.485451
Amount Units: ng/ml

Processing Integration Results



RT: 2.86
Area: 117835
Amount: 0.516355
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 262 of 978

11/21/2022
4:10 PM

Eurofins Burlington

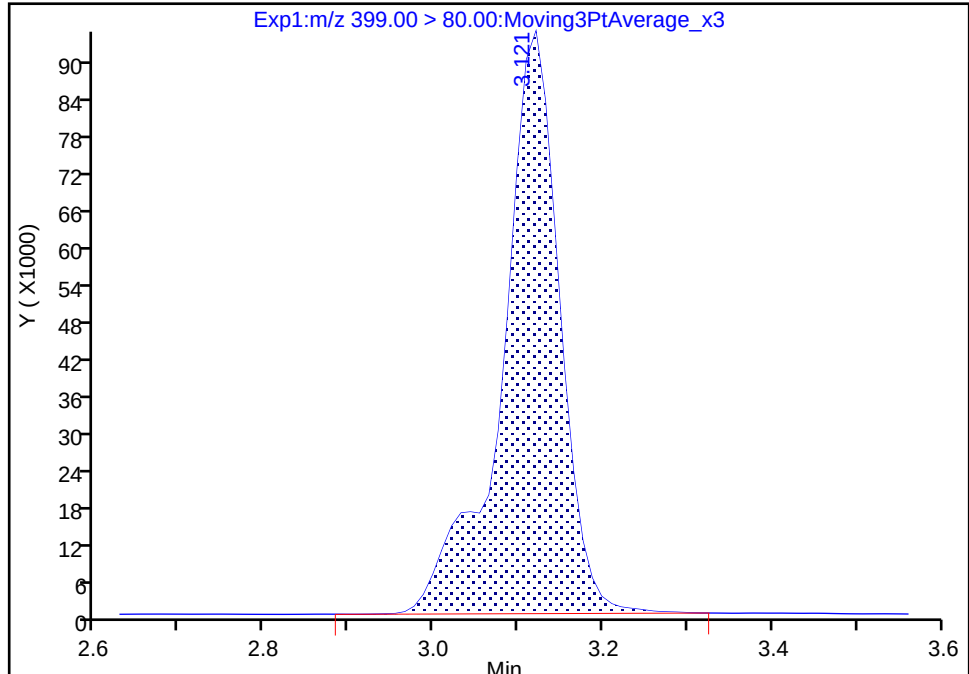
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

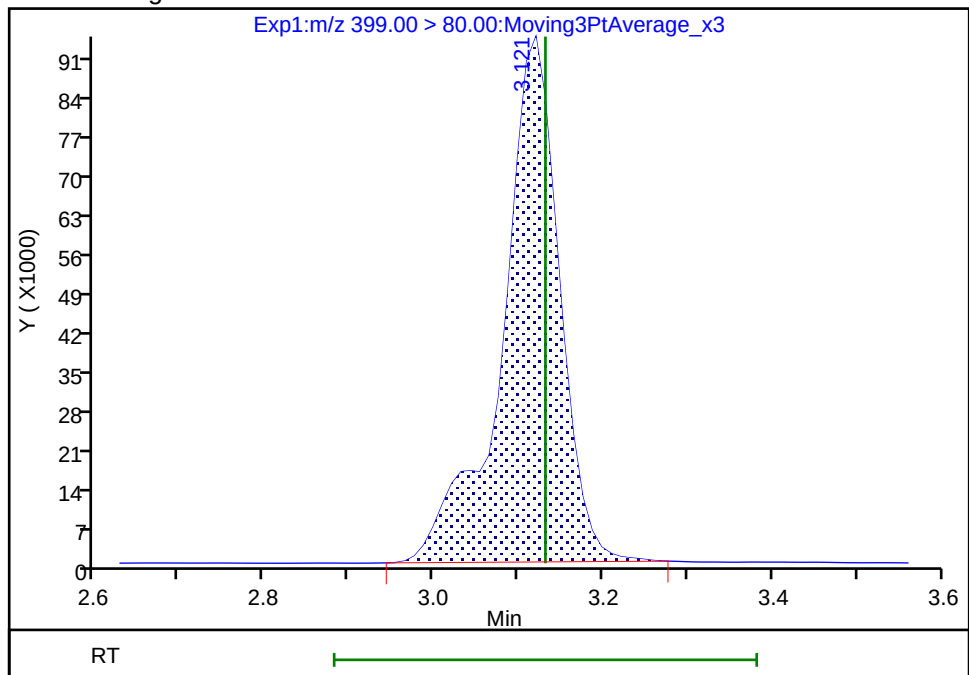
RT: 3.12
Area: 447846
Amount: 0.438911
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 445435
Amount: 0.469708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 263 of 978

11/21/2022
4:10 PM

Eurofins Burlington

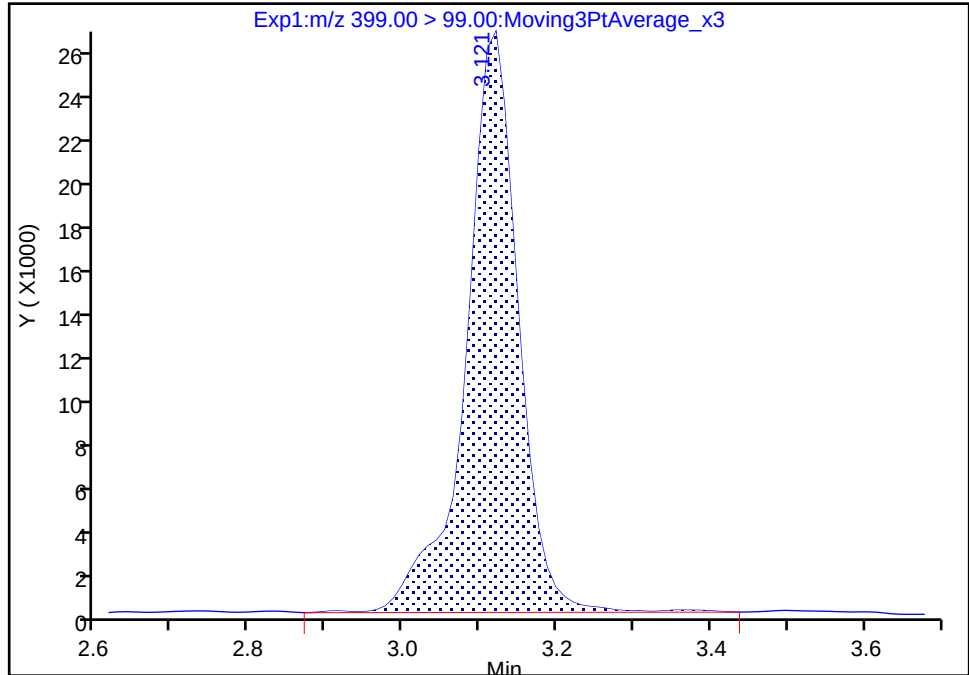
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

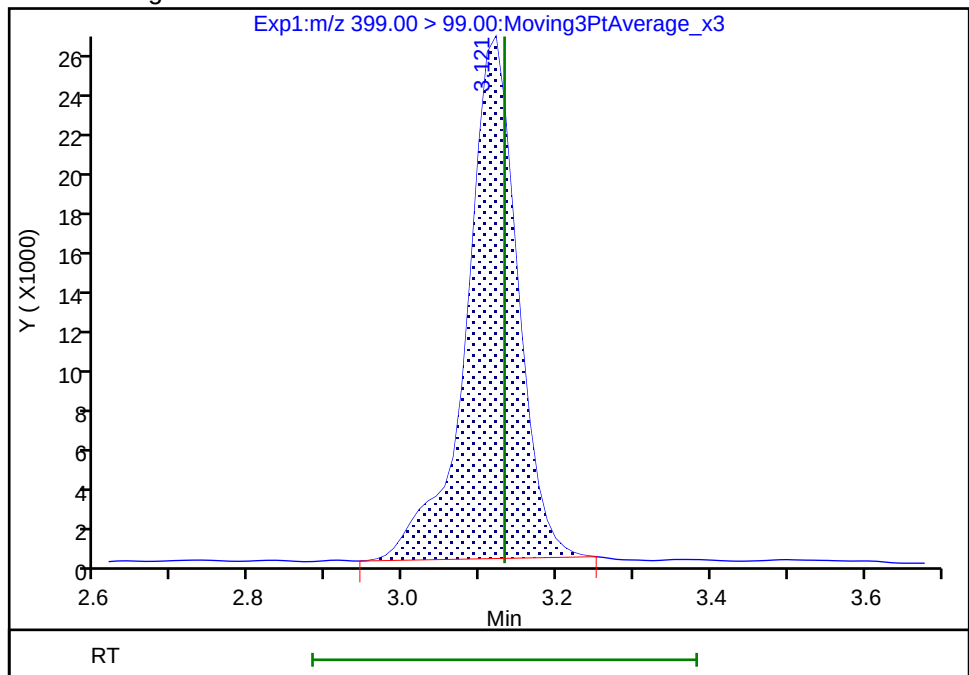
RT: 3.12
Area: 124098
Amount: 0.438911
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 120650
Amount: 0.469708
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 264 of 97811/21/2022
4:10 PM

Eurofins Burlington

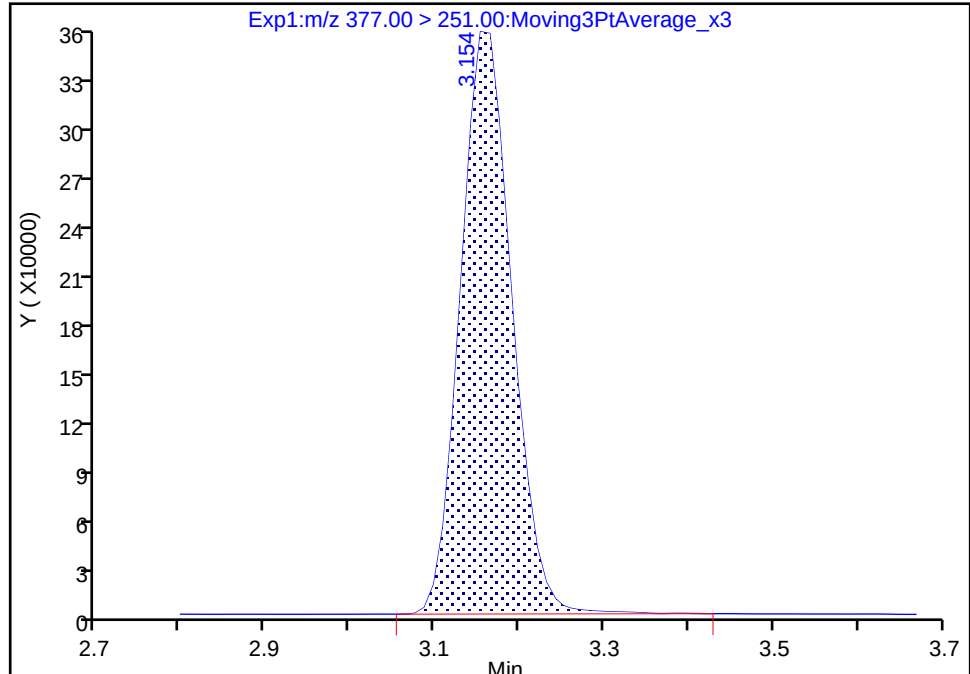
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

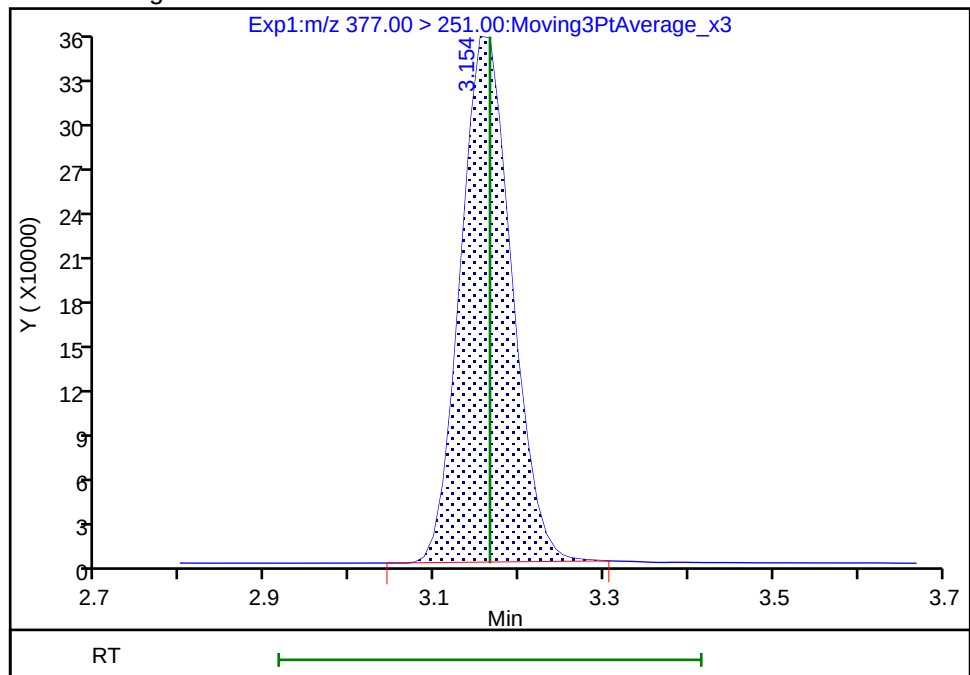
RT: 3.15
Area: 1482607
Amount: 0.469463
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 1469288
Amount: 0.485151
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 265 of 978

11/21/2022
4:10 PM

Eurofins Burlington

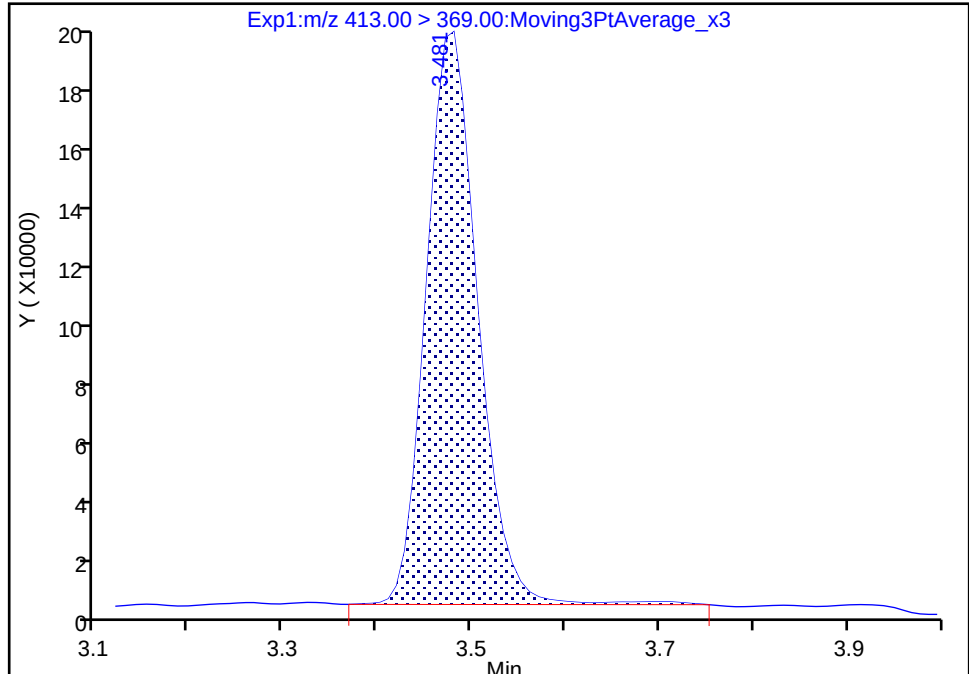
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

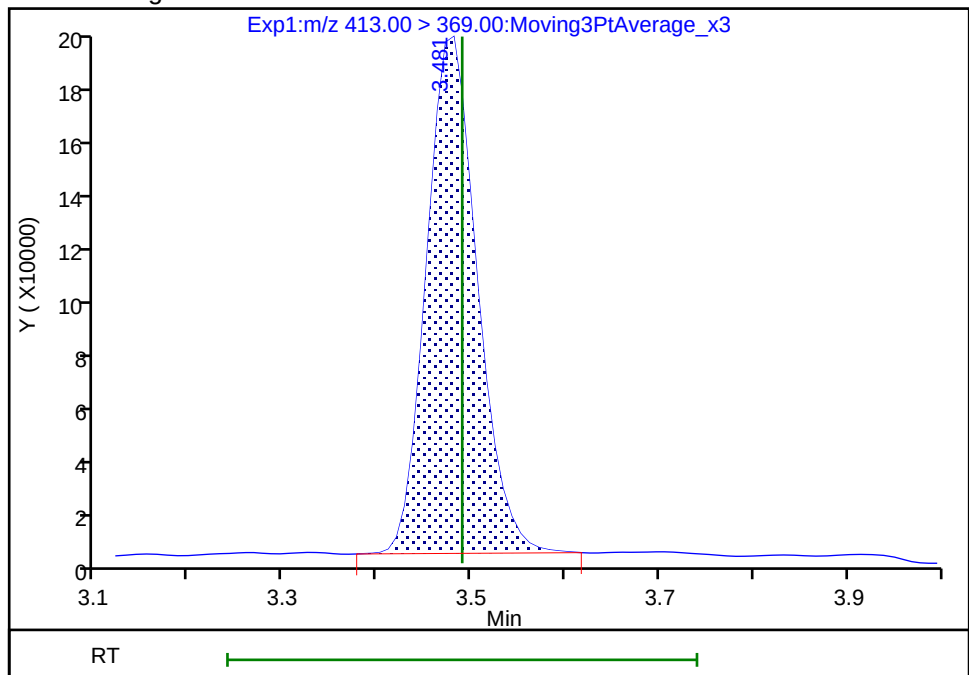
RT: 3.48
Area: 716896
Amount: 0.509854
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 706257
Amount: 0.524659
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 266 of 978

11/21/2022
4:10 PM

Eurofins Burlington

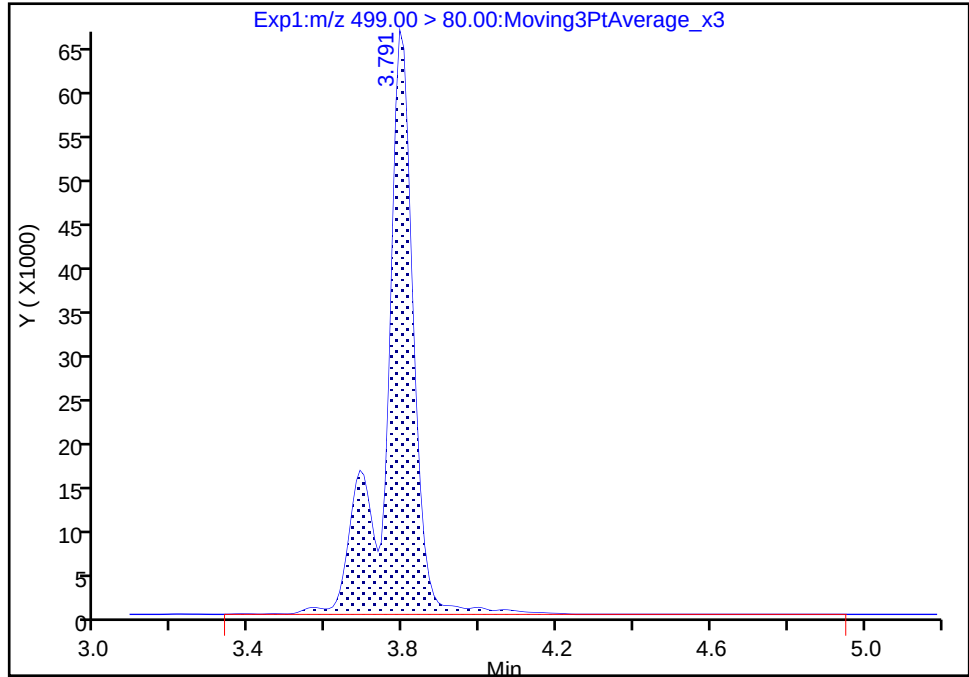
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

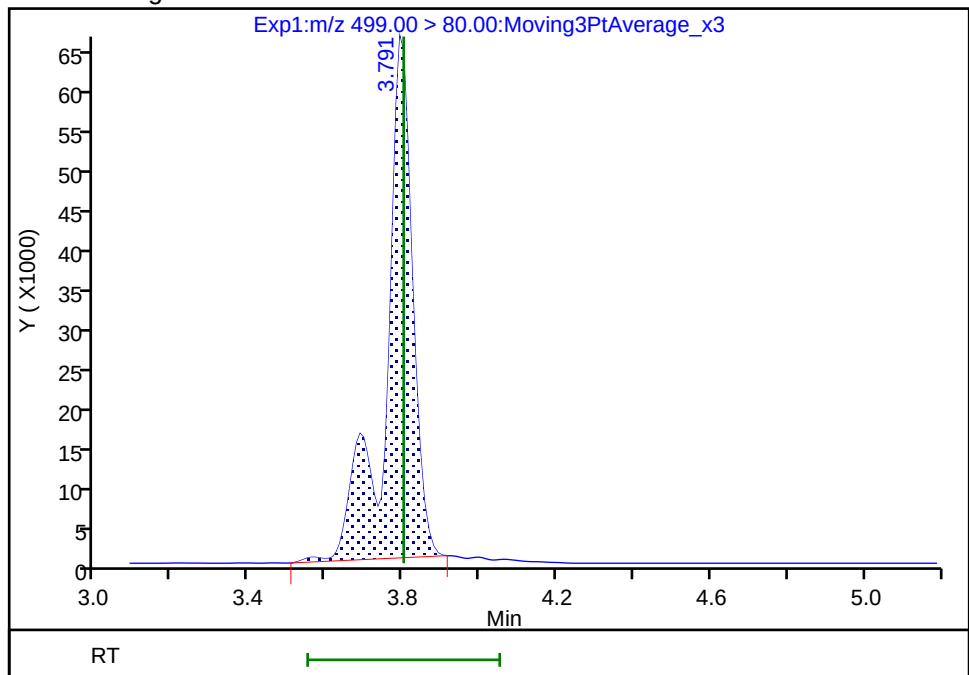
RT: 3.79
Area: 337489
Amount: 0.466132
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 317113
Amount: 0.479049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:00:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 267 of 978

11/21/2022
4:10 PM

Eurofins Burlington

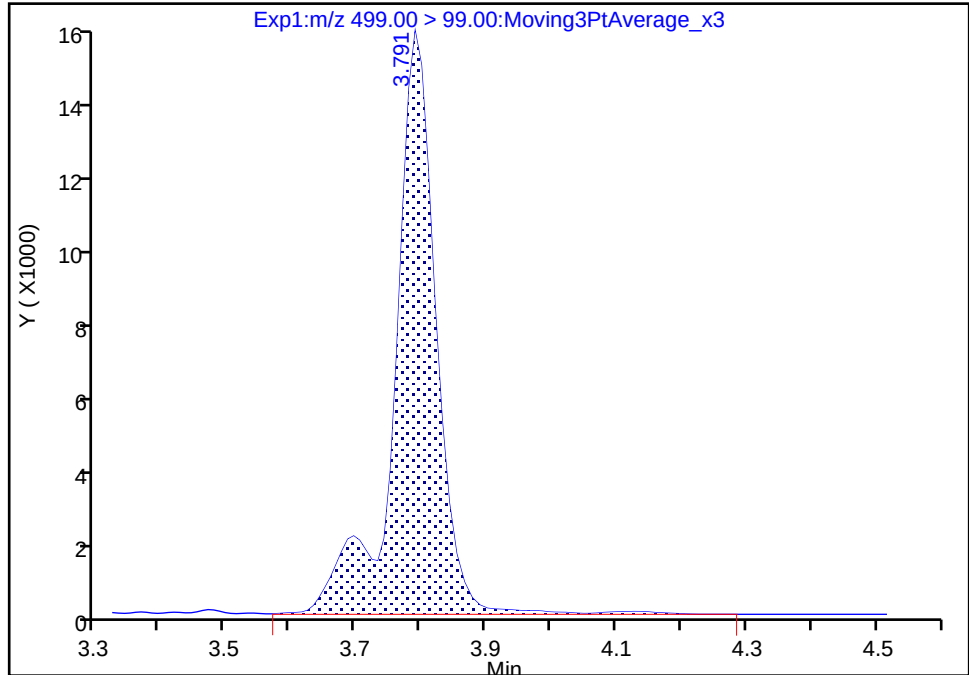
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

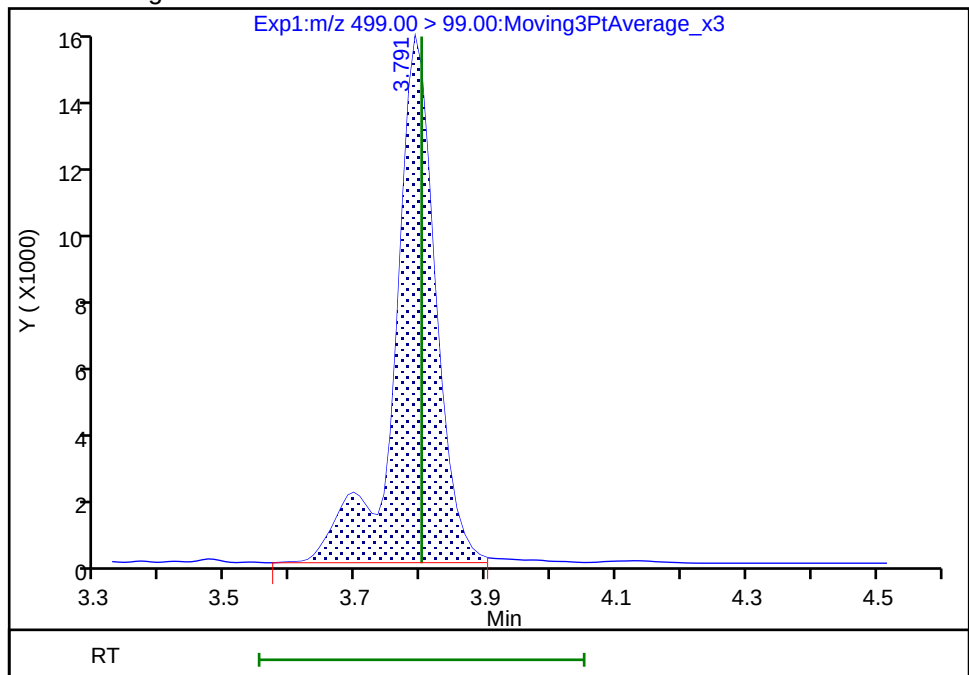
RT: 3.79
Area: 67436
Amount: 0.466132
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 66026
Amount: 0.479049
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

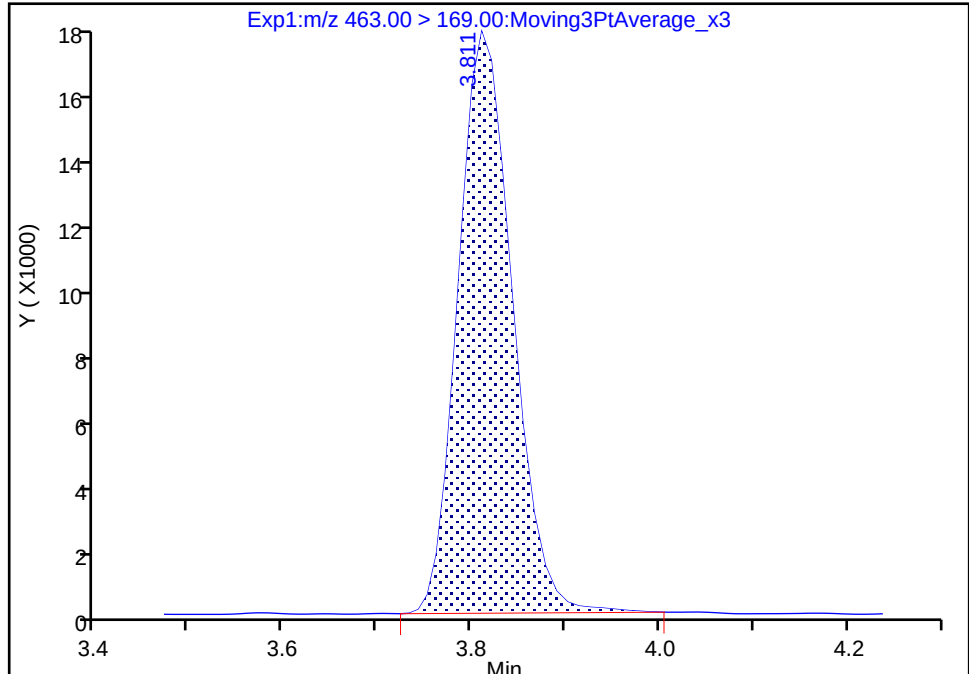
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

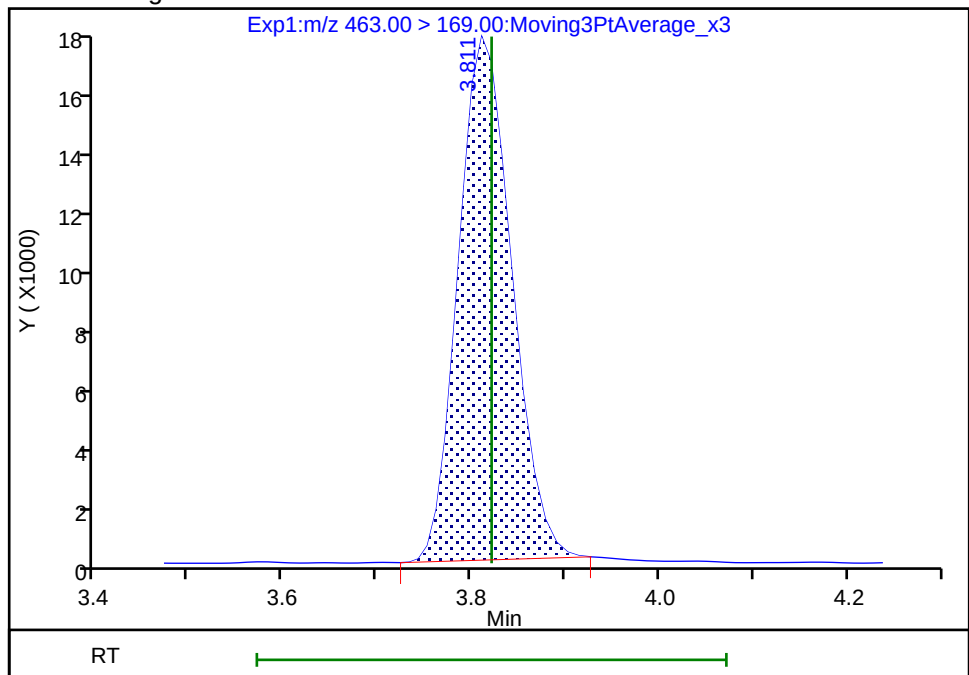
RT: 3.81
Area: 71153
Amount: 0.471853
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 69825
Amount: 0.511046
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 269 of 978

11/21/2022
4:10 PM

Eurofins Burlington

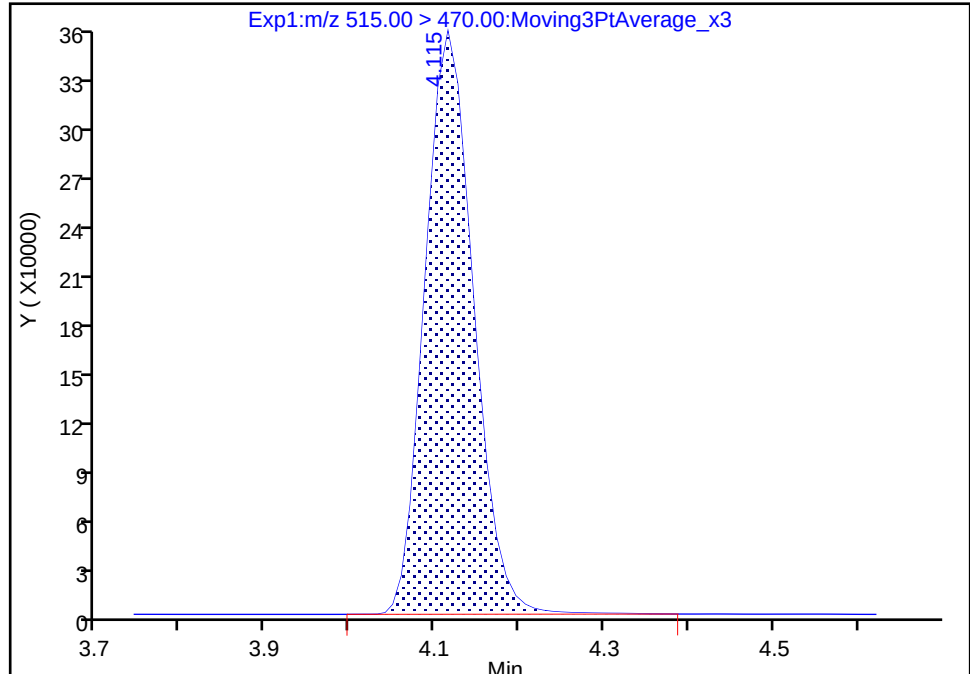
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

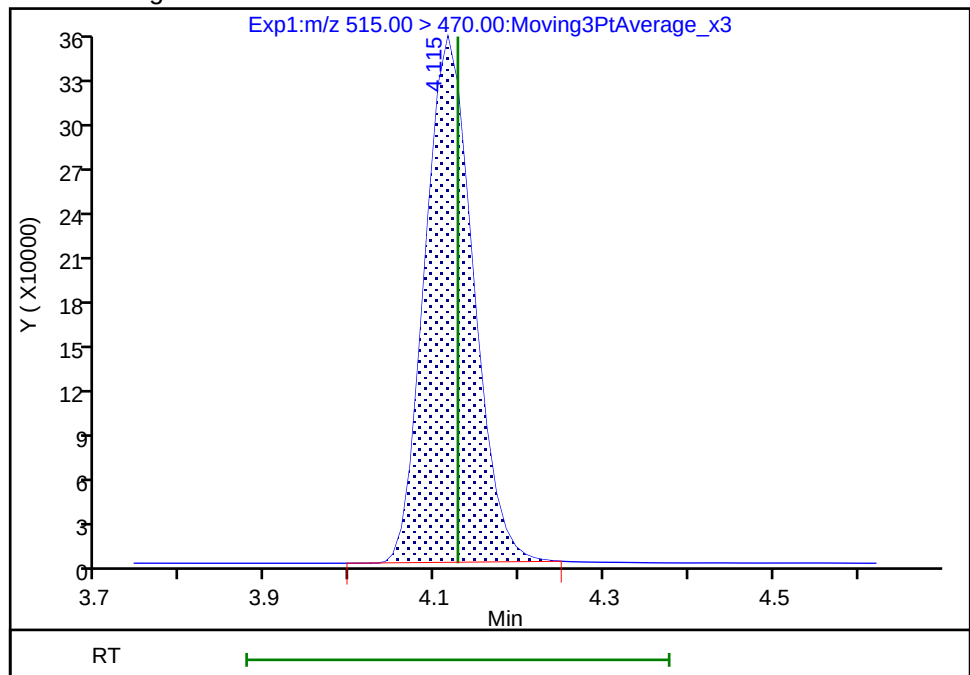
RT: 4.12
Area: 1412117
Amount: 1.220590
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 1399706
Amount: 1.209492
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

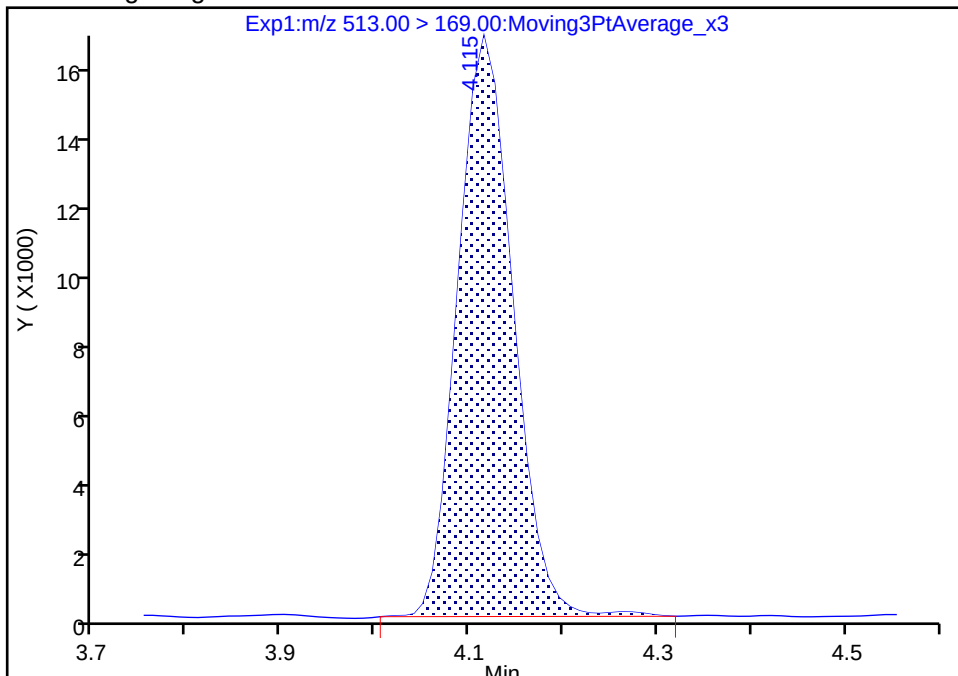
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

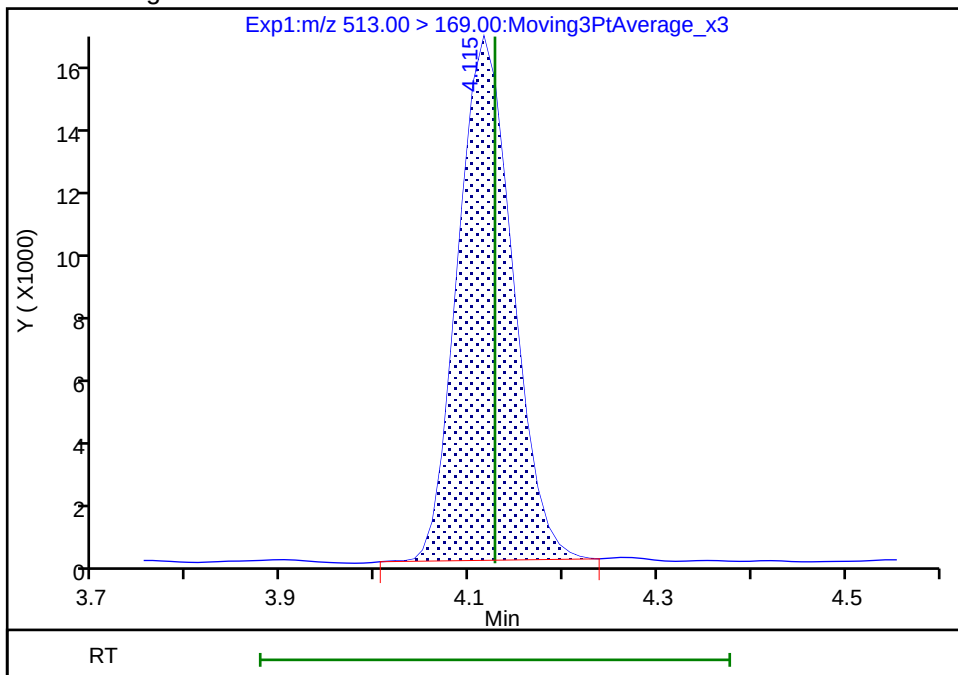
RT: 4.12
Area: 67642
Amount: 0.491835
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 66692
Amount: 0.521947
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 271 of 978

11/21/2022
4:10 PM

Eurofins Burlington

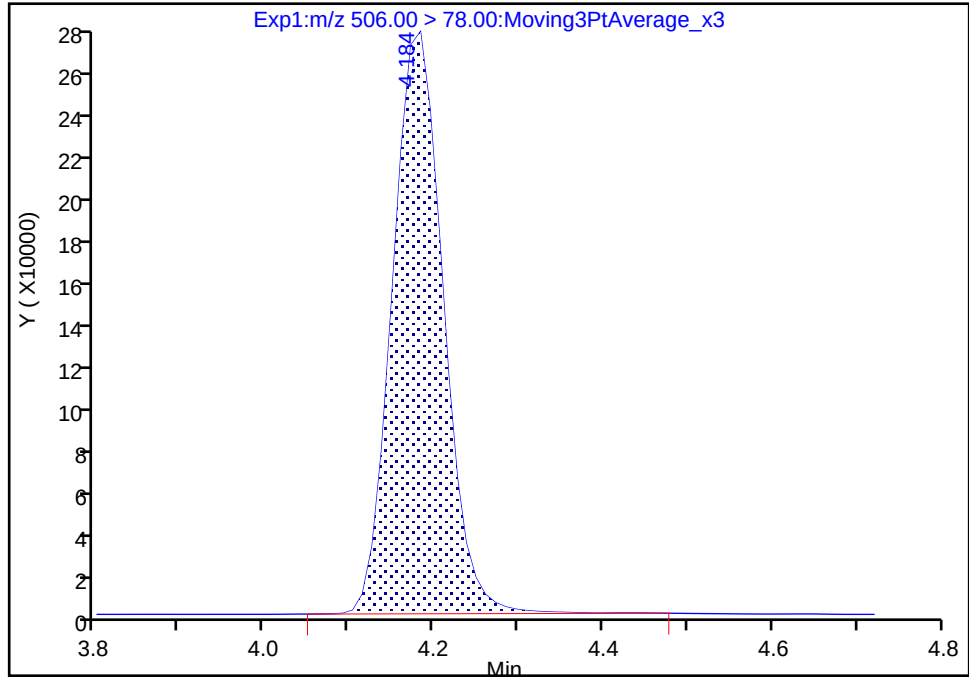
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

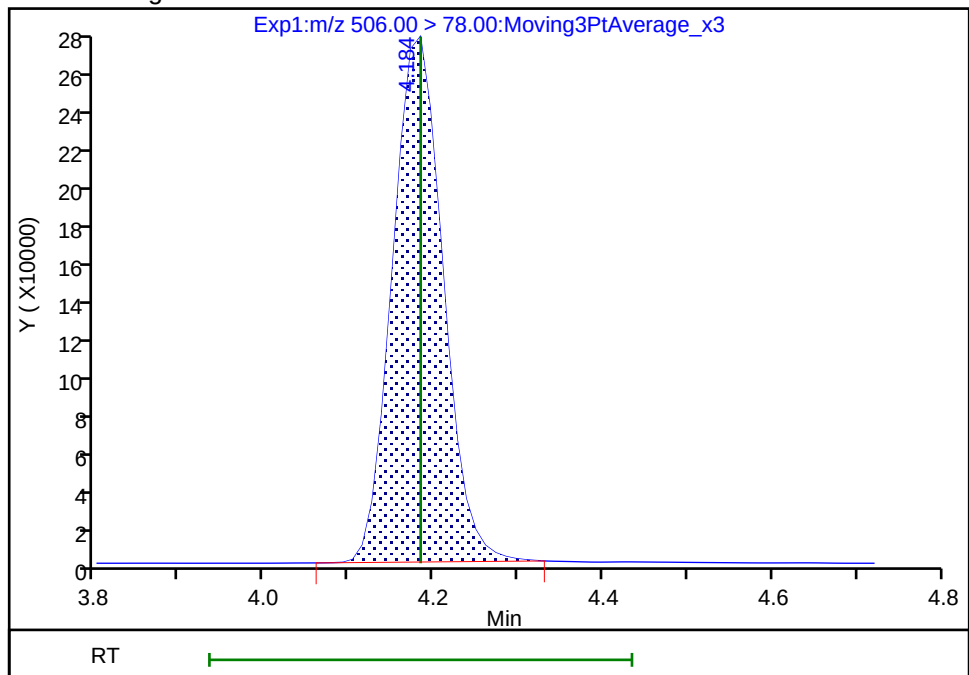
RT: 4.18
Area: 1137475
Amount: 1.210904
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 1128680
Amount: 1.197353
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 272 of 978

11/21/2022
4:10 PM

Eurofins Burlington

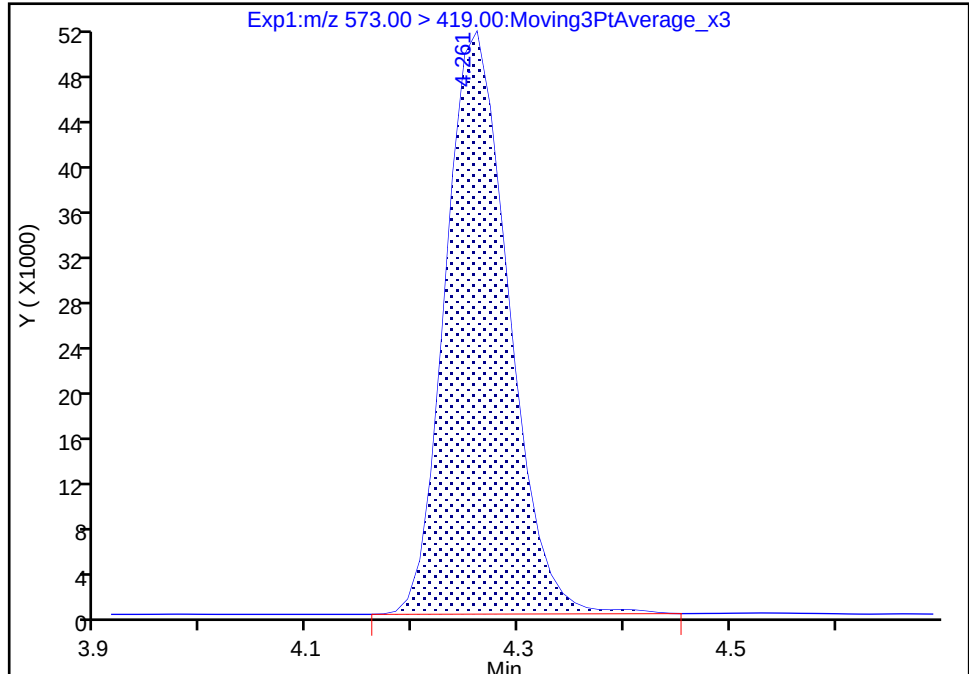
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

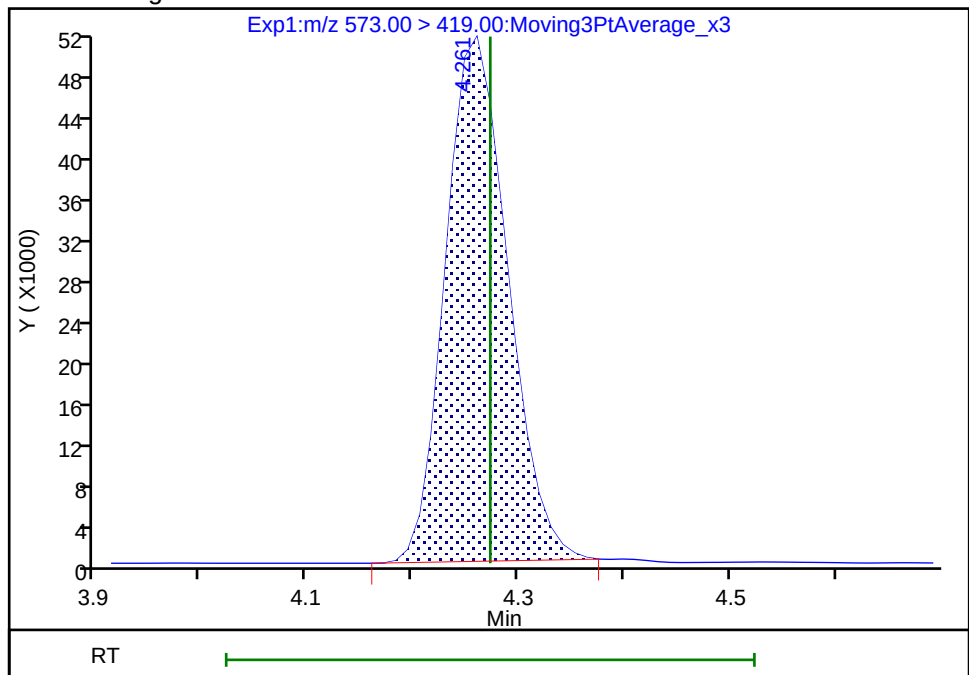
RT: 4.26
Area: 213568
Amount: 1.296406
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 210264
Amount: 1.290291
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:01:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 273 of 978

11/21/2022
4:10 PM

Eurofins Burlington

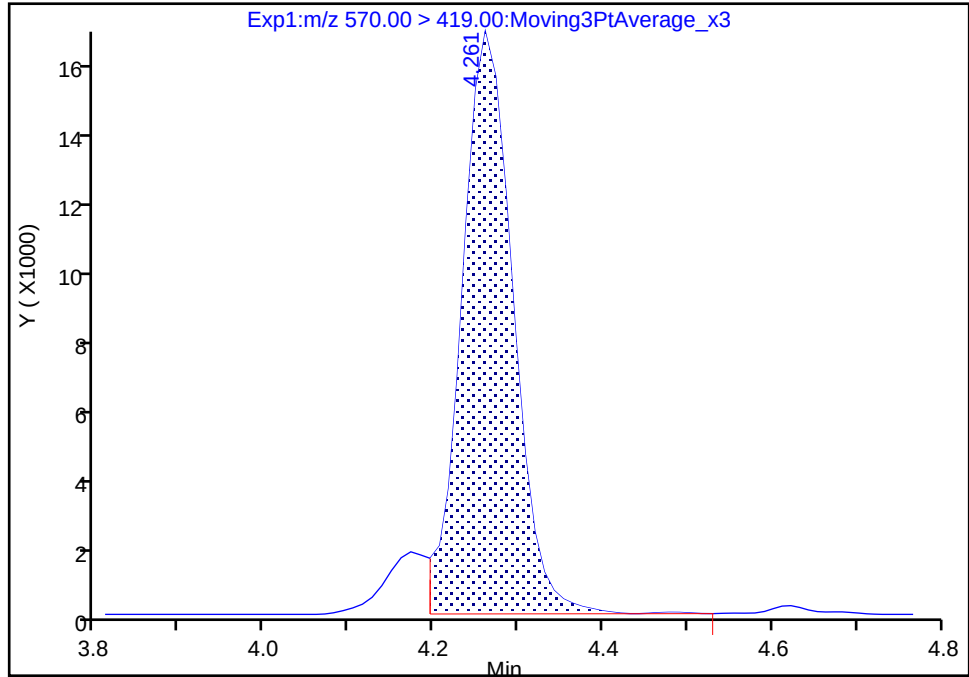
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

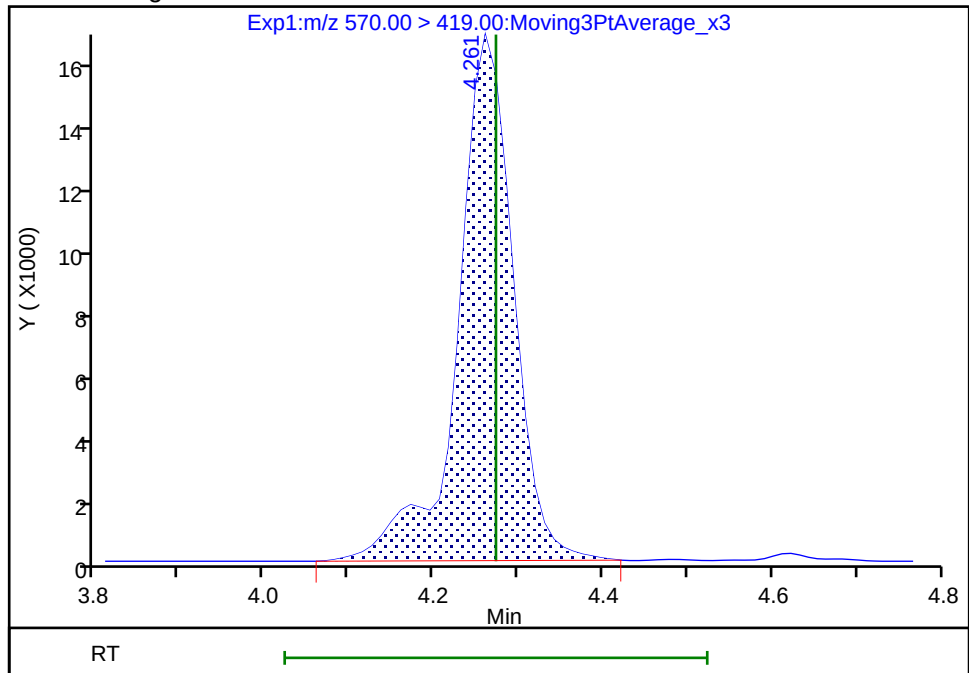
RT: 4.26
Area: 68859
Amount: 0.447950
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 74732
Amount: 0.480401
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 274 of 978

11/21/2022
4:10 PM

Eurofins Burlington

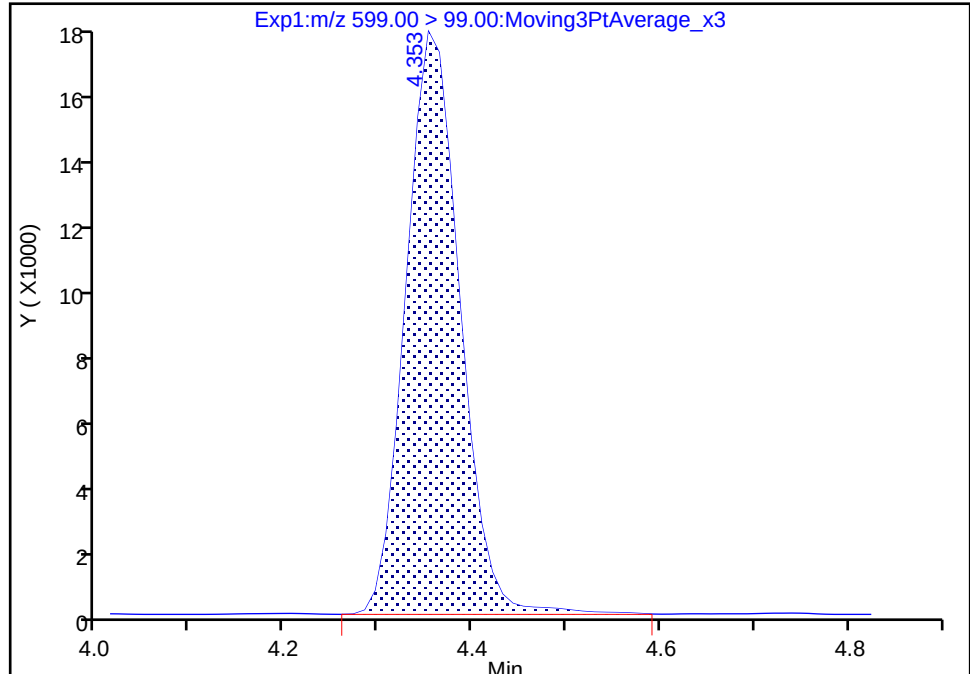
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

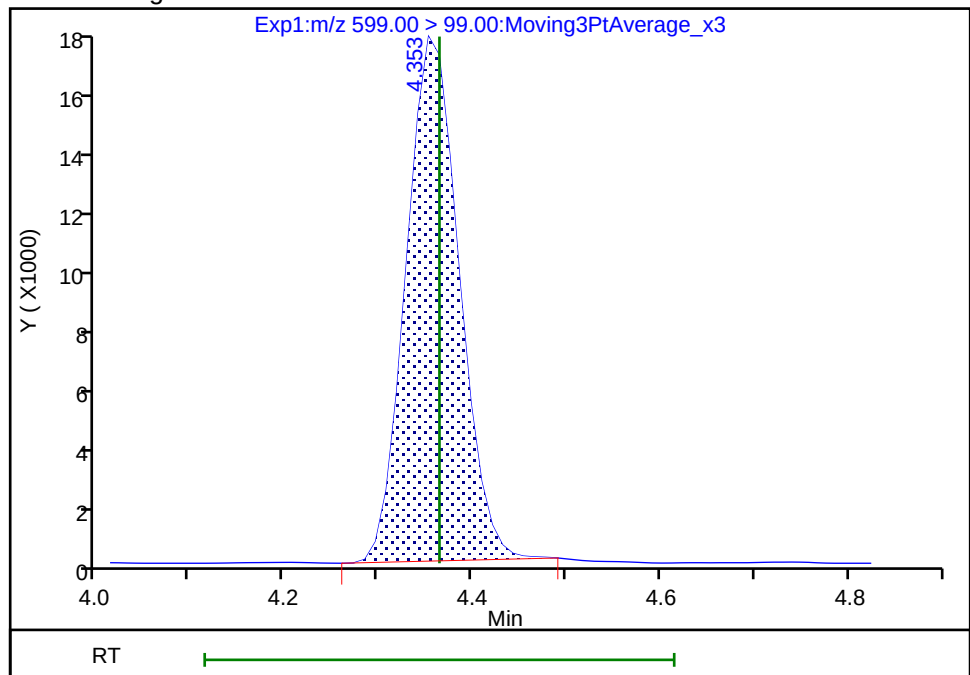
RT: 4.35
Area: 71044
Amount: 0.459384
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 69379
Amount: 0.487701
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 275 of 978

11/21/2022
4:10 PM

Eurofins Burlington

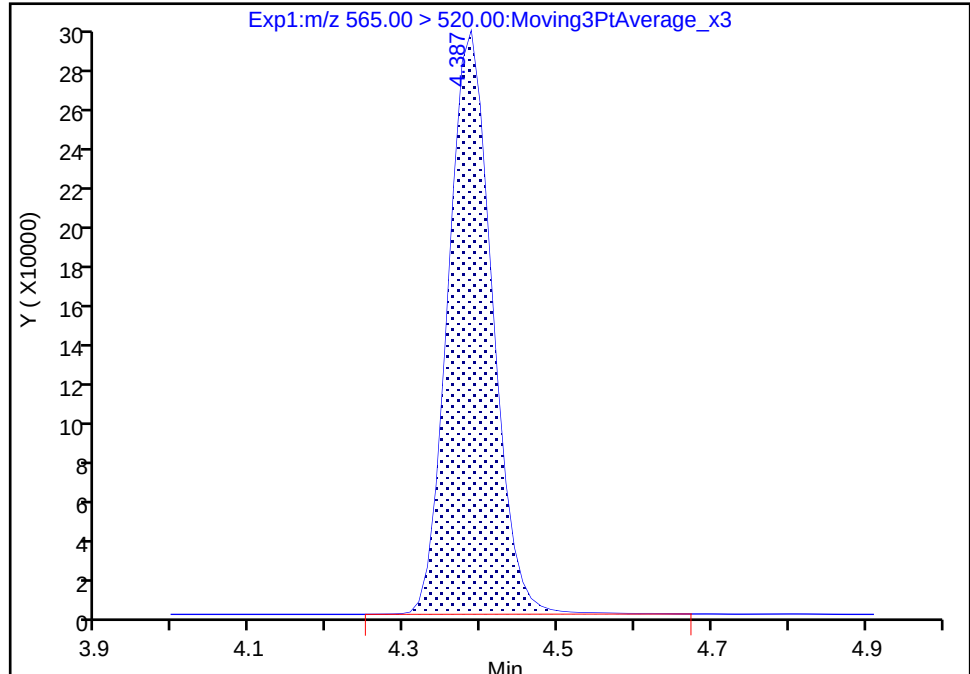
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

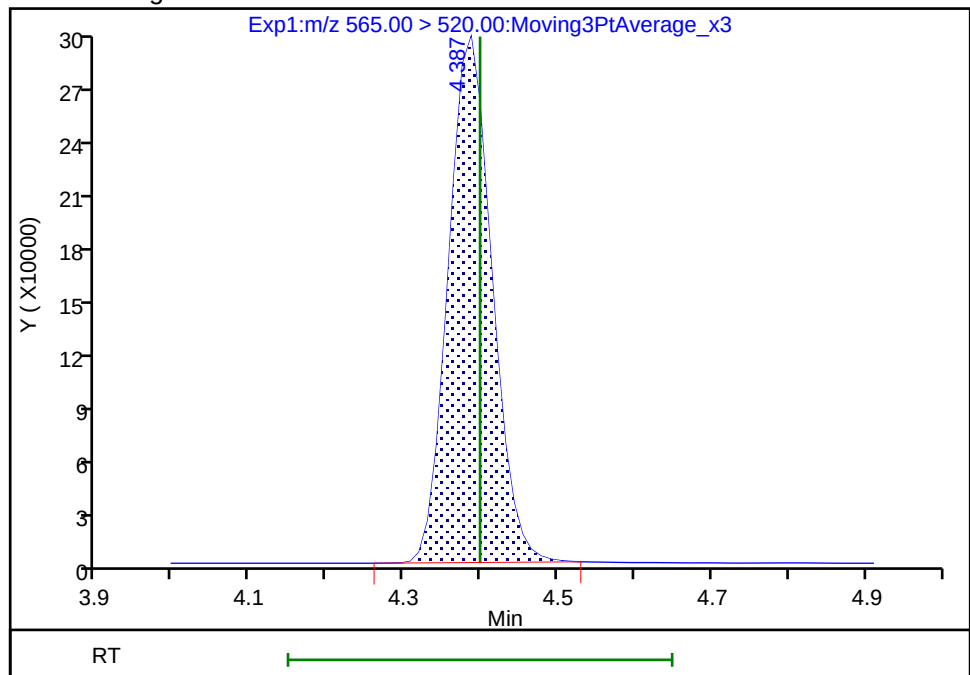
RT: 4.39
Area: 1176127
Amount: 1.229196
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 1168198
Amount: 1.232756
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 276 of 978

11/21/2022
4:10 PM

Eurofins Burlington

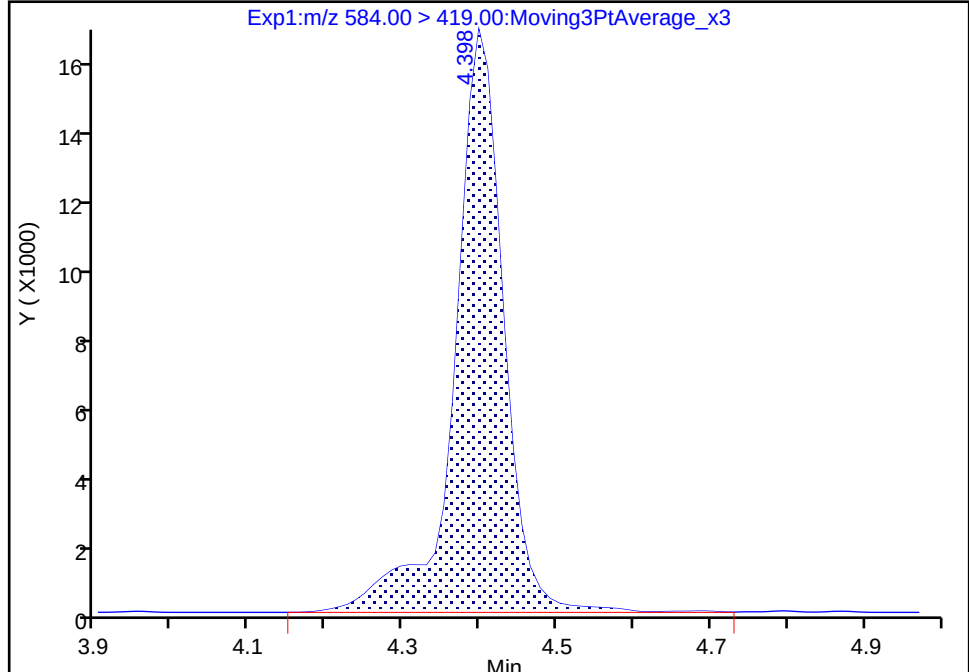
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

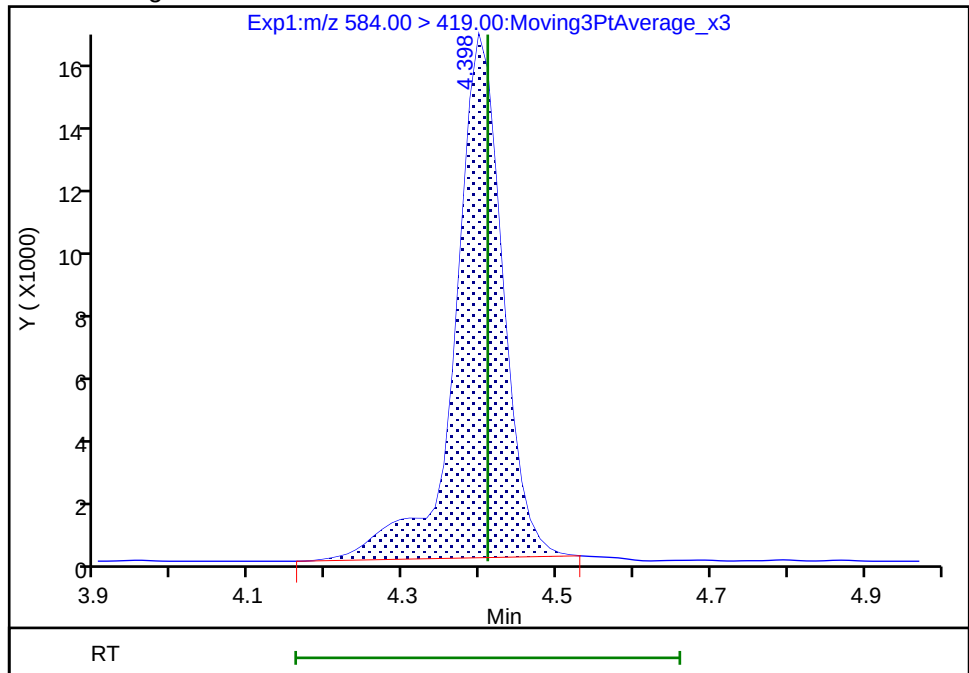
RT: 4.40
Area: 75119
Amount: 0.479292
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 72481
Amount: 0.478574
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 277 of 978

11/21/2022
4:10 PM

Eurofins Burlington

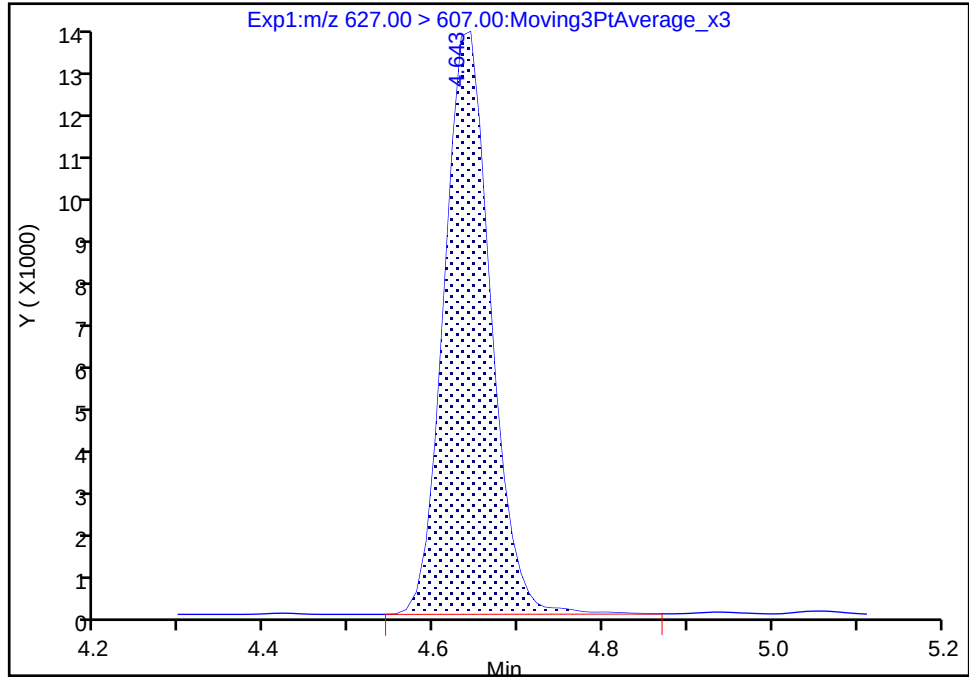
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

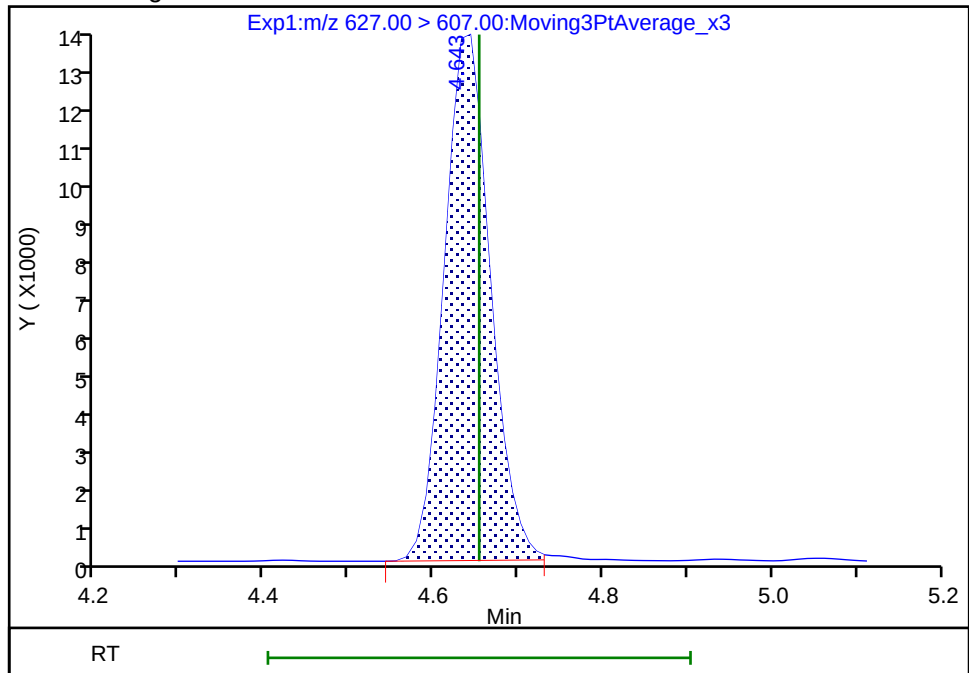
RT: 4.64
Area: 52328
Amount: 0.476508
Amount Units: ng/ml

Processing Integration Results



RT: 4.64
Area: 51685
Amount: 0.489644
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 278 of 978

11/21/2022
4:10 PM

Eurofins Burlington

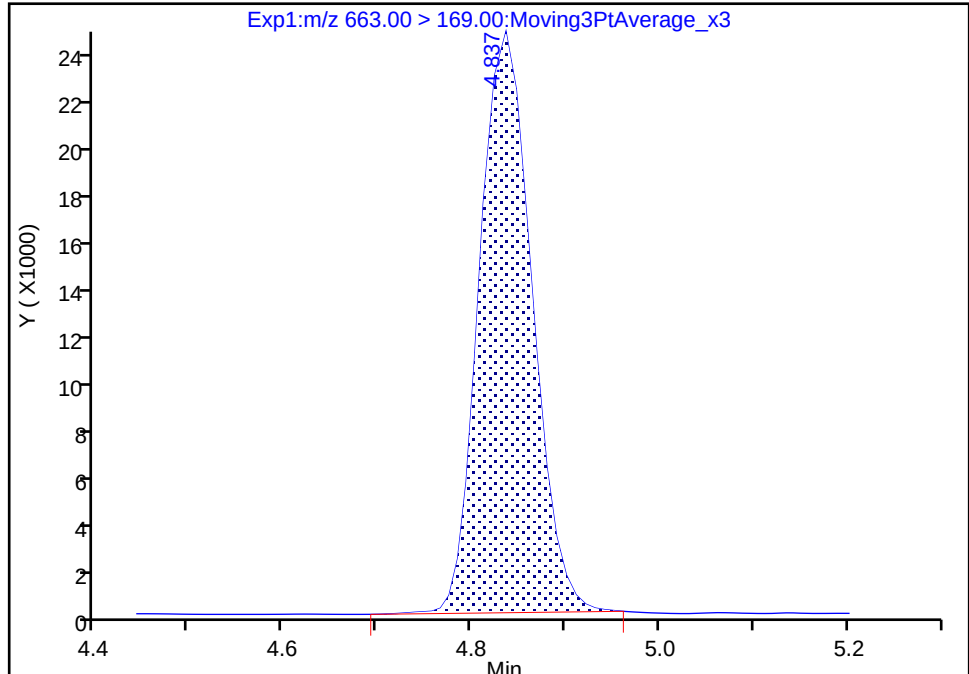
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

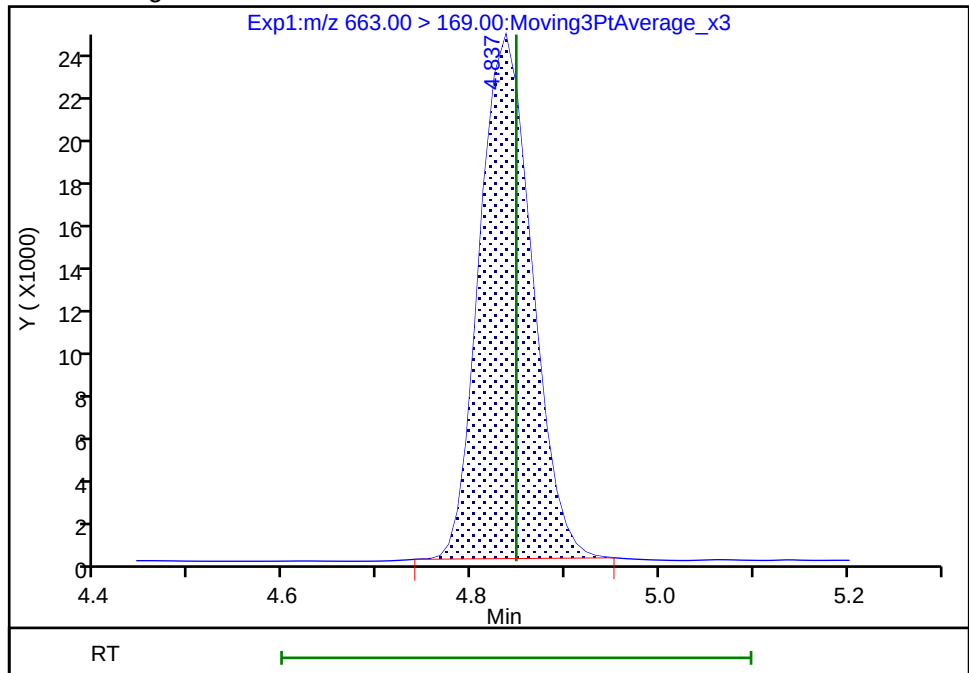
RT: 4.84
Area: 95400
Amount: 0.501360
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 94668
Amount: 0.520491
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 279 of 978

11/21/2022
4:10 PM

Eurofins Burlington

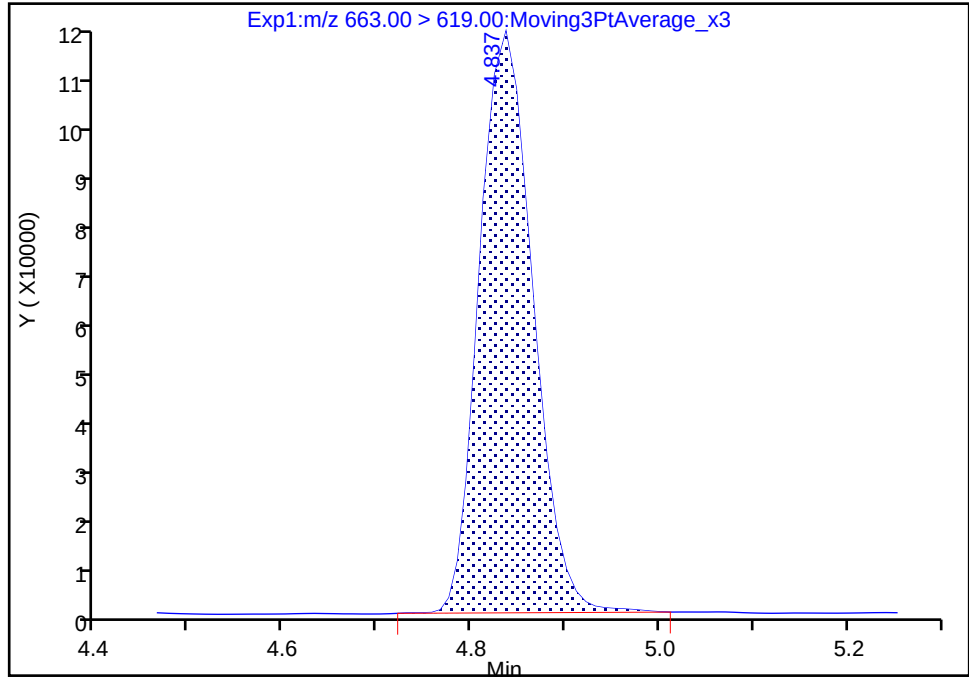
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

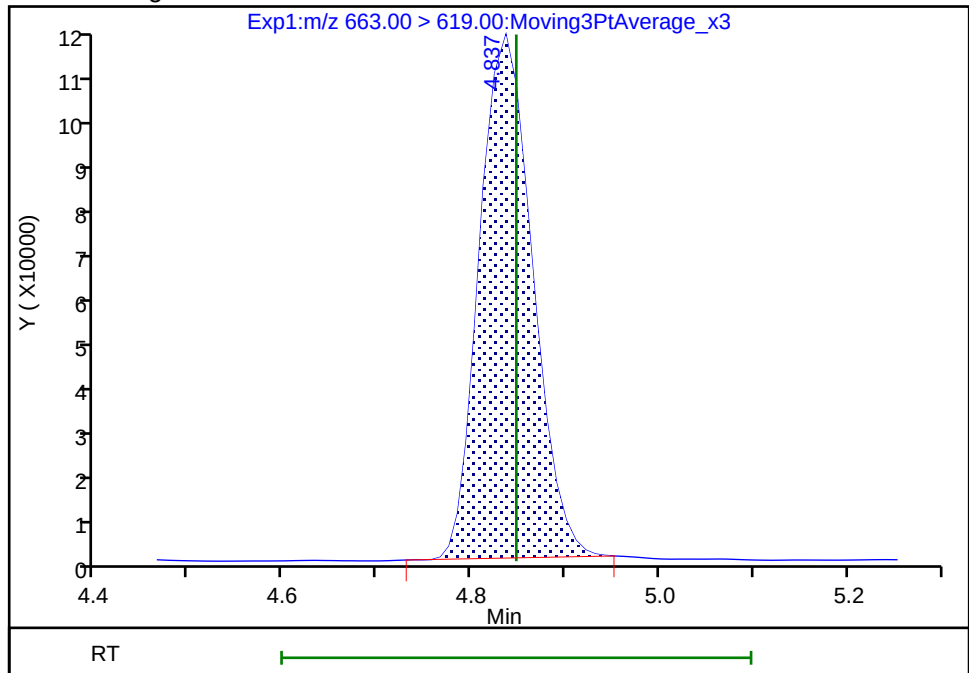
RT: 4.84
Area: 449238
Amount: 0.501360
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 442633
Amount: 0.520491
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 280 of 97811/21/2022
4:10 PM

Eurofins Burlington

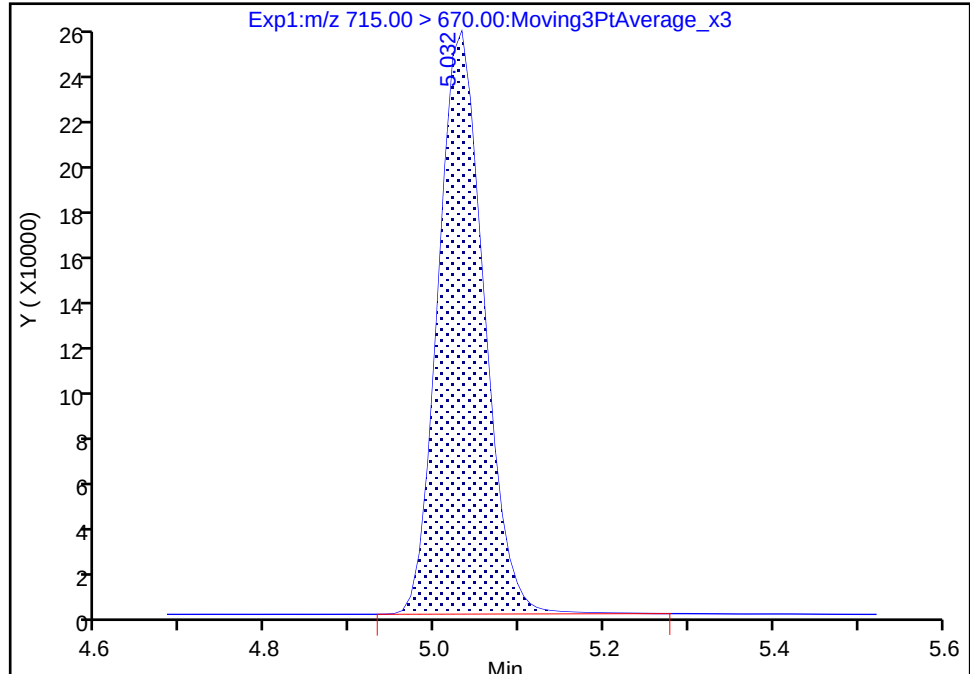
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

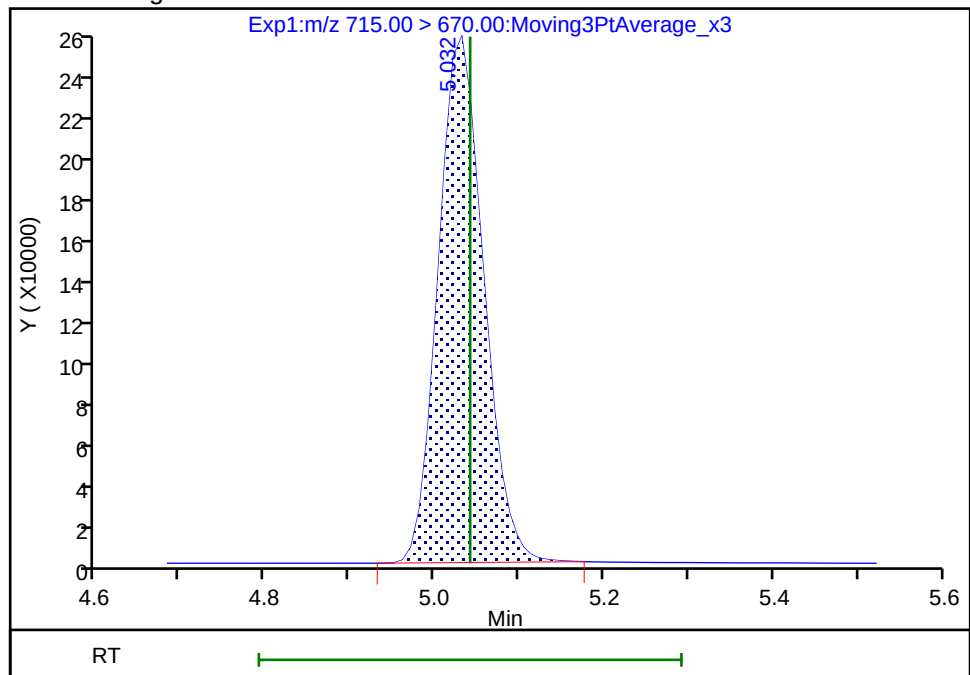
RT: 5.03
Area: 966136
Amount: 1.213311
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 961015
Amount: 1.217029
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:02:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

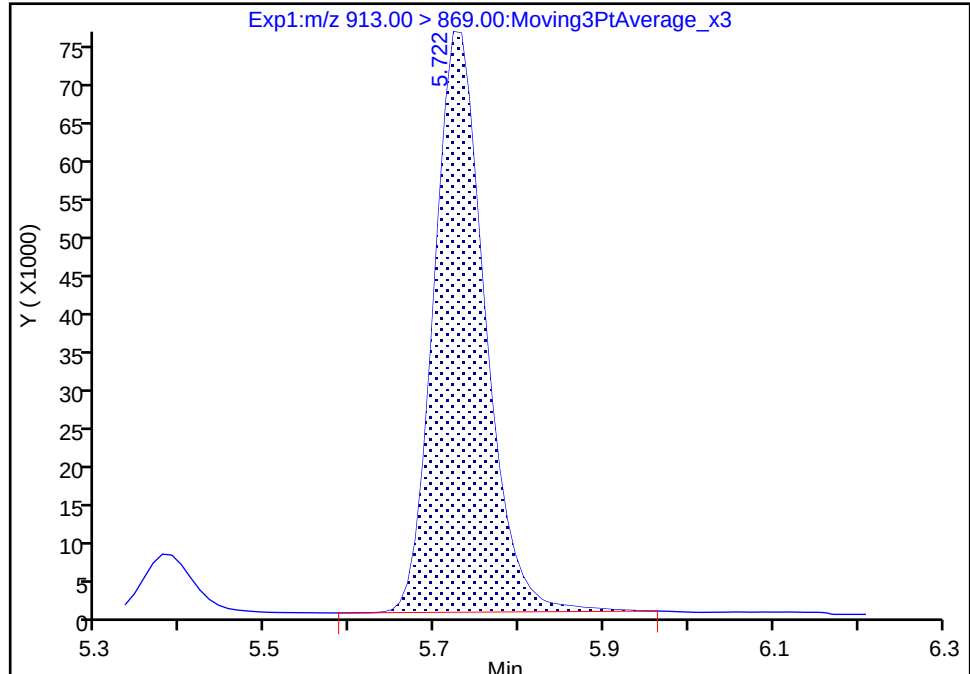
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL07.d
Injection Date: 14-Sep-2022 10:50:01 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

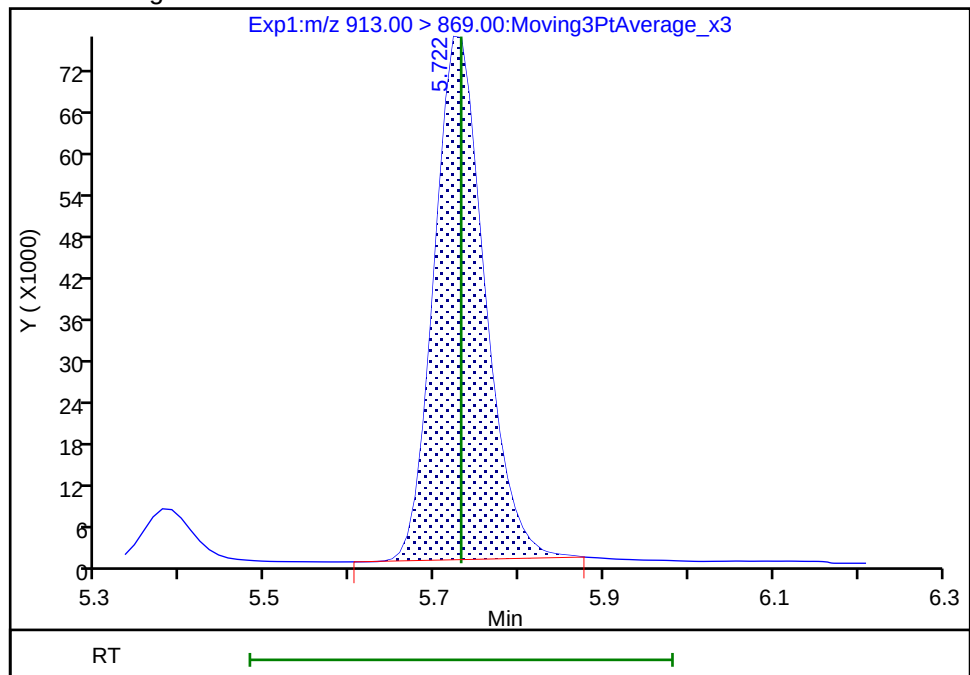
RT: 5.72
Area: 321123
Amount: 0.510824
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 315761
Amount: 0.526421
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:03:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 282 of 978

11/21/2022
4:10 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 14-Sep-2022 10:58:11 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0052438-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:37 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 11:11:20

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										M
217.00 > 172.00	2.093	2.093	0.0	0.600	1733241	1.25		99.6	7546	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.102	0.0	1.004	1350105	0.9617		96.2	160	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.413	0.0	0.691	1357133	1.24		99.1	3180	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.413	0.0	1.000	1183868	1.02		102	41.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.426	0.0	0.695	1290024	1.16		100	412335	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	1092451	0.8540	Target=2.15	96.6	1313	
298.90 > 99.00	2.426	2.426	0.0	1.000	499968		2.19(1.07-3.22)	96.6	470	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.725	2.725	0.0	0.781	126053	1.25		107	142	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.725	0.0	1.000	264747	0.9038		96.8	1491	
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.791	1428554	1.28		103	2383	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.000	1133473	0.9135	Target=13.89	91.4	274	M
313.00 > 119.00	2.762	2.762	0.0	1.000	82920		13.67(6.95-20.84)	91.4	166	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.774	2.774	0.0	0.886	987093	0.8902	Target=3.05	94.9	1289	
349.00 > 99.00	2.762	2.774	-0.012	0.882	328620		3.00(1.53-4.58)	94.9	831	
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.871	2.871	0.0	1.000	225202	0.9681		96.8	1568	

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	2.871	2.871	0.0	0.823	266188	1.27		102	977	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.132	0.0	1.000	1122360	0.9058	Target=4.00	90.6	339	
363.00 > 169.00	3.132	3.132	0.0	1.000	298108		3.76(2.00-6.00)	90.6	728	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.132	0.0	0.897	1389781	1.27		102	2578	
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.132	0.0	0.897	955365	1.21		102	2677	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.132	3.132	0.0	1.000	787731	0.8382	Target=3.63	92.1	1358	M
399.00 > 99.00	3.132	3.132	0.0	1.000	218855		3.60(1.82-5.45)	92.1	390	M
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.833	2672768	0.9363	Target=3.03	99.4	3518	M
377.00 > 85.00	3.165	3.165	0.0	0.833	861495		3.10(1.52-4.55)	99.4	825	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.473	3.473	0.0	0.914	698486	0.9653	Target=5.20	101	2822	
449.00 > 99.00	3.473	3.473	0.0	0.914	131406		5.32(2.60-7.80)	101	723	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.481	3.481	0.0	1.000	228690	0.9201		97.1	452	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.481	3.481	0.0	0.998	162008	1.20		101	649	
D 14 13C4 PFOA										
417.00 > 372.00	3.490	3.490	0.0	1.000	1468592	1.26		100	2768	
* 62 13C2 PFOA										
415.00 > 370.00	3.490	3.490	0.0		1426342	1.25			3831	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.490	3.490	0.0	1.000	1256379	0.9448	Target=2.83	94.5	108	
413.00 > 169.00	3.490	3.490	0.0	1.000	460076		2.73(1.41-4.24)	94.5	970	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.801	3.801	0.0	1.000	540986	0.8671	Target=5.27	93.4	379	M
499.00 > 99.00	3.801	3.801	0.0	1.000	106181		5.09(2.64-7.91)	93.4	397	M
D 18 13C4 PFOS										
503.00 > 80.00	3.801	3.801	0.0	1.089	613698	1.18		98.4	2028	
20 Perfluorononanoic acid										
463.00 > 419.00	3.821	3.821	0.0	1.000	1126510	0.9542	Target=8.24	95.4	362	
463.00 > 169.00	3.821	3.821	0.0	1.000	145235		7.76(4.12-12.36)	95.4	1903	
D 19 13C5 PFNA										
468.00 > 423.00	3.821	3.821	0.0	1.095	1405937	1.22		97.7	2325	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.969	3.969	0.0	1.044	1163965	0.9298		99.8	4618	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.104	0.0	1.080	445191	0.9792	Target=2.56	102	1902	
549.00 > 99.00	4.093	4.104	-0.011	1.077	166689		2.67(1.28-3.84)	102	792	
D 23 13C2 PFDA										
515.00 > 470.00	4.127	4.127	0.0	1.183	1418378	1.27		101	2771	

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	4.127	4.127	0.0	1.000	1143089	0.9368	Target=9.84	93.7	577	
513.00 > 169.00	4.127	4.127	0.0	1.000	116316		9.83(4.92-14.76)	93.7	391	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.138	0.0	1.186	192985	1.21		101	715	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.138	0.0	1.000	187131	0.9369		97.8	564	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.184	0.0	1.199	1165740	1.28		102	1273	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.196	4.196	0.0	1.003	904121	0.9600		96.0	1784	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.273	4.273	0.0	1.224	194922	1.24		99.0	836	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	147179	1.02		102	555	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.365	0.0	1.148	321319	0.9068	Target=2.77	94.1	1401	M
599.00 > 99.00	4.365	4.365	0.0	1.148	123965		2.59(1.38-4.15)	94.1	935	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.399	4.399	0.0	1.260	1178414	1.29		103	1249	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.399	4.399	0.0	1.260	194646	1.25		99.6	605	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.399	4.399	0.0	1.000	952713	0.9688	Target=9.37	96.9	607	M
563.00 > 169.00	4.399	4.399	0.0	1.000	98371		9.68(4.68-14.05)	96.9	825	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	138699	0.9749		97.5	554	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.491	4.491	0.0	1.181	1499574	0.9207		97.7	3441	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	922842	0.9344	Target=7.06	93.4	142	M
613.00 > 169.00	4.633	4.633	0.0	1.000	132671		6.96(3.53-10.59)	93.4	983	
D 36 13C2 PFDaA										M
615.00 > 570.00	4.633	4.633	0.0	1.327	1155321	1.29		103	2370	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.653	0.0	1.124	104211	0.9610		99.7	763	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.803	4.803	0.0	1.264	140459	0.9751	Target=0.51	101	1413	M
699.00 > 99.00	4.803	4.803	0.0	1.264	270956		0.52(0.25-0.76)	101	1894	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	836789	0.9245	Target=5.01	92.4	136	M
663.00 > 169.00	4.848	4.848	0.0	1.046	172572		4.85(2.50-7.51)	92.4	694	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.041	5.041	0.0	1.000	119469	1.03	Target=0.95	103	1093	
713.00 > 219.00	5.031	5.041	-0.010	0.998	121288		0.99(0.47-1.42)	103	1036	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.041	5.041	0.0	1.445	935229	1.23		98.0	1725	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	5.388	5.388	0.0	1.000	788999	1.03	Target=4.99	103	184	
813.00 > 169.00	5.388	5.388	0.0	1.000	158271		4.99(2.49-7.48)	103	1070	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.388	5.388	0.0	1.544	1055967	1.25		100	3241	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	581778	0.9529	Target=5.05	95.3	159	M
913.00 > 169.00	5.731	5.731	0.0	1.064	118660		4.90(2.53-7.58)	95.3	506	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00034

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d

Injection Date: 14-Sep-2022 10:58:11

Instrument ID: LC812

Lims ID: ICIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

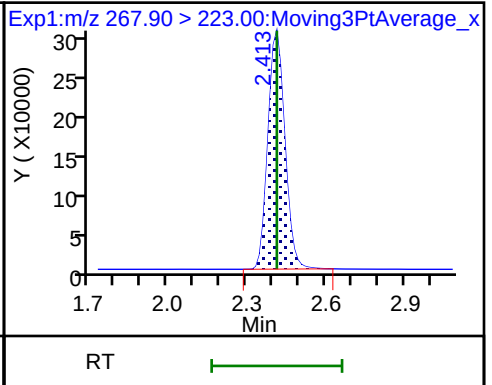
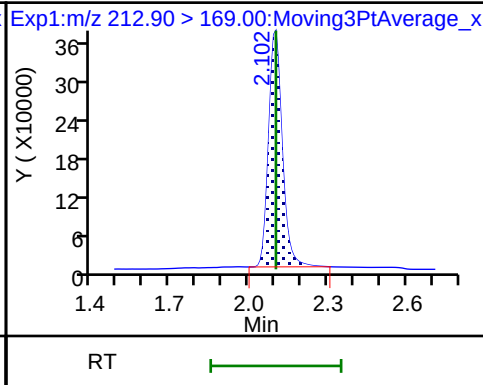
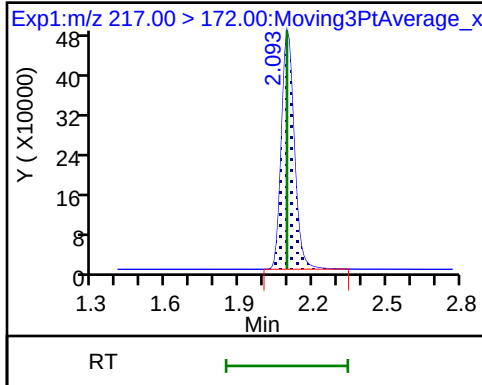
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

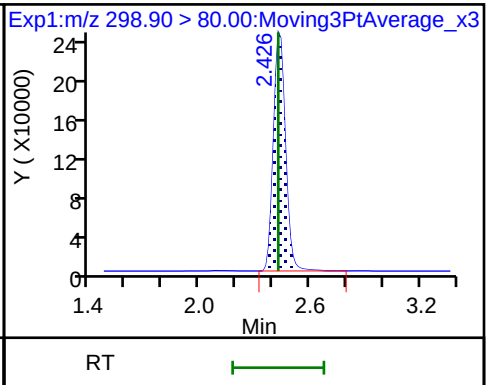
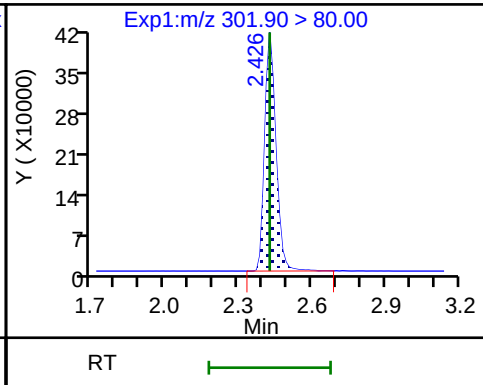
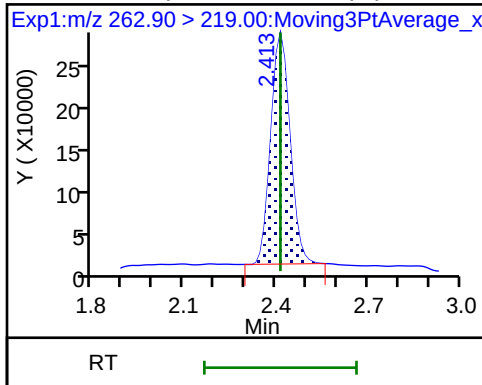
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

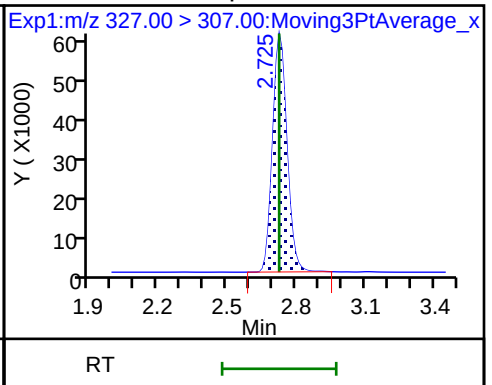
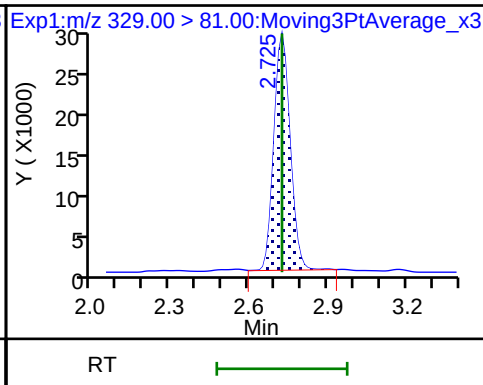
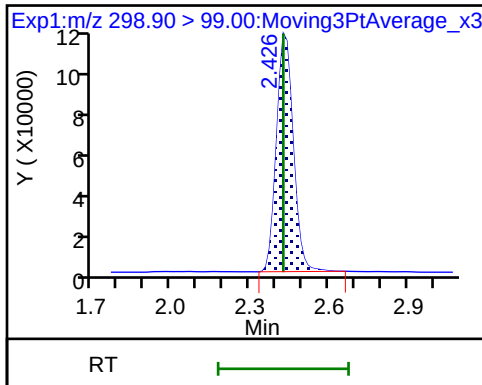
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

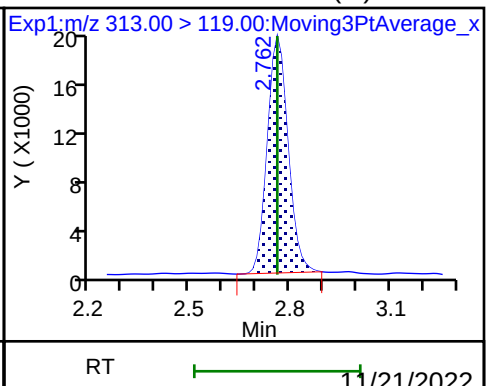
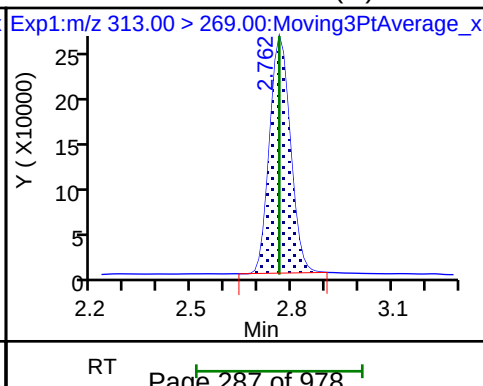
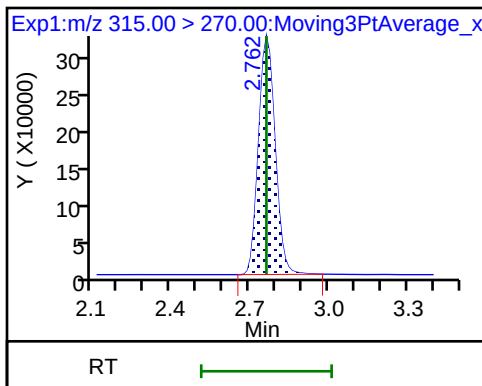
61 1H,1H,2H,2H-perfluorohexanesulfo

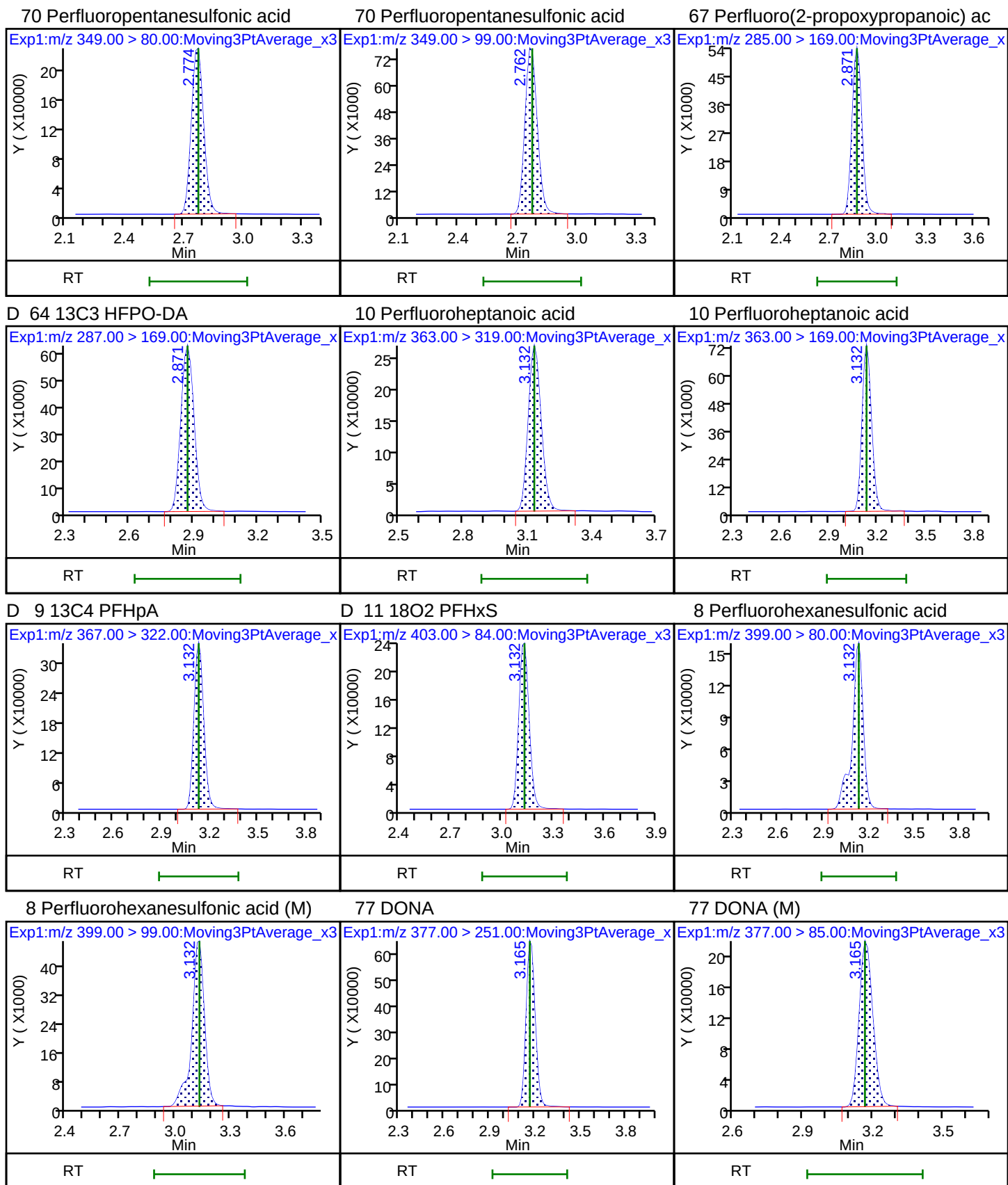


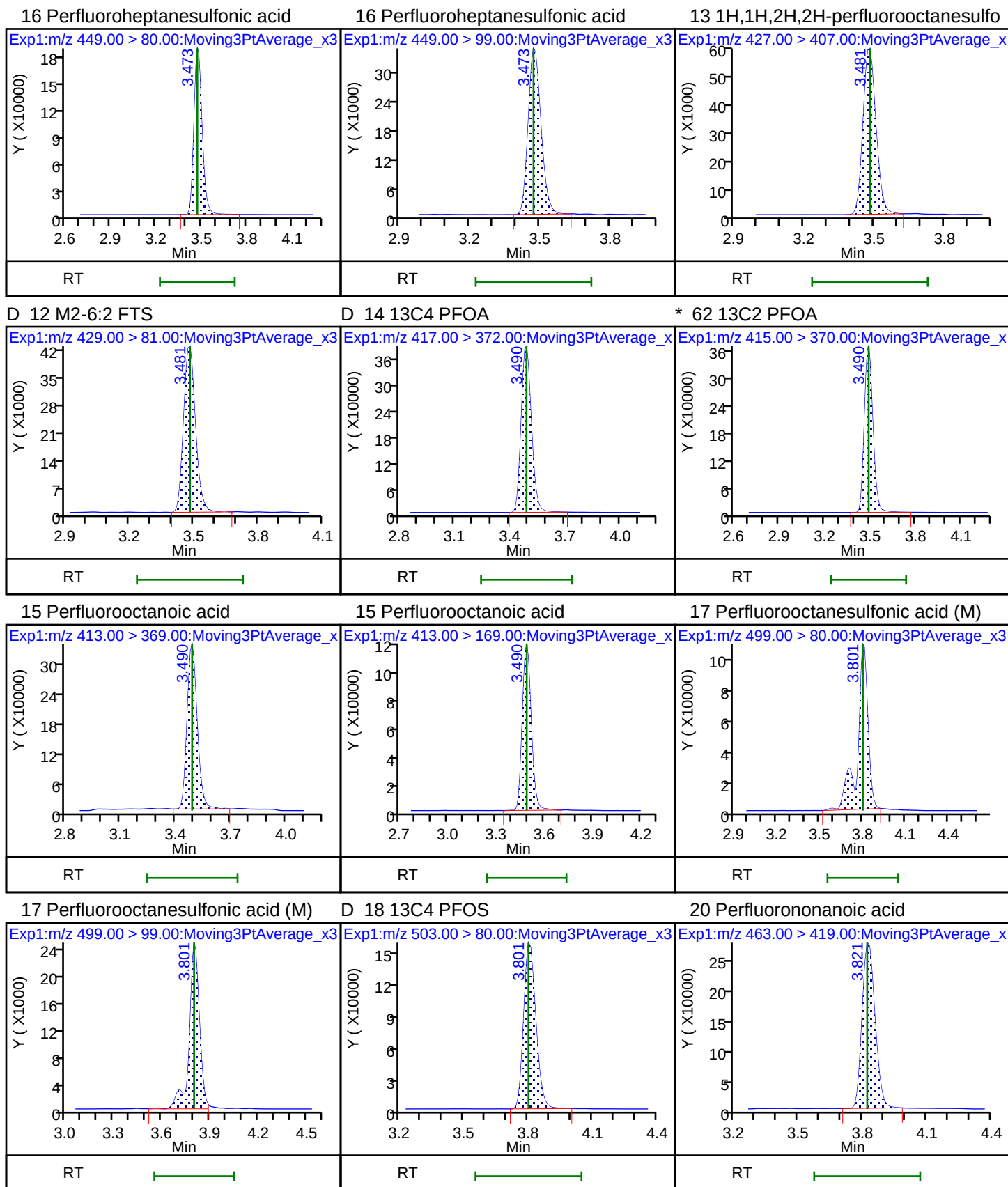
D 7 13C2 PFHxA

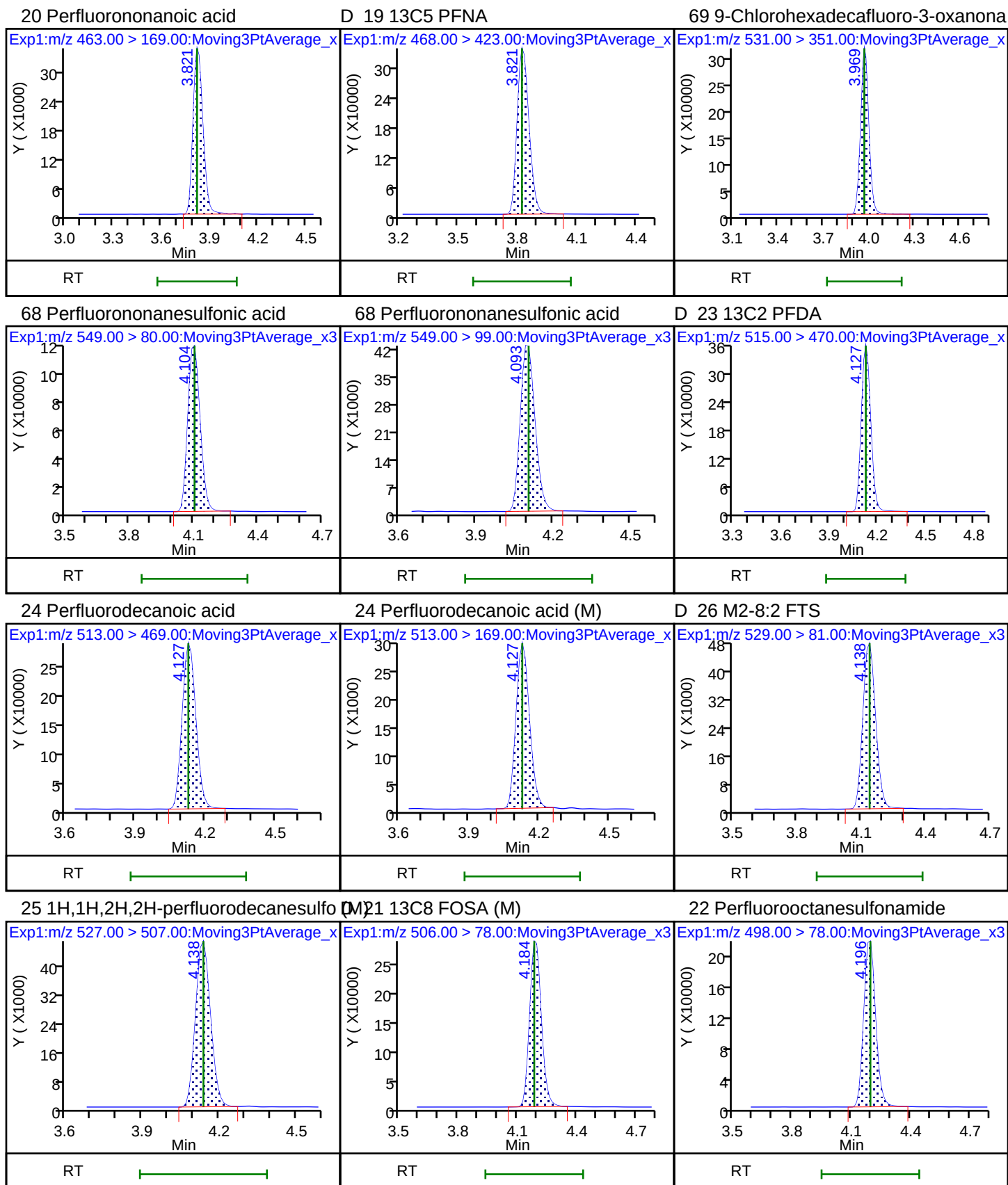
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)



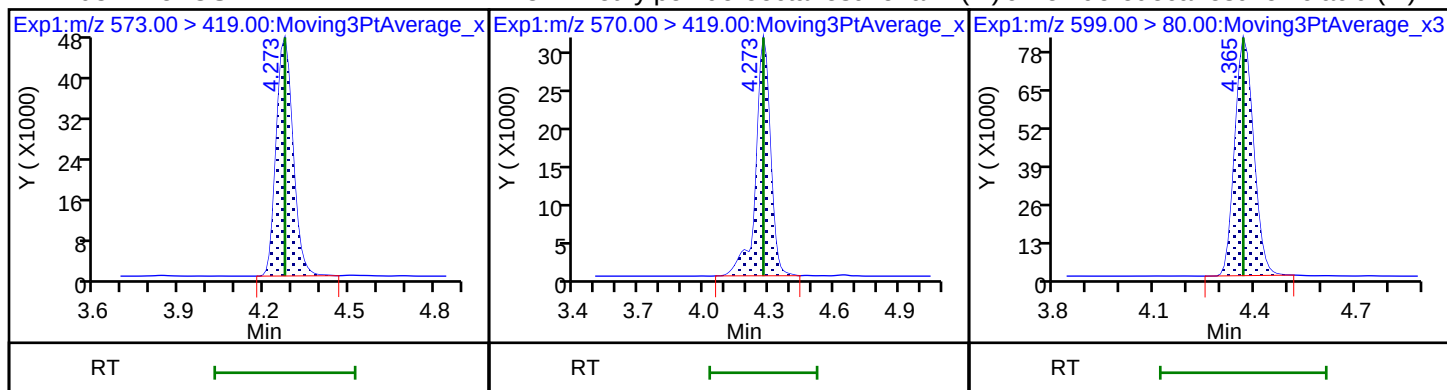






D 27 d3-NMeFOSAA

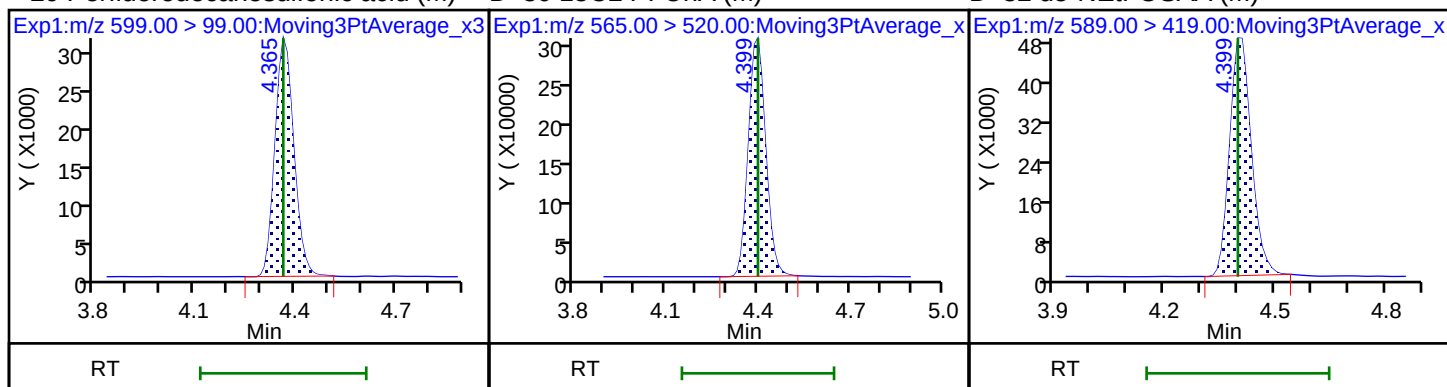
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

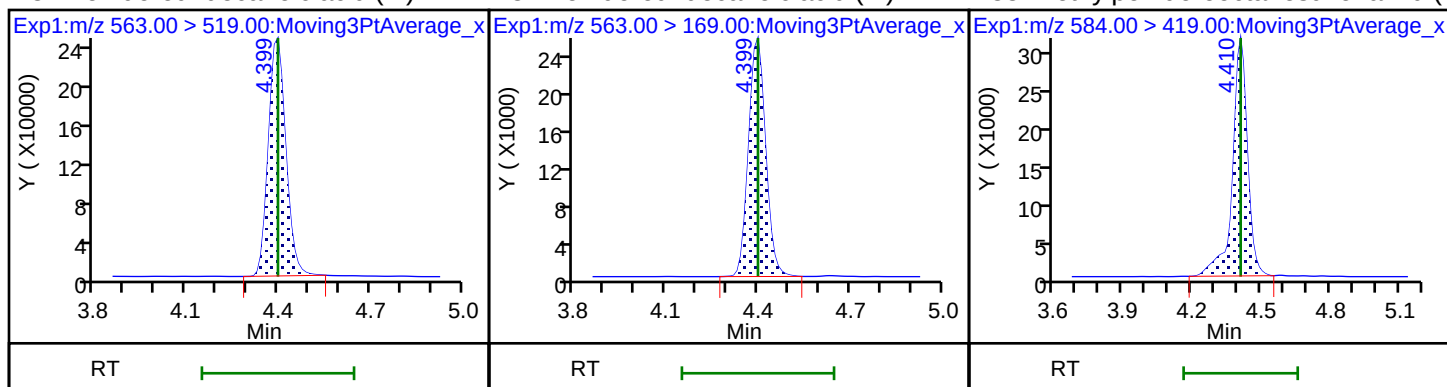
D 32 d5-NEtFOSAA (M)



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

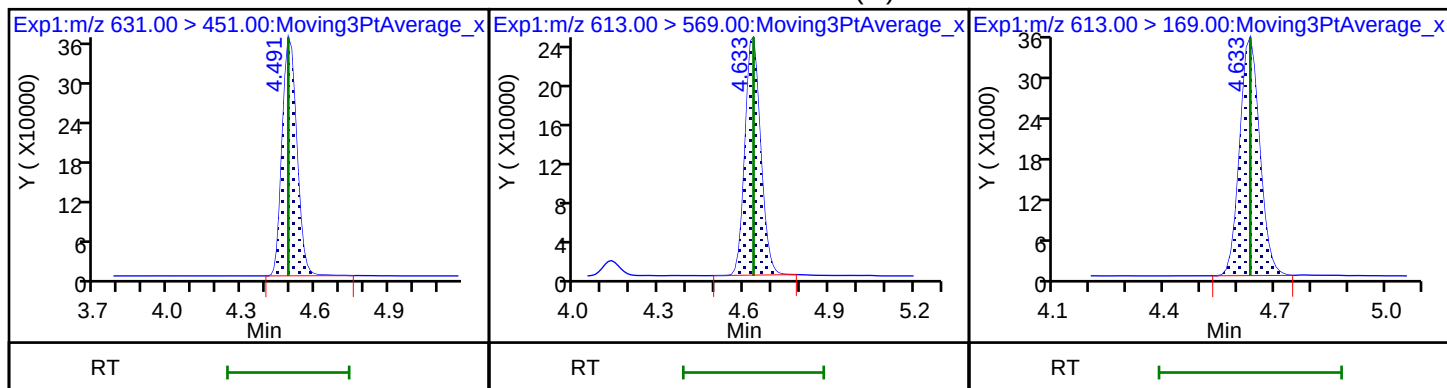
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

37 Perfluorododecanoic acid (M)

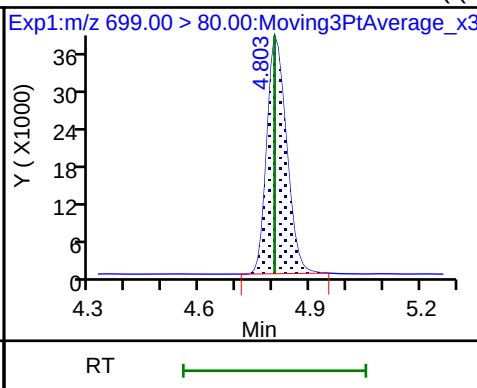
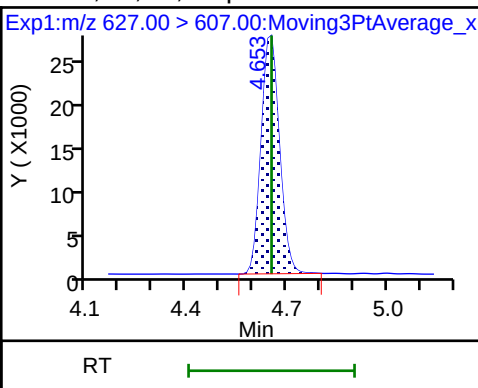
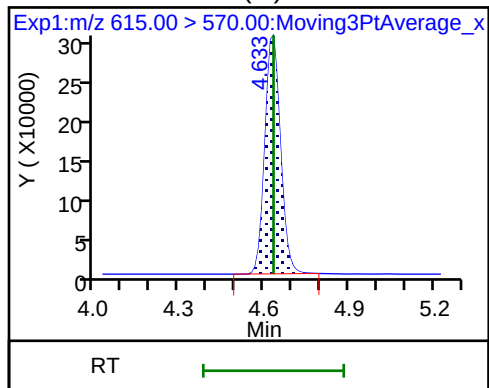
37 Perfluorododecanoic acid



D 36 13C2 PFDa (M)

74 1H,1H,2H,2H-perfluorododecanesul

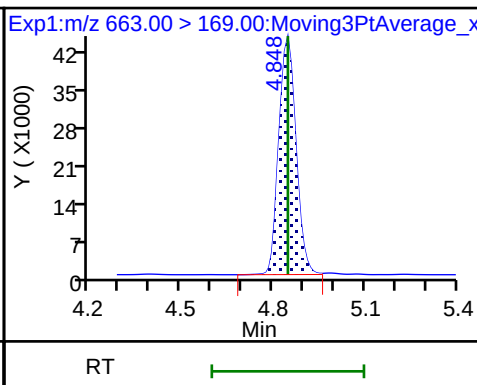
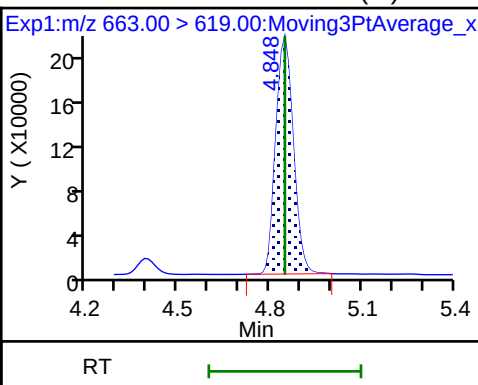
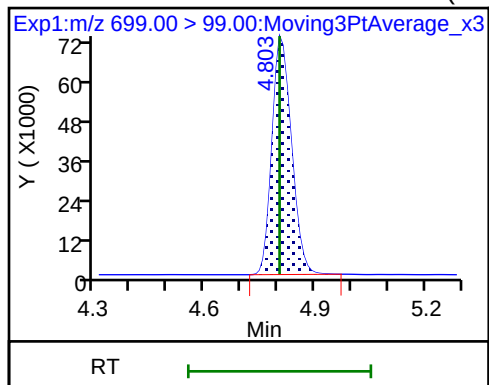
75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

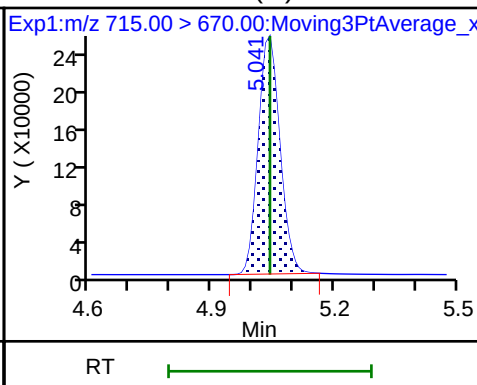
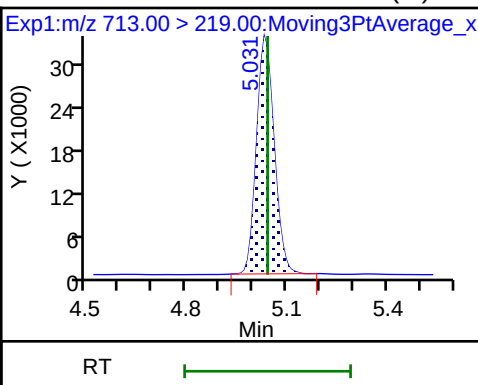
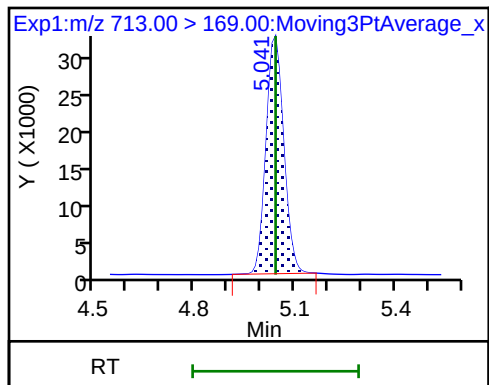
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

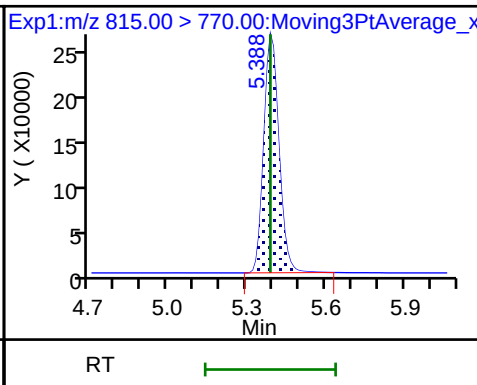
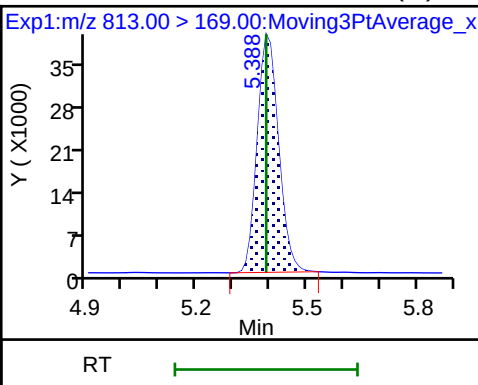
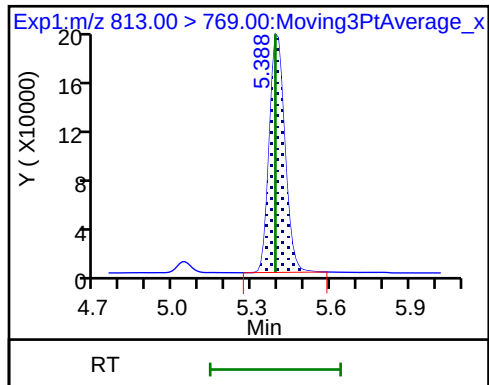
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

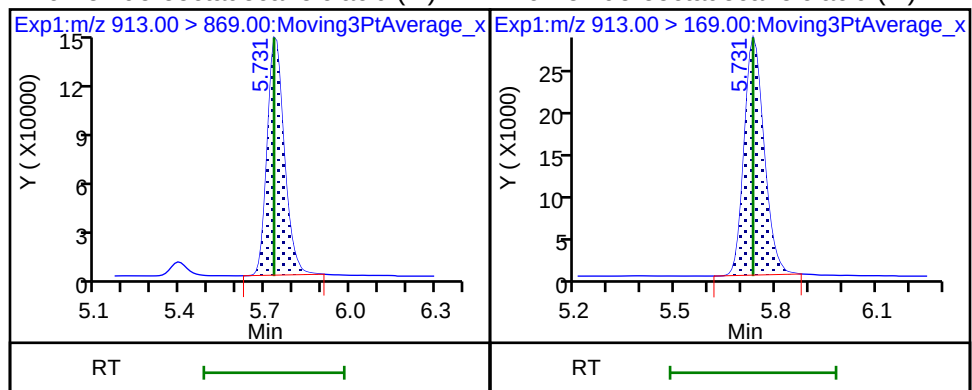
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

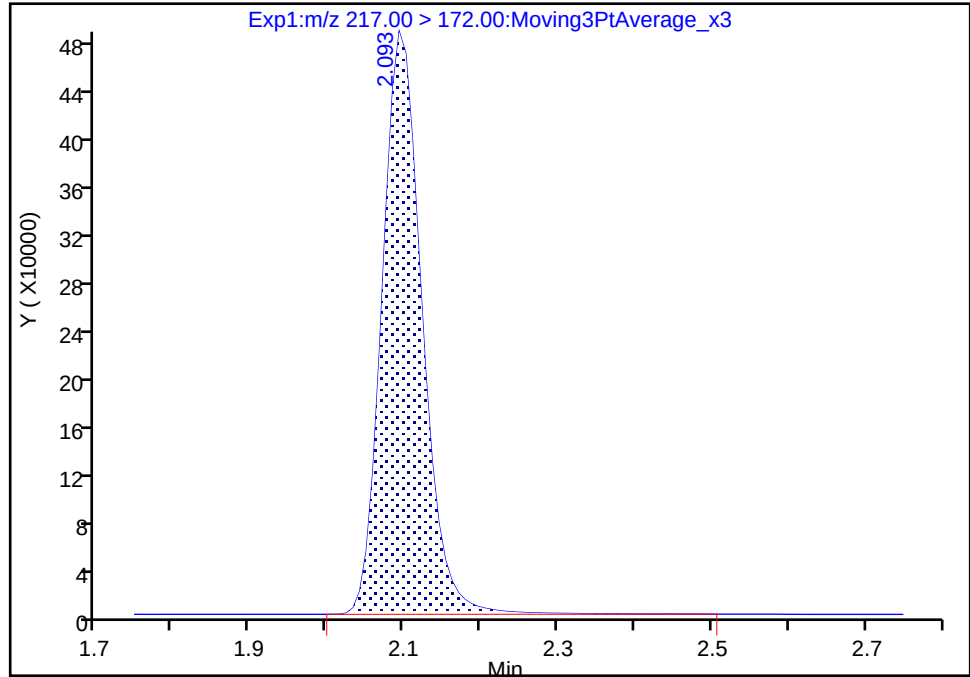
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

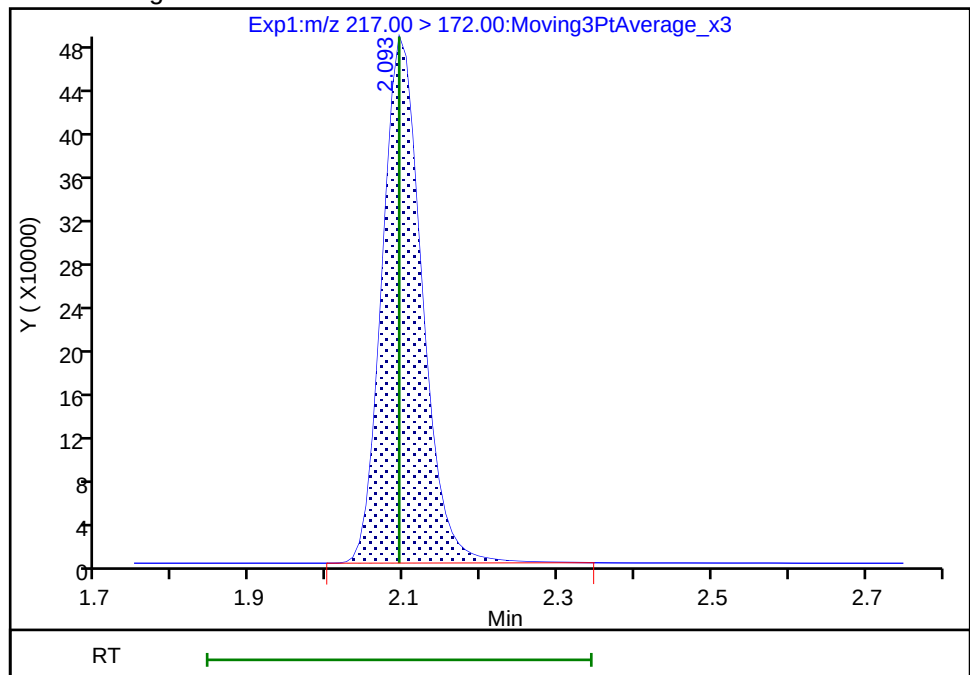
RT: 2.09
Area: 1737945
Amount: 1.254697
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1733241
Amount: 1.245312
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:07:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 294 of 978

11/21/2022
4:10 PM

Eurofins Burlington

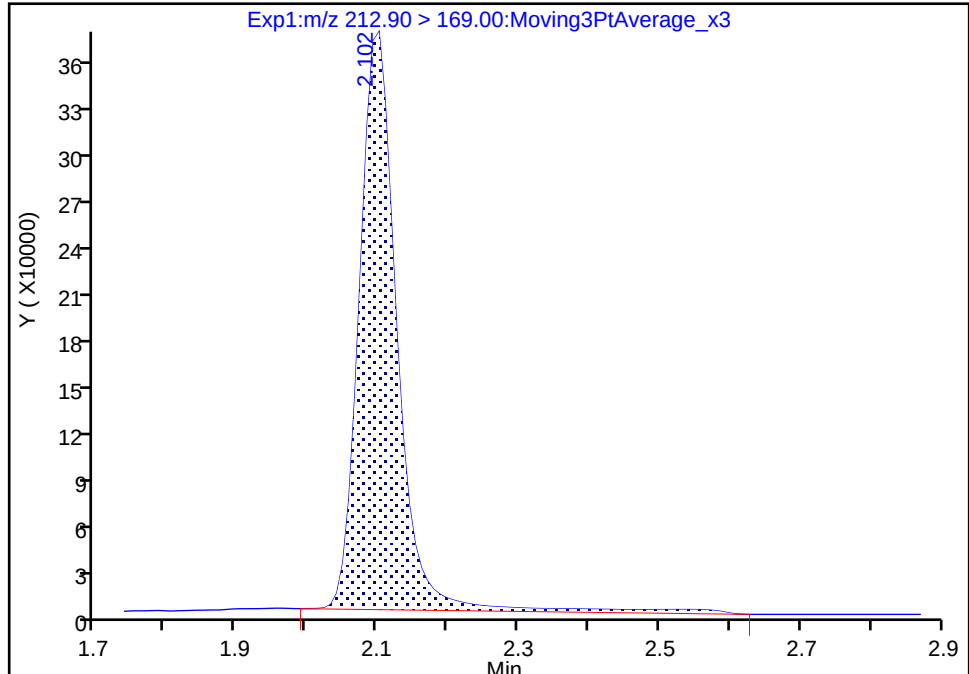
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

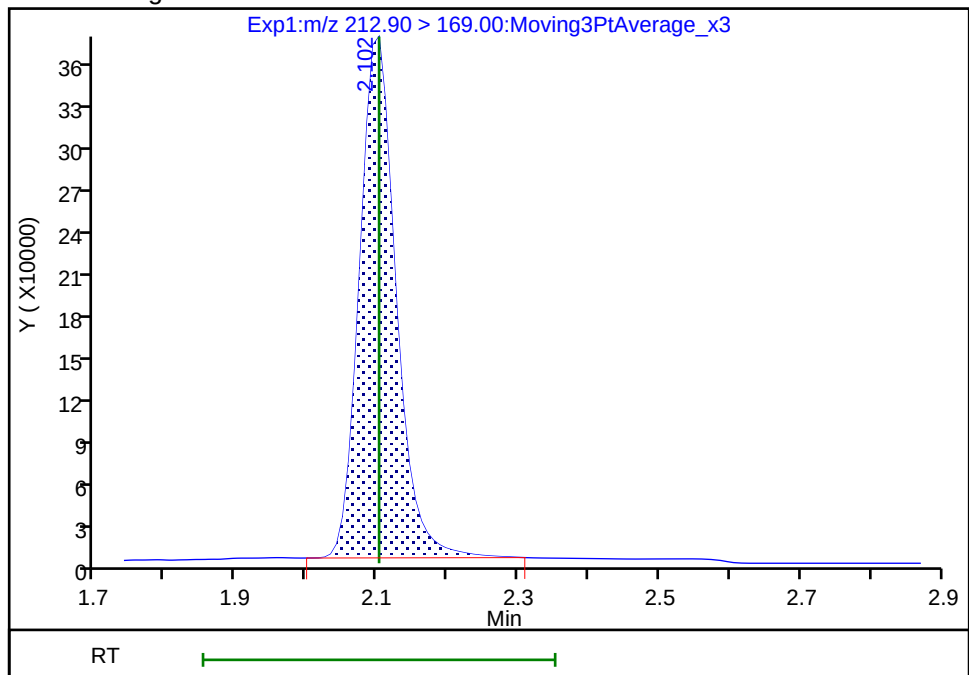
RT: 2.10
Area: 1409546
Amount: 0.958745
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 1350105
Amount: 0.961712
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:07:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 295 of 978

11/21/2022
4:10 PM

Eurofins Burlington

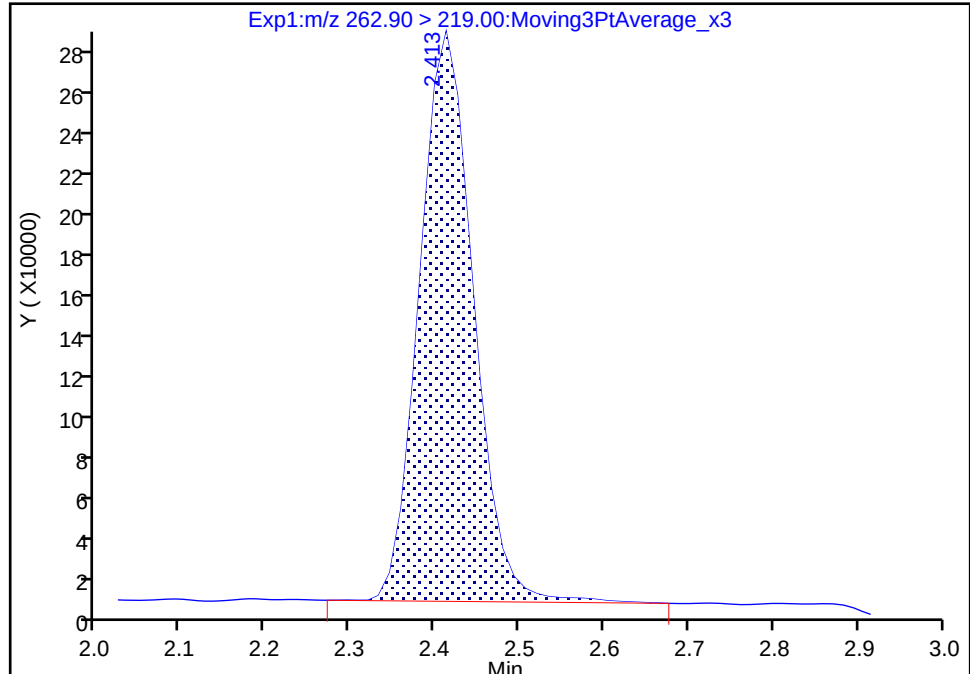
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

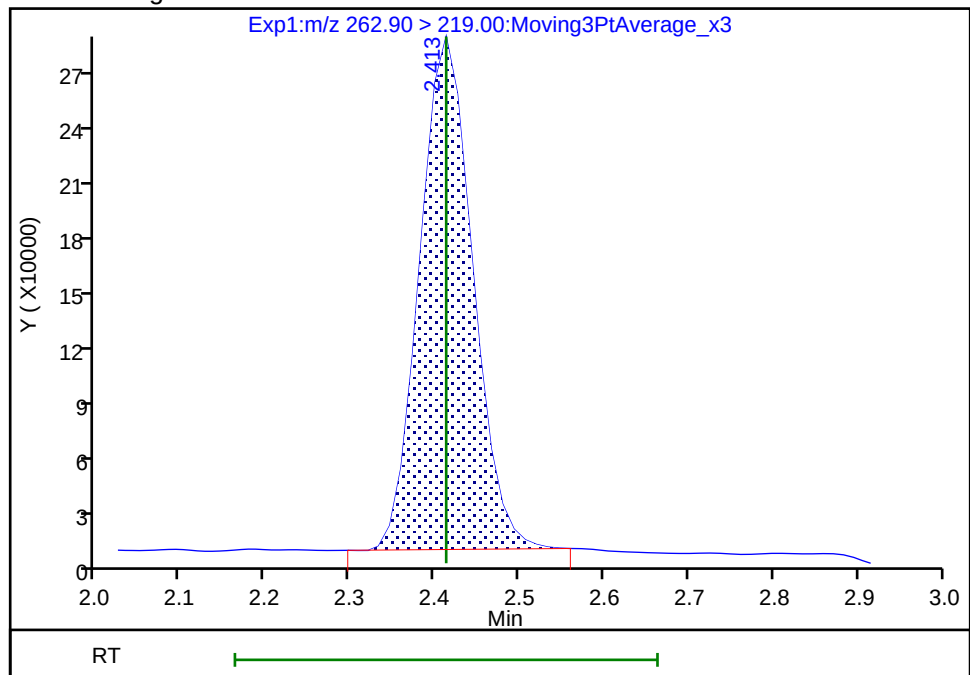
RT: 2.41
Area: 1208643
Amount: 1.001906
Amount Units: ng/ml

Processing Integration Results



RT: 2.41
Area: 1183868
Amount: 1.019211
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:08:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 296 of 978

11/21/2022
4:10 PM

Eurofins Burlington

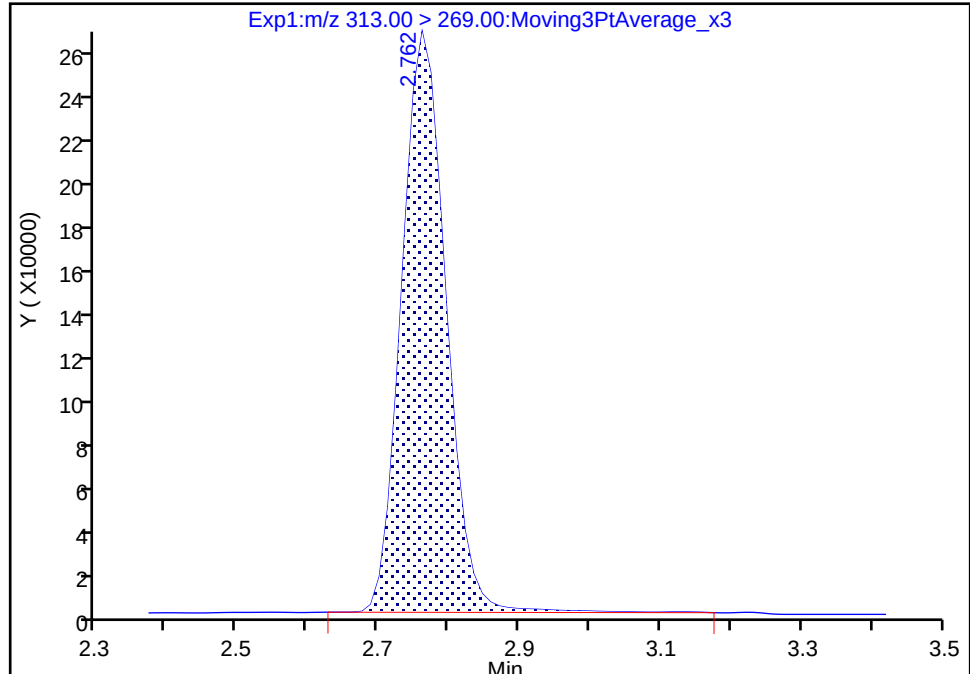
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

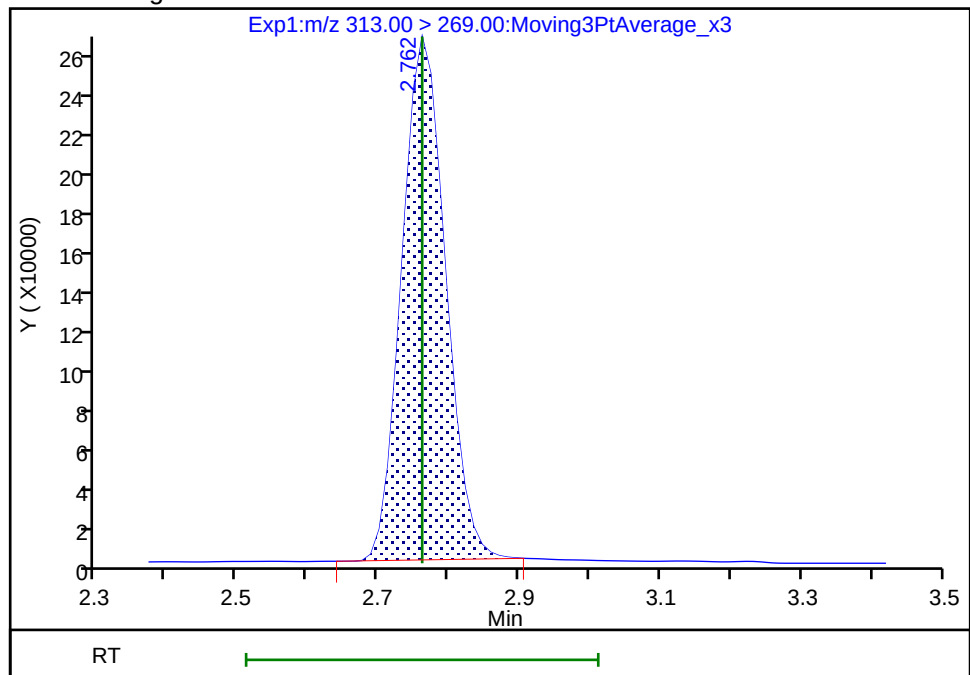
RT: 2.76
Area: 1155588
Amount: 0.909793
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 1133473
Amount: 0.913537
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:08:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 297 of 978

11/21/2022
4:10 PM

Eurofins Burlington

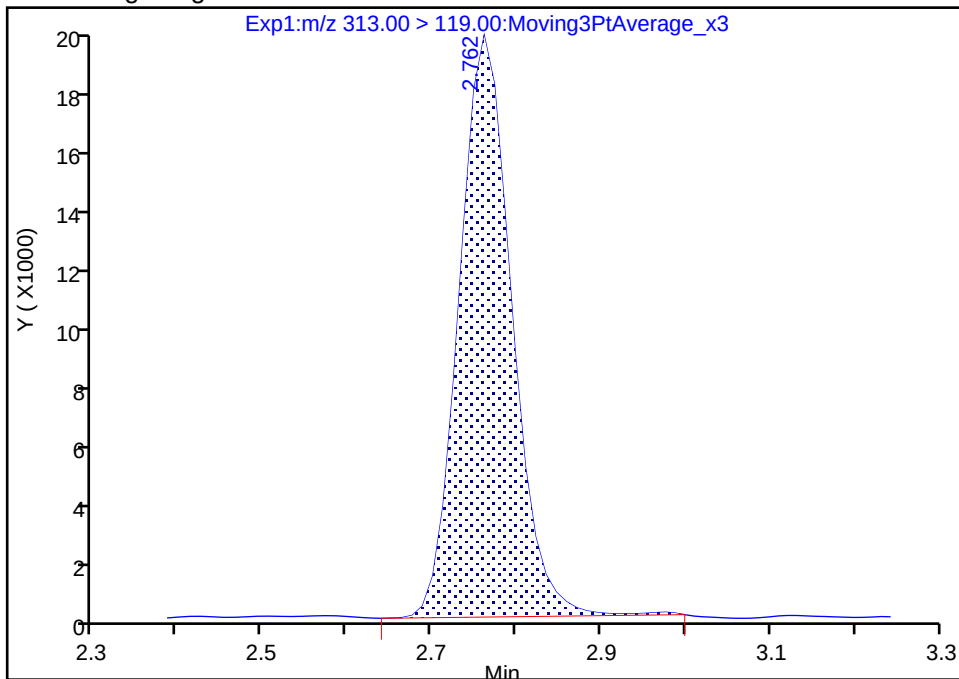
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

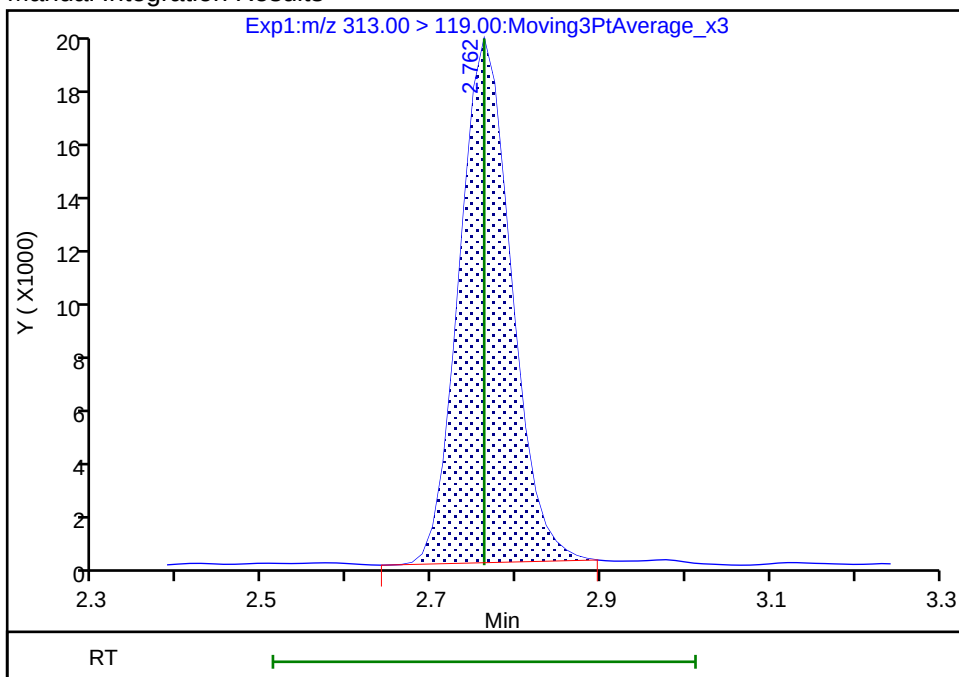
RT: 2.76
Area: 84116
Amount: 0.909793
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 82920
Amount: 0.913537
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:08:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 298 of 97811/21/2022
4:10 PM

Eurofins Burlington

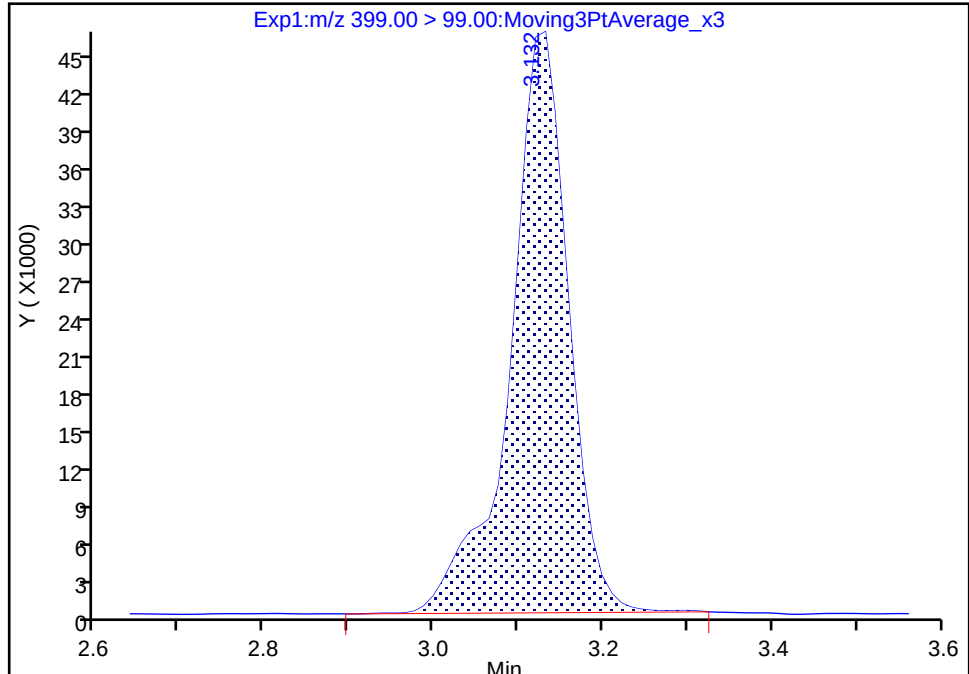
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

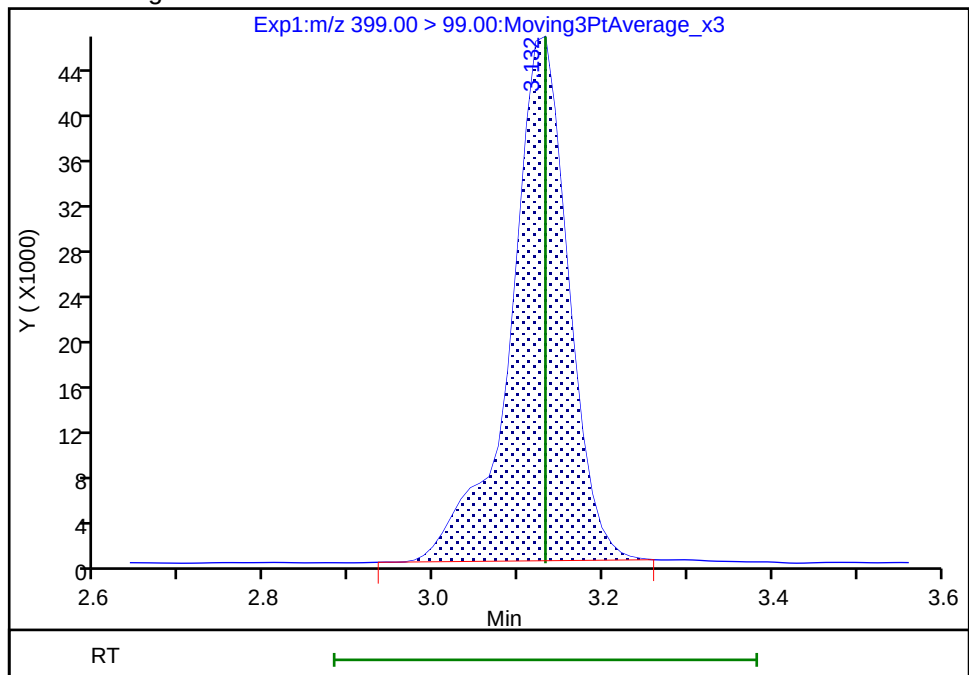
RT: 3.13
Area: 220879
Amount: 0.809174
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 218855
Amount: 0.838176
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:08:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 299 of 978

11/21/2022
4:10 PM

Eurofins Burlington

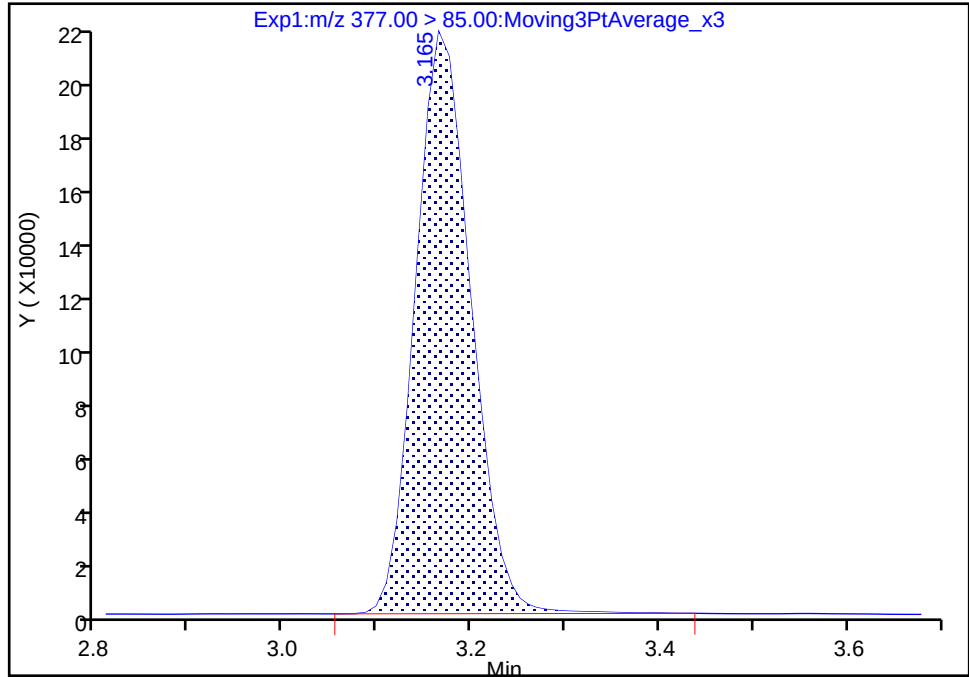
Data File:	\\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d		
Injection Date:	14-Sep-2022 10:58:11	Instrument ID:	LC812
Lims ID:	ICIS		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	5 Worklist Smp#: 8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

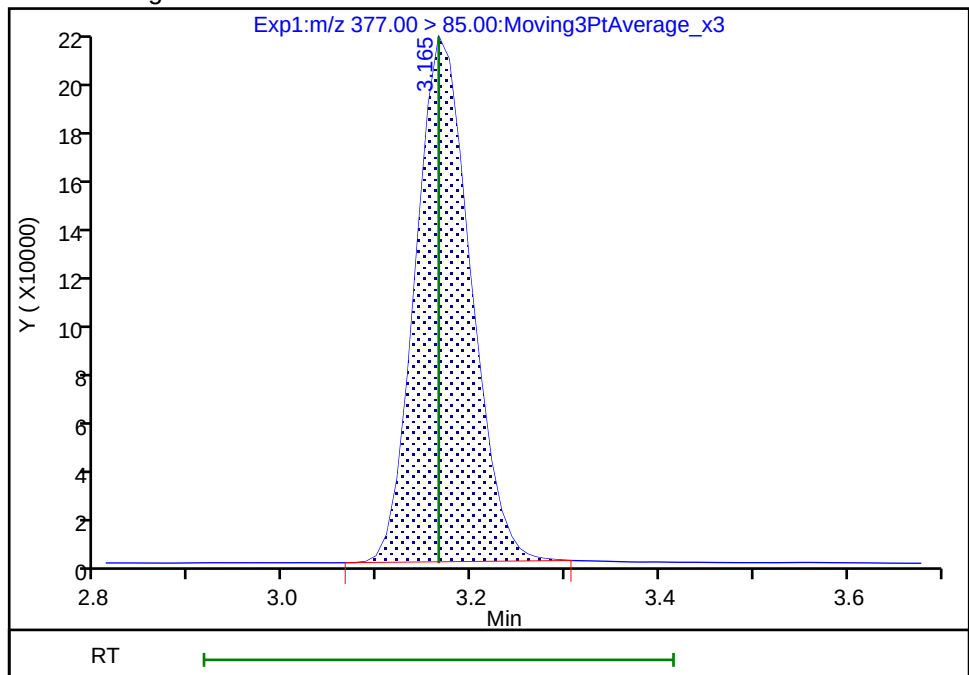
RT: 3.16
Area: 869710
Amount: 0.910602
Amount Units: ng/ml

Processing Integration Results



RT: 3.16
Area: 861495
Amount: 0.936325
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:08:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 300 of 978

11/21/2022
4:10 PM

Eurofins Burlington

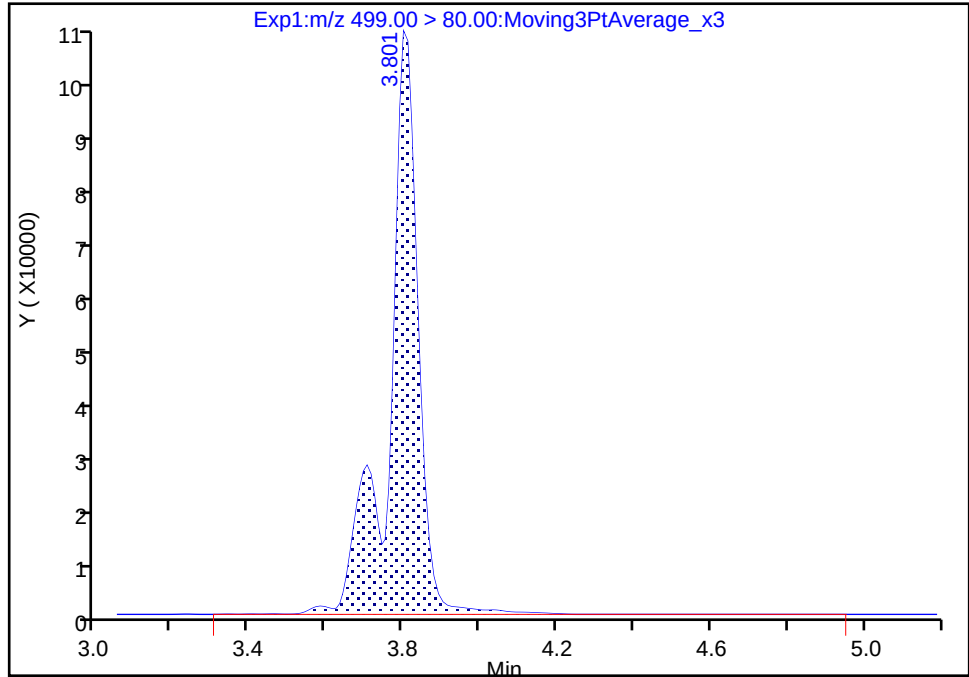
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

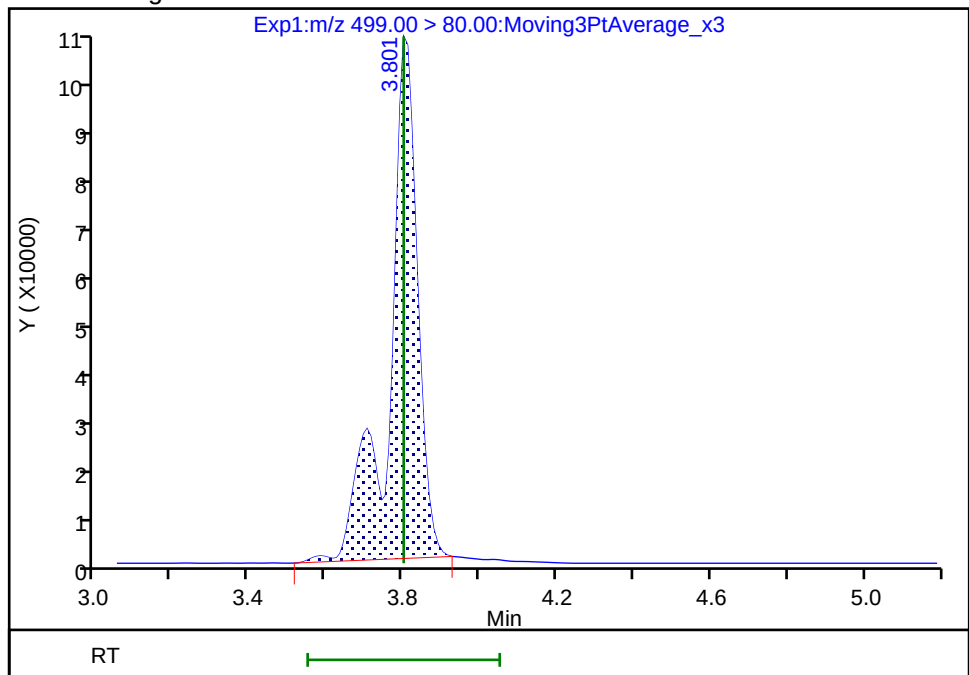
RT: 3.80
Area: 568956
Amount: 0.915791
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 540986
Amount: 0.867055
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 301 of 978

11/21/2022
4:10 PM

Eurofins Burlington

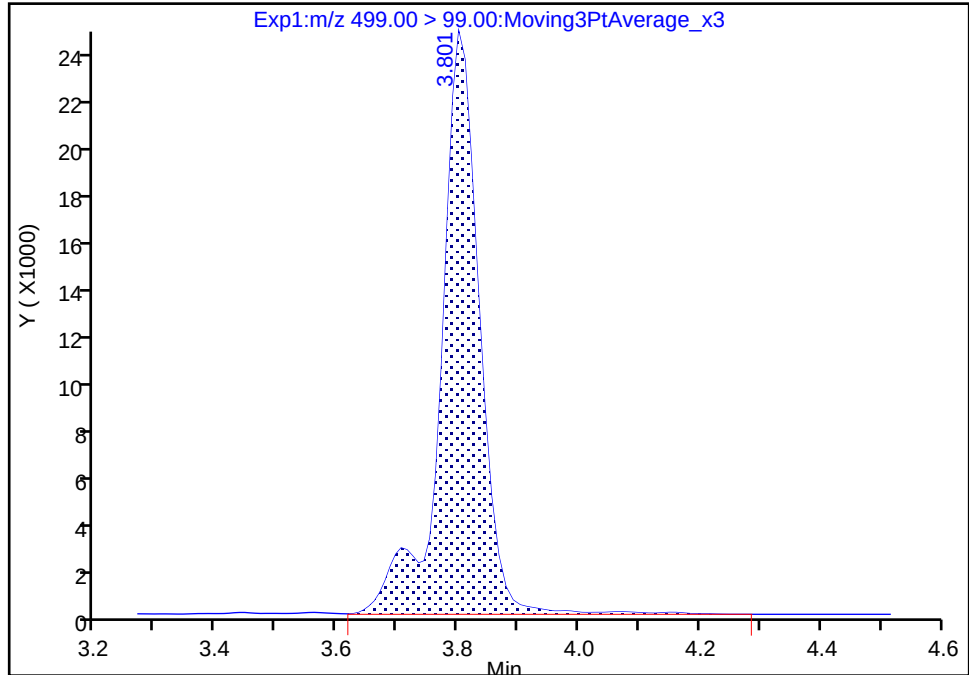
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

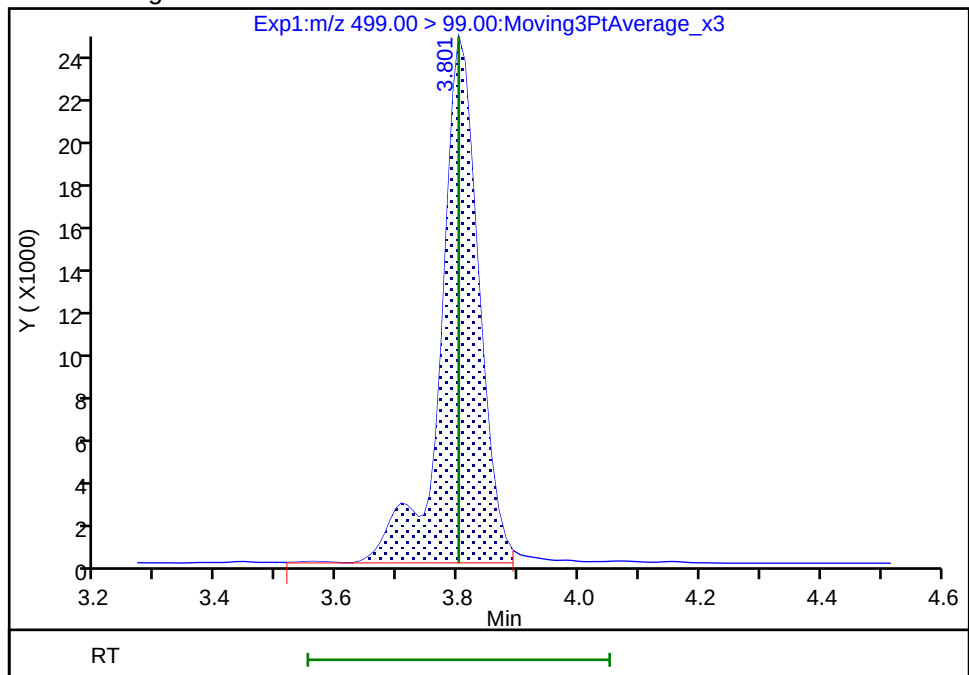
RT: 3.80
Area: 108495
Amount: 0.915791
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 106181
Amount: 0.867055
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 302 of 97811/21/2022
4:10 PM

Eurofins Burlington

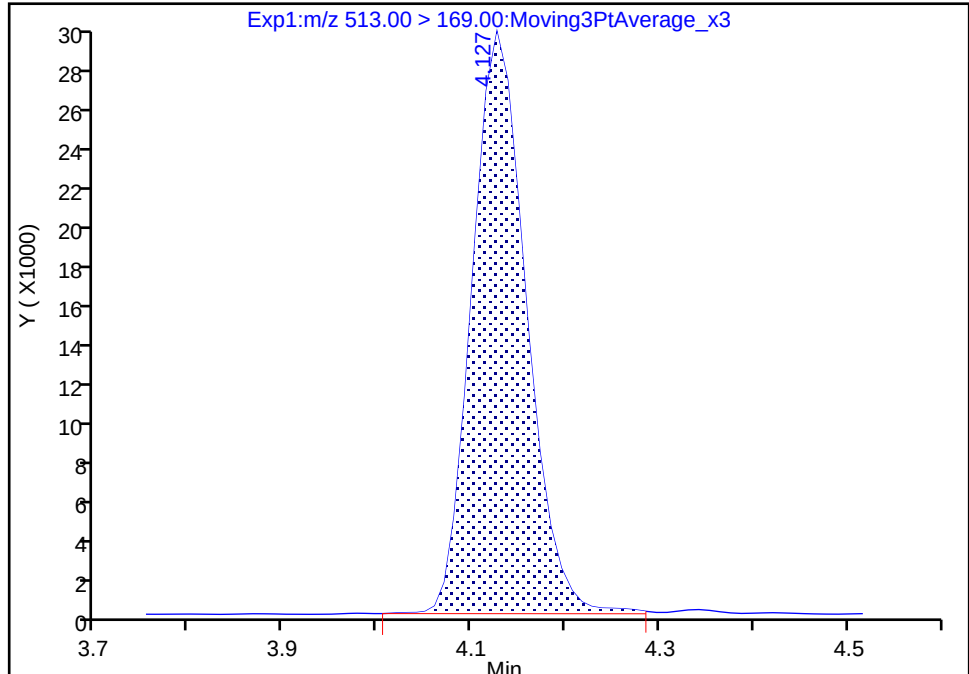
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

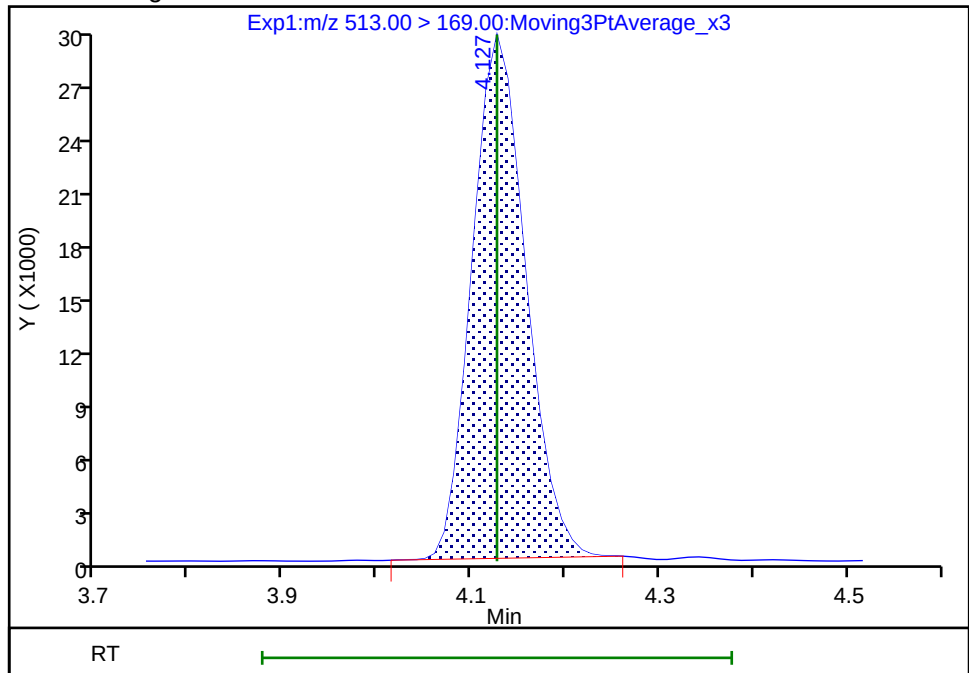
RT: 4.13
Area: 118636
Amount: 0.909401
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 116316
Amount: 0.936787
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 303 of 978

11/21/2022
4:10 PM

Eurofins Burlington

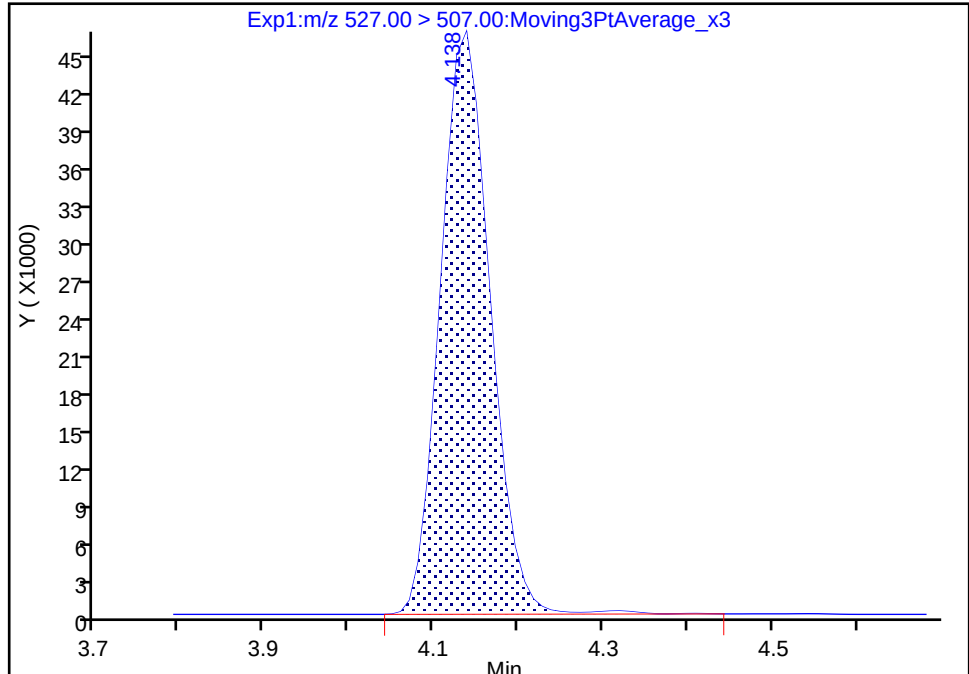
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

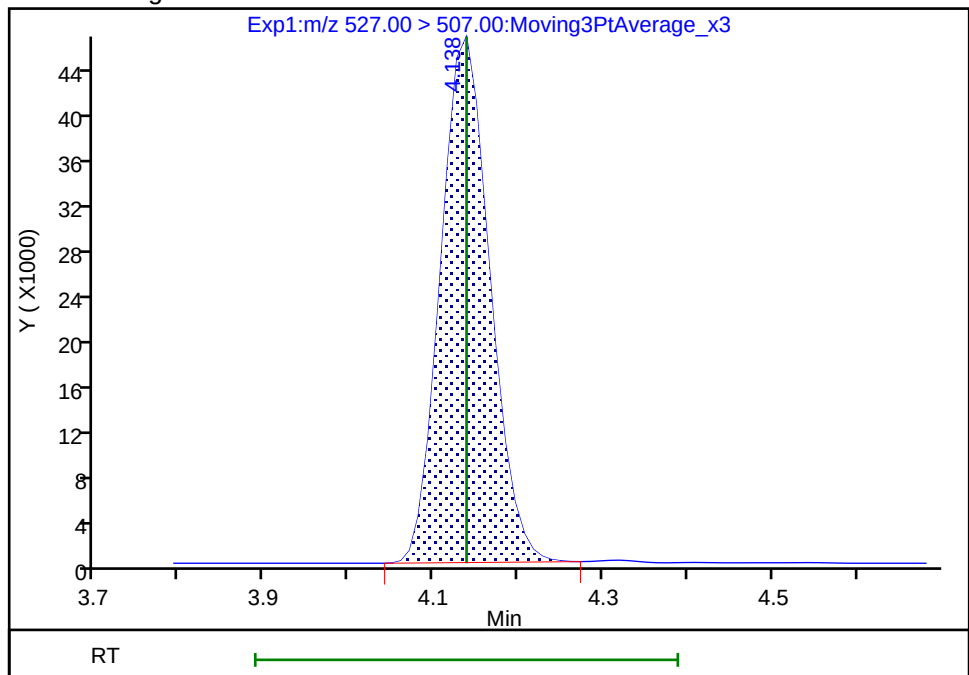
RT: 4.14
Area: 188897
Amount: 0.915510
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 187131
Amount: 0.936881
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 304 of 978

11/21/2022
4:10 PM

Eurofins Burlington

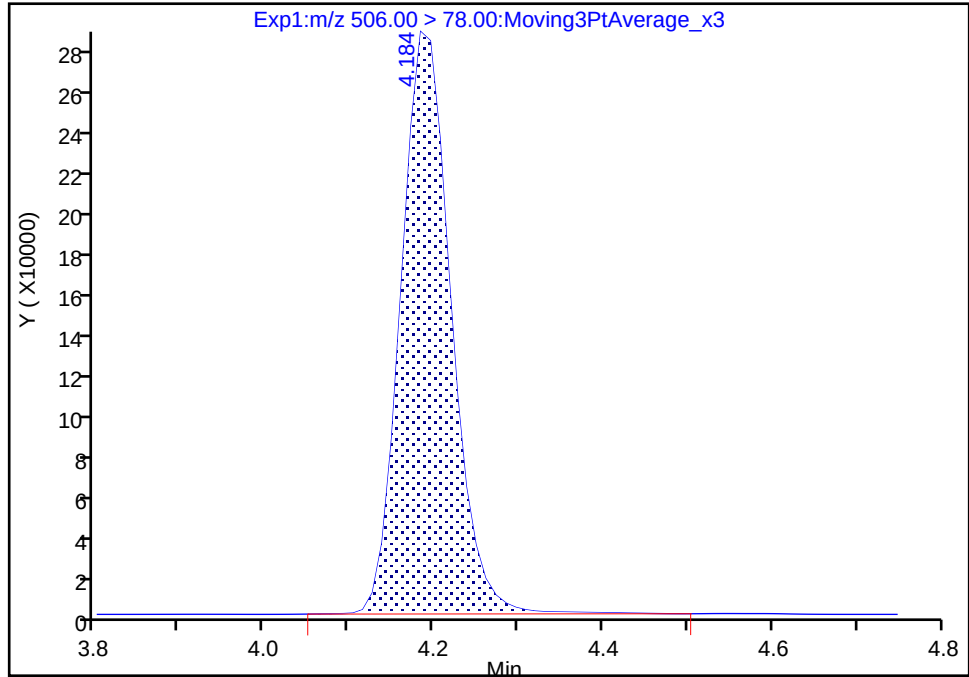
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

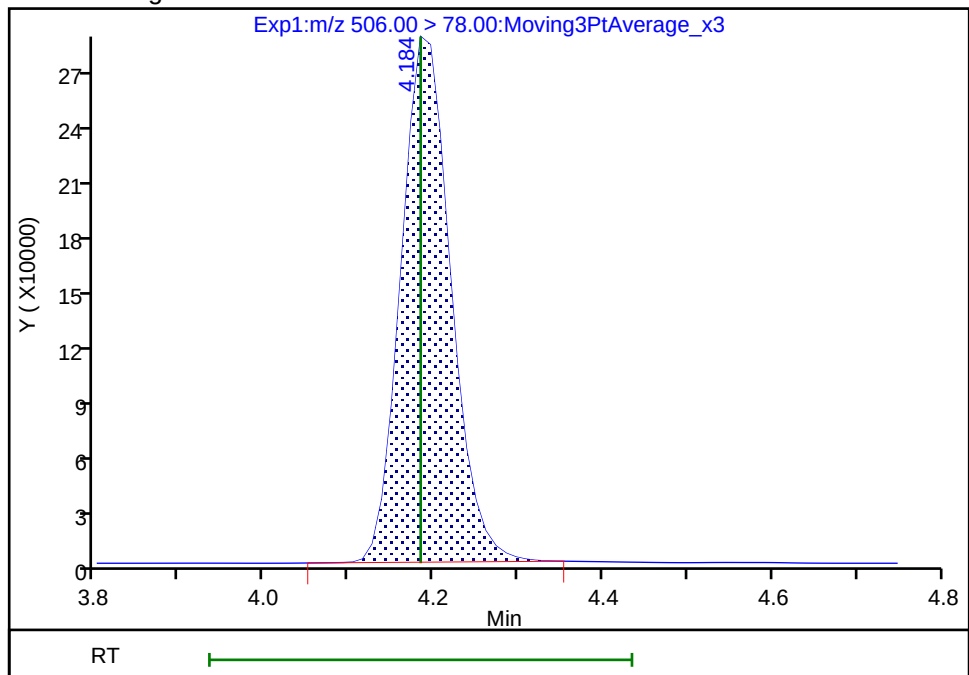
RT: 4.18
Area: 1176871
Amount: 1.286897
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 1165740
Amount: 1.279701
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 305 of 978

11/21/2022
4:10 PM

Eurofins Burlington

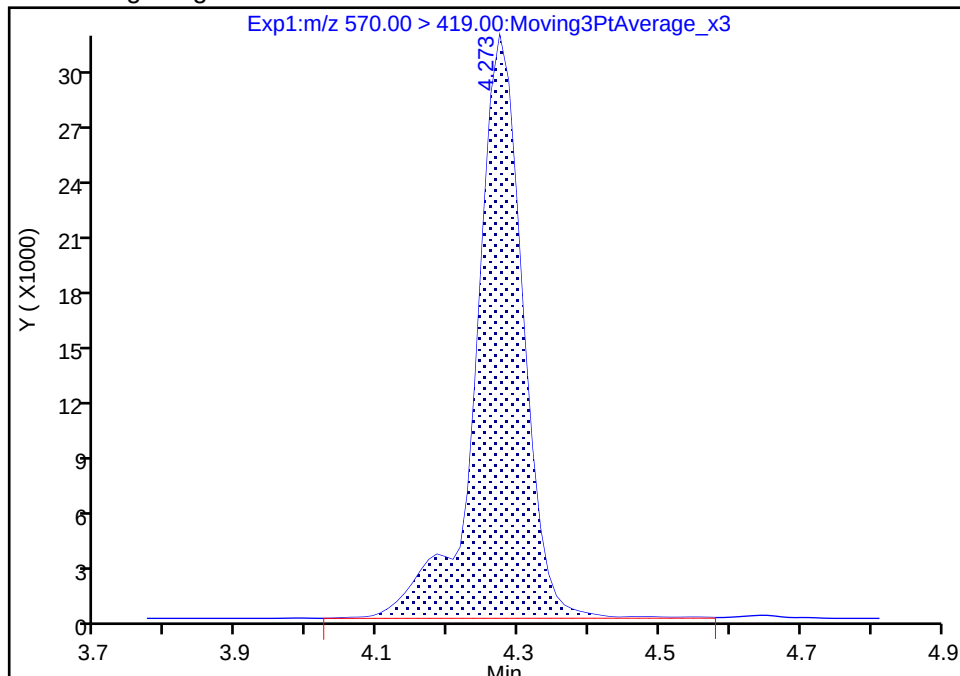
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

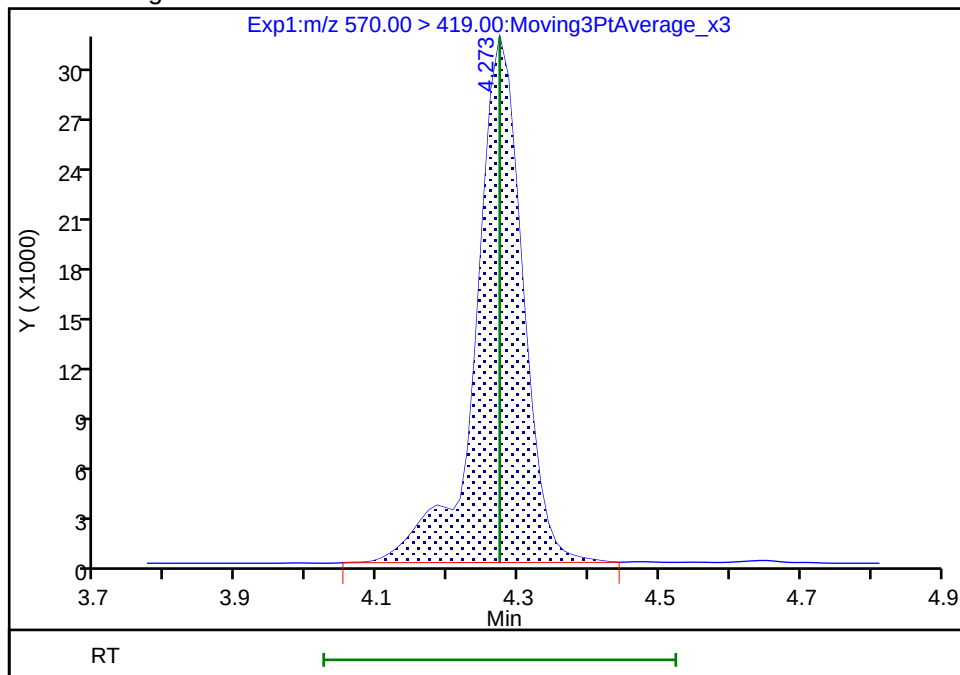
RT: 4.27
Area: 148571
Amount: 1.012457
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 147179
Amount: 1.020581
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 306 of 978

11/21/2022
4:10 PM

Eurofins Burlington

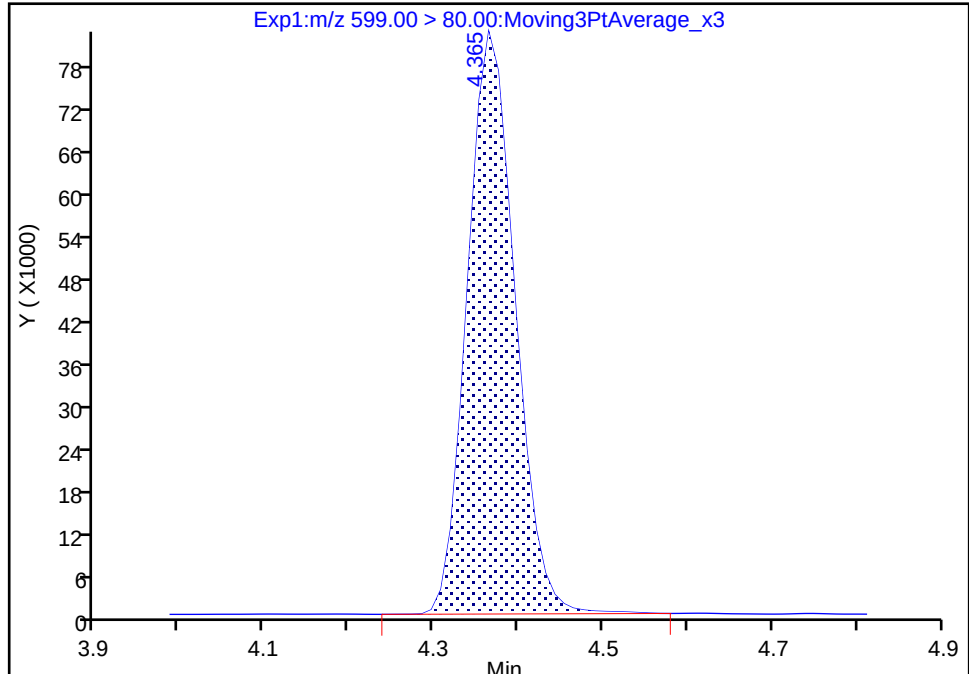
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

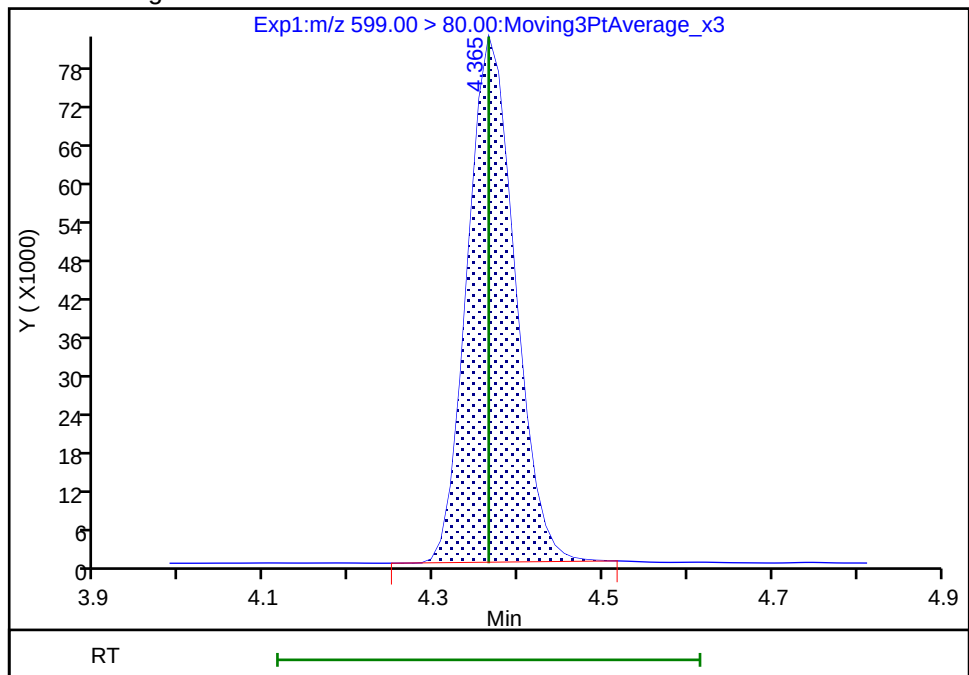
RT: 4.36
Area: 323854
Amount: 0.884566
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 321319
Amount: 0.906834
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:09:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 307 of 978

11/21/2022
4:10 PM

Eurofins Burlington

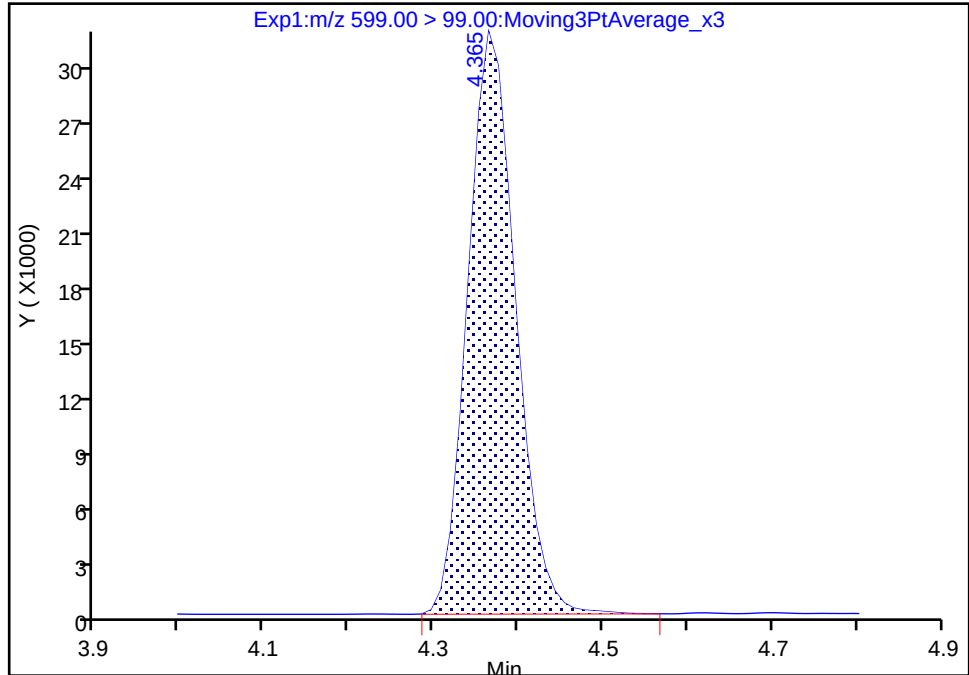
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

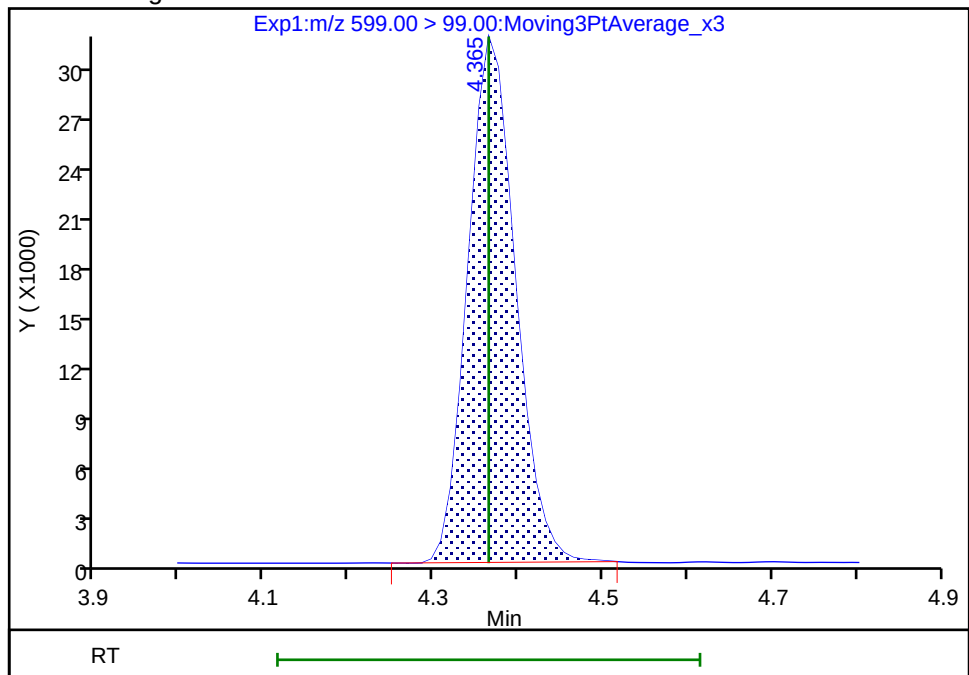
RT: 4.36
Area: 124695
Amount: 0.884566
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 123965
Amount: 0.906834
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 308 of 97811/21/2022
4:10 PM

Eurofins Burlington

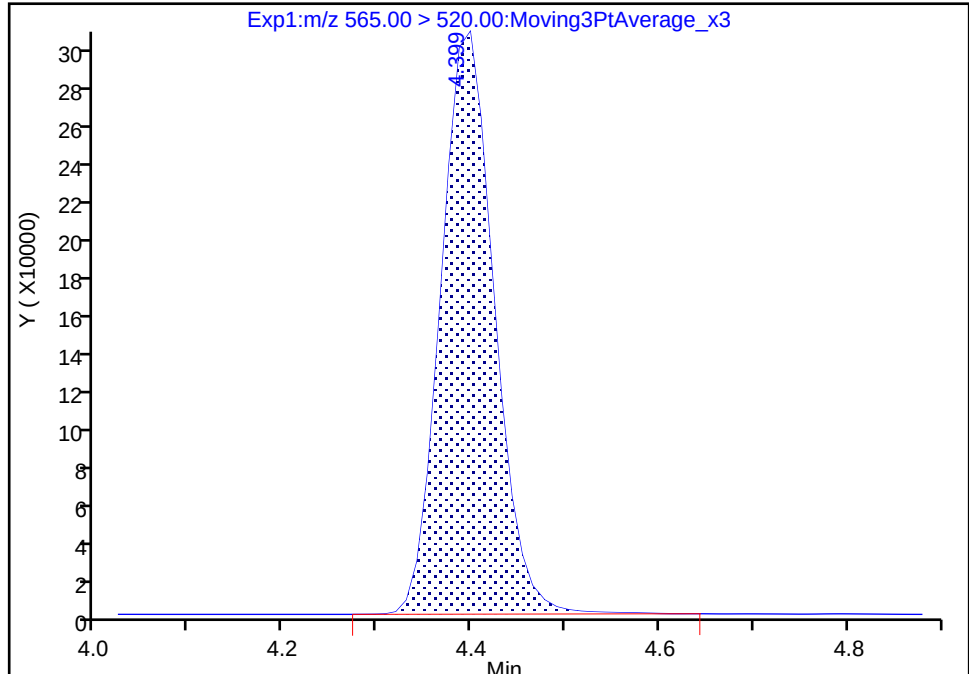
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

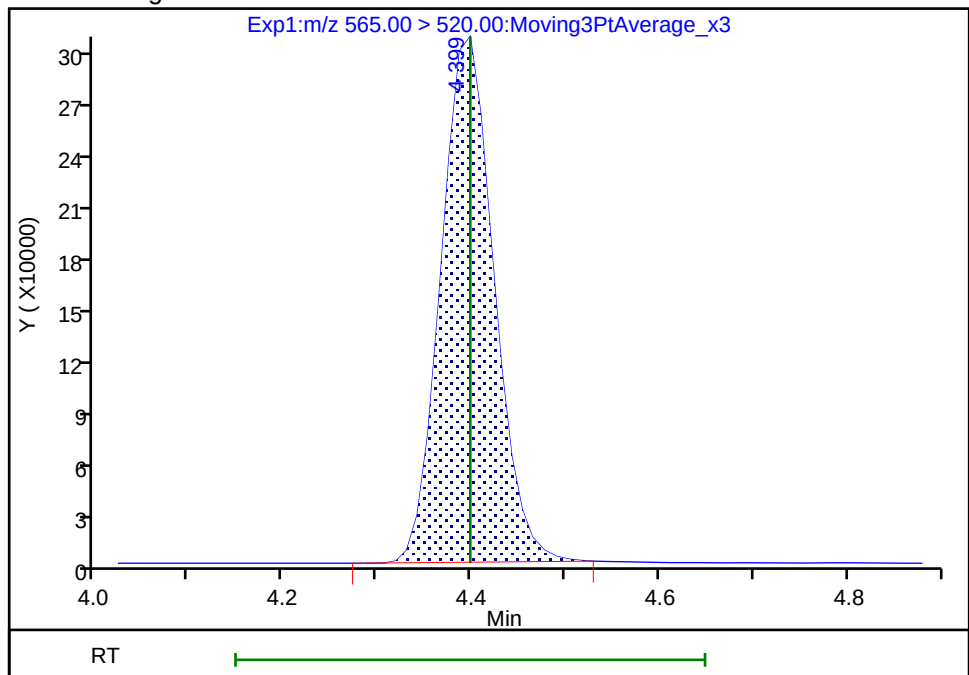
RT: 4.40
Area: 1188488
Amount: 1.278422
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 1178414
Amount: 1.286809
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 309 of 978

11/21/2022
4:10 PM

Eurofins Burlington

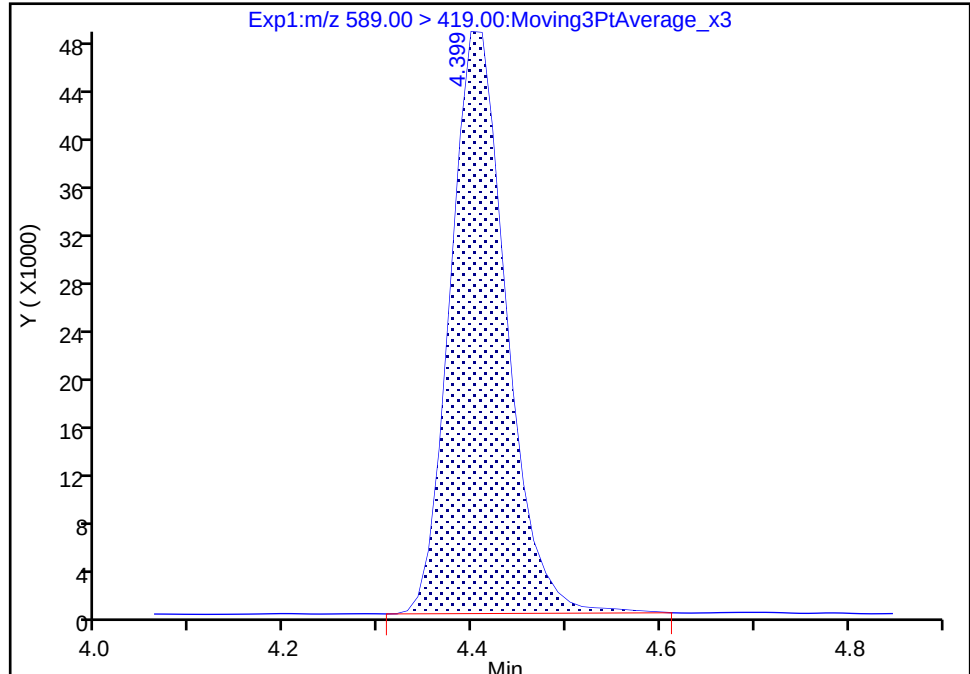
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

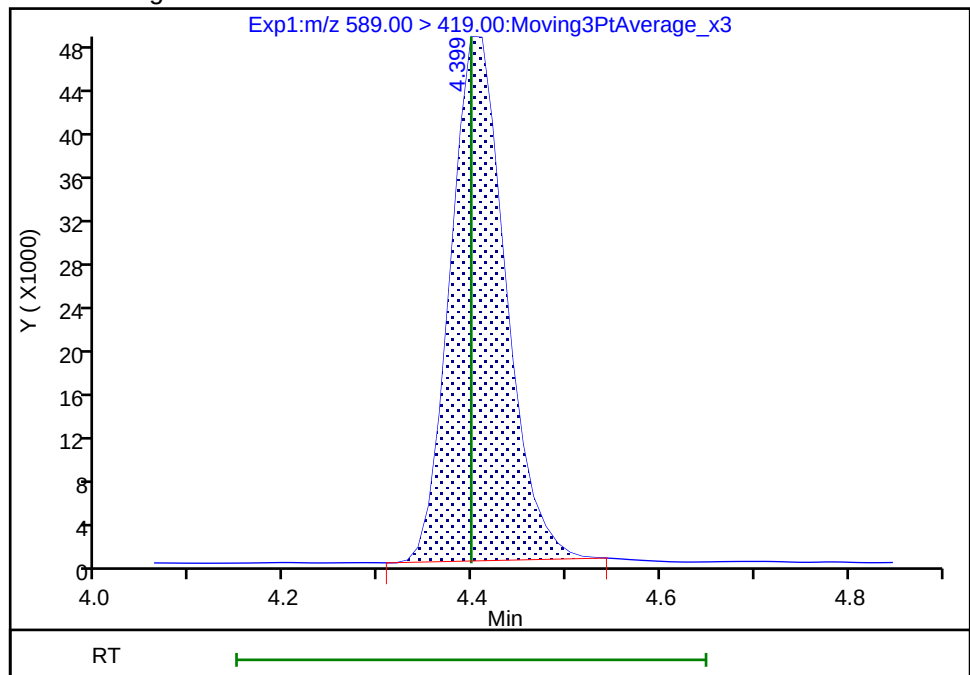
RT: 4.40
Area: 197920
Amount: 1.240957
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 194646
Amount: 1.245440
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 310 of 978

11/21/2022
4:10 PM

Eurofins Burlington

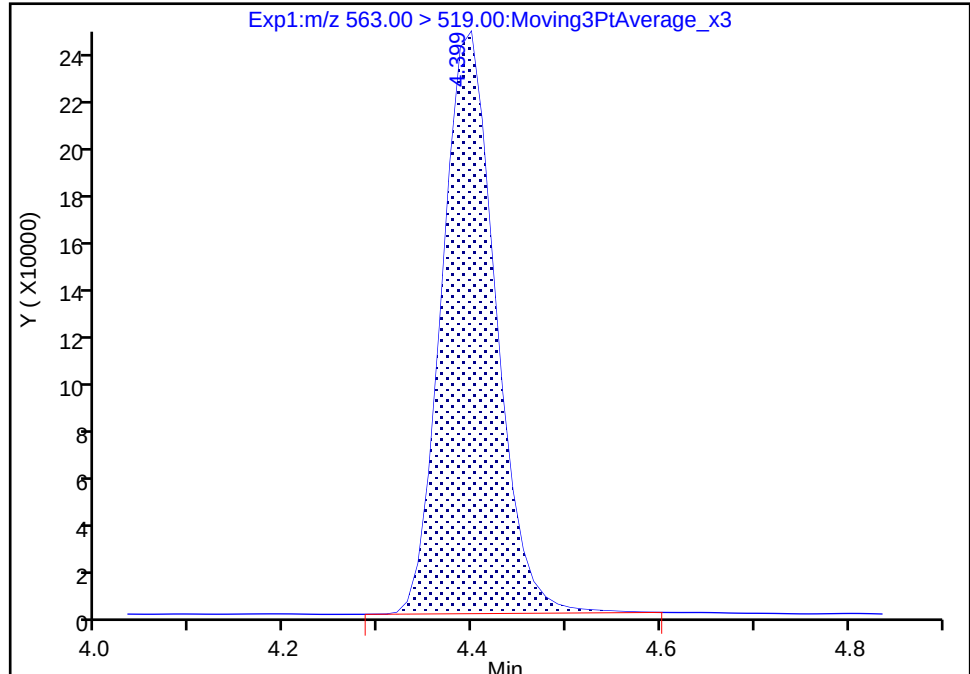
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

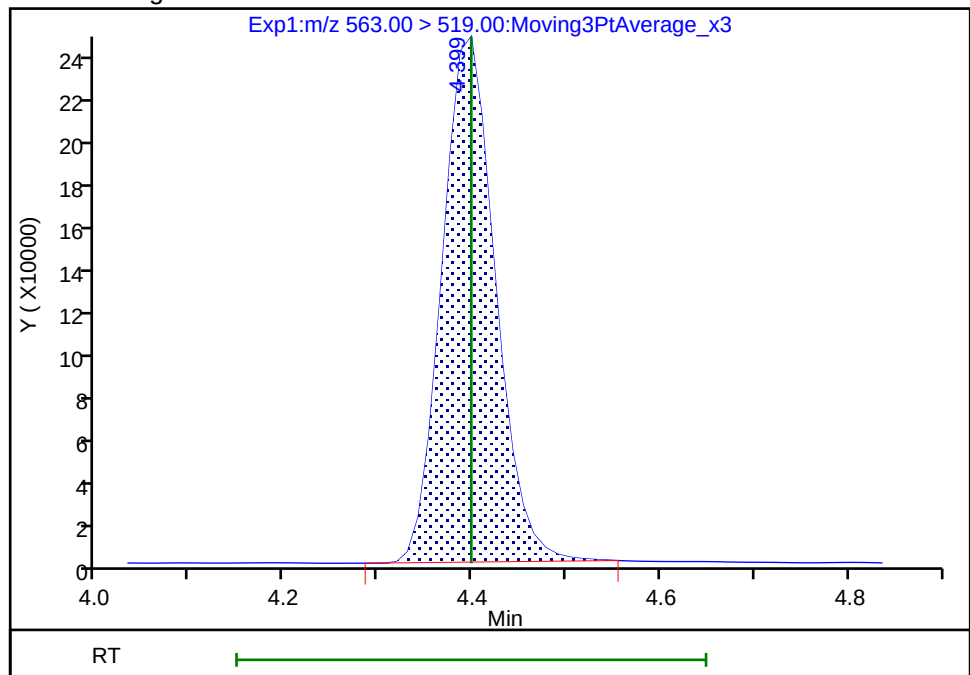
RT: 4.40
Area: 957996
Amount: 0.939983
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 952713
Amount: 0.968802
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 311 of 978

11/21/2022
4:10 PM

Eurofins Burlington

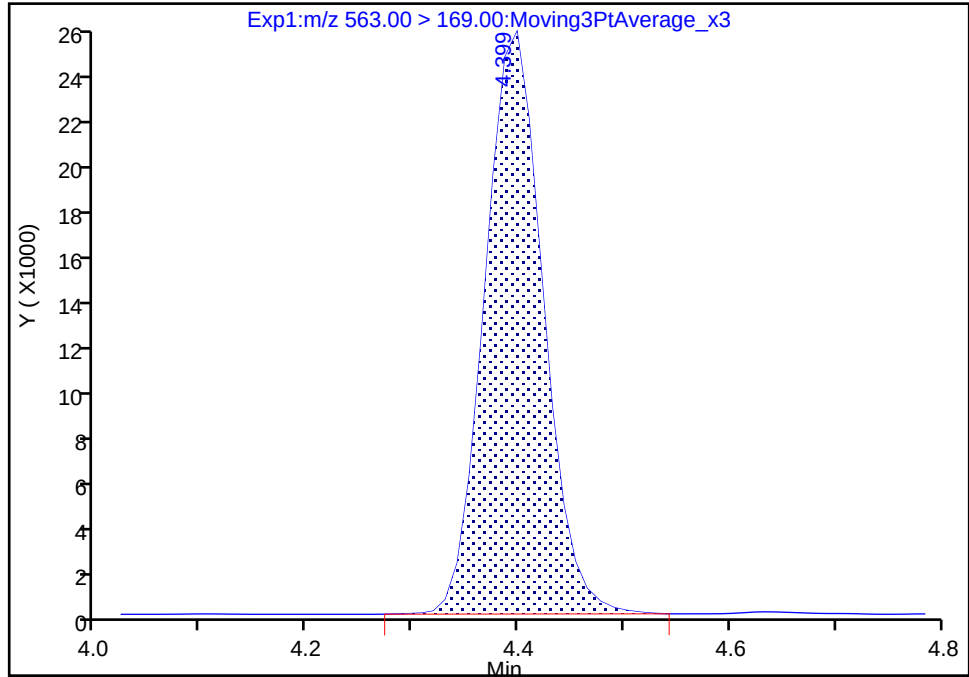
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

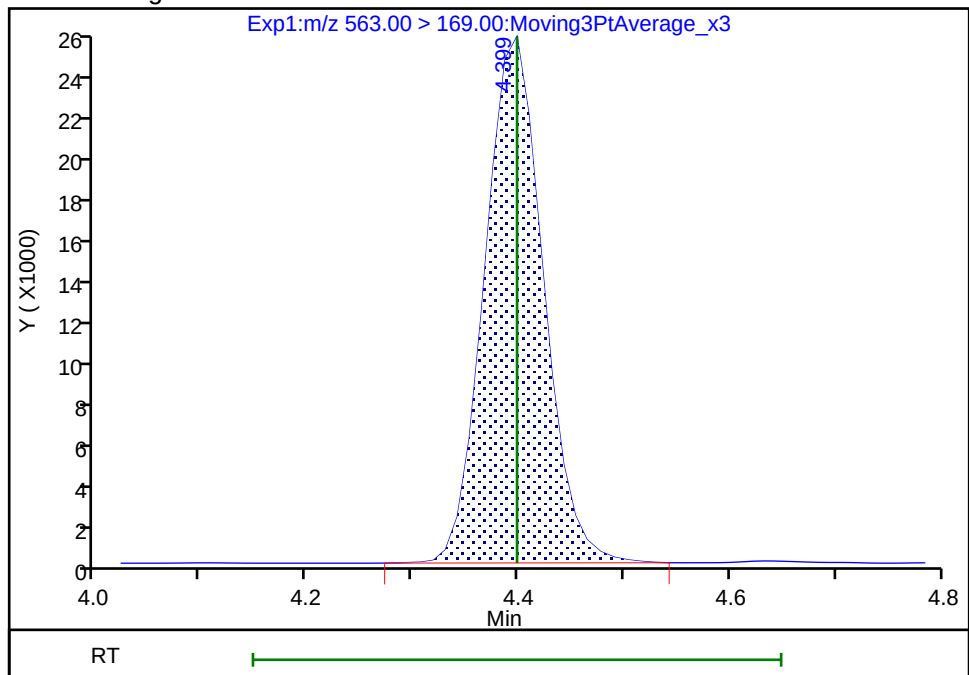
RT: 4.40
Area: 98371
Amount: 0.939983
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 98371
Amount: 0.968802
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 312 of 97811/21/2022
4:10 PM

Eurofins Burlington

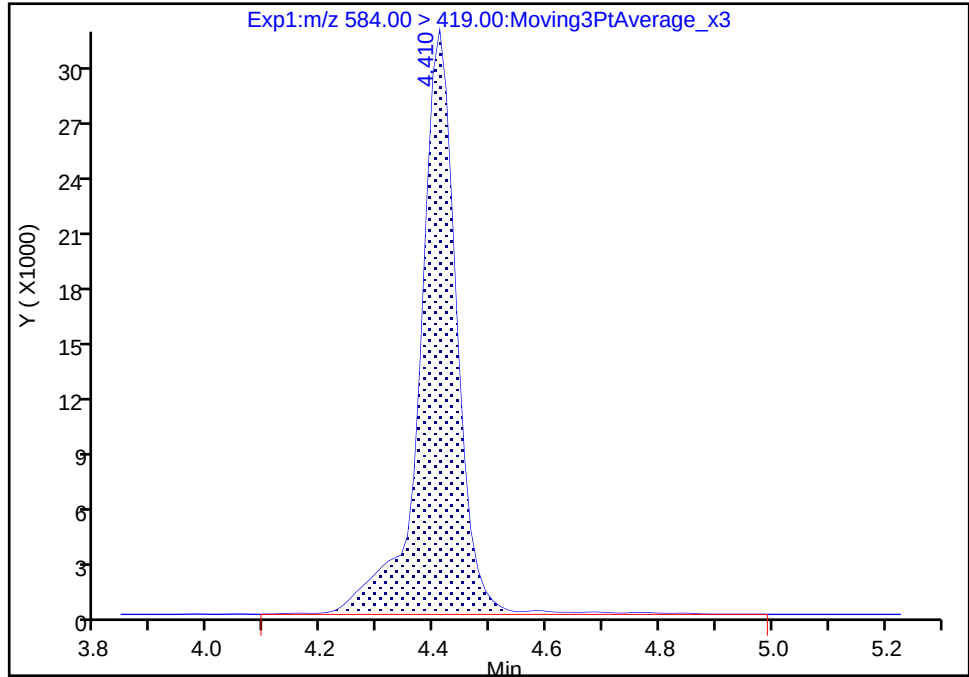
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

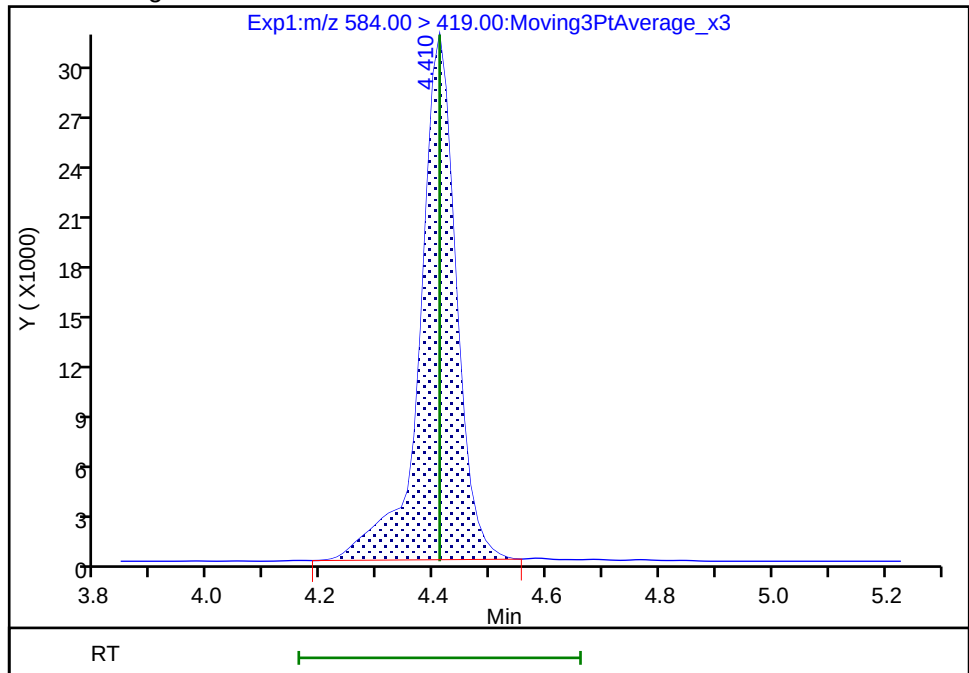
RT: 4.41
Area: 142347
Amount: 0.983240
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 138699
Amount: 0.974851
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 313 of 978

11/21/2022
4:10 PM

Eurofins Burlington

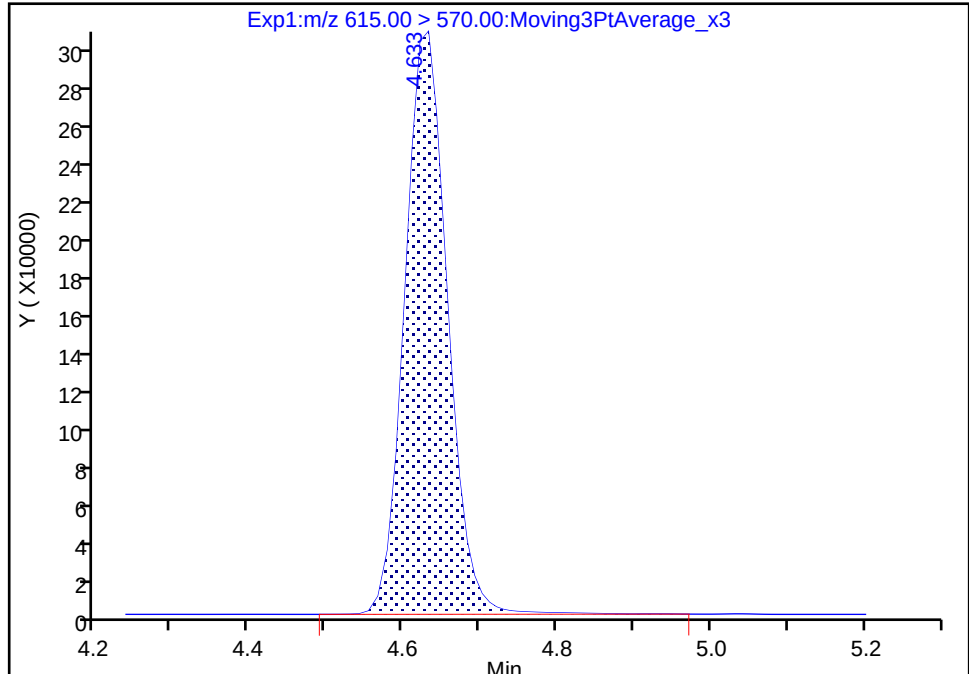
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

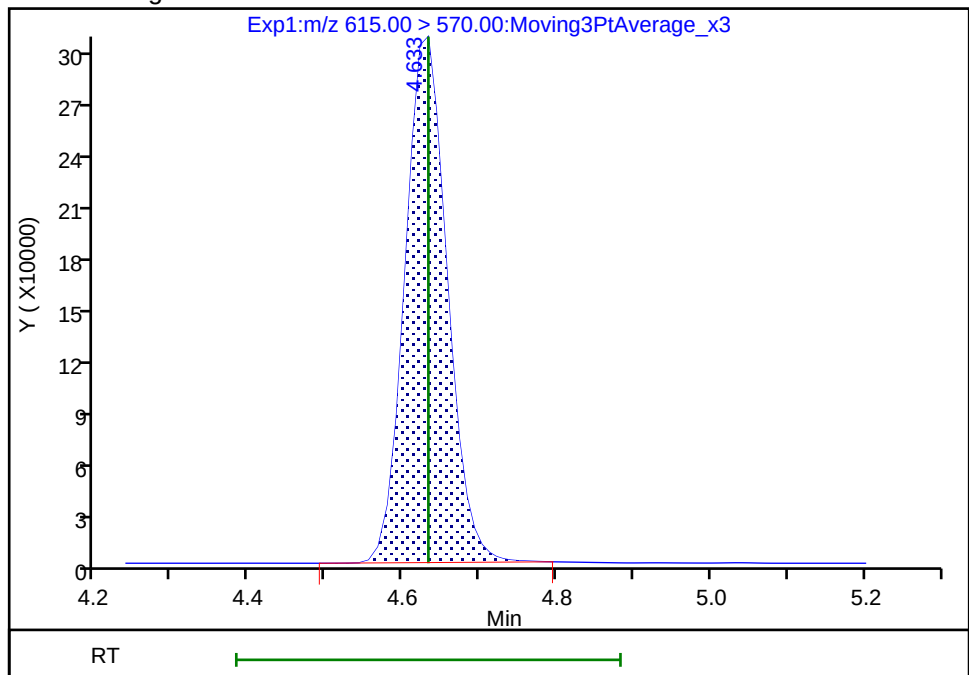
RT: 4.63
Area: 1164758
Amount: 1.298315
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 1155321
Amount: 1.293520
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 314 of 978

11/21/2022
4:10 PM

Eurofins Burlington

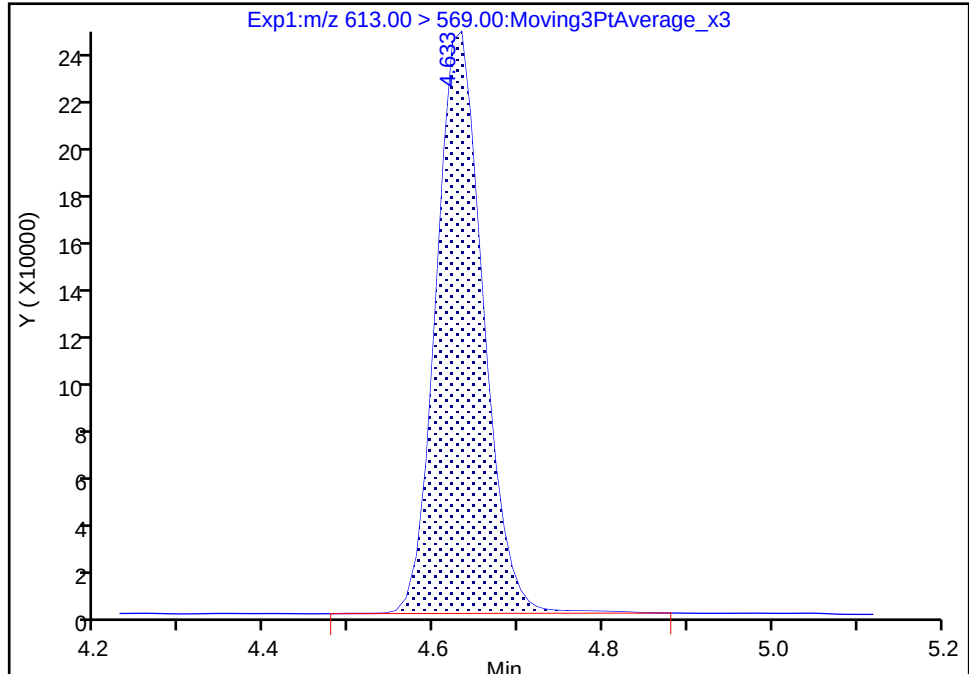
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

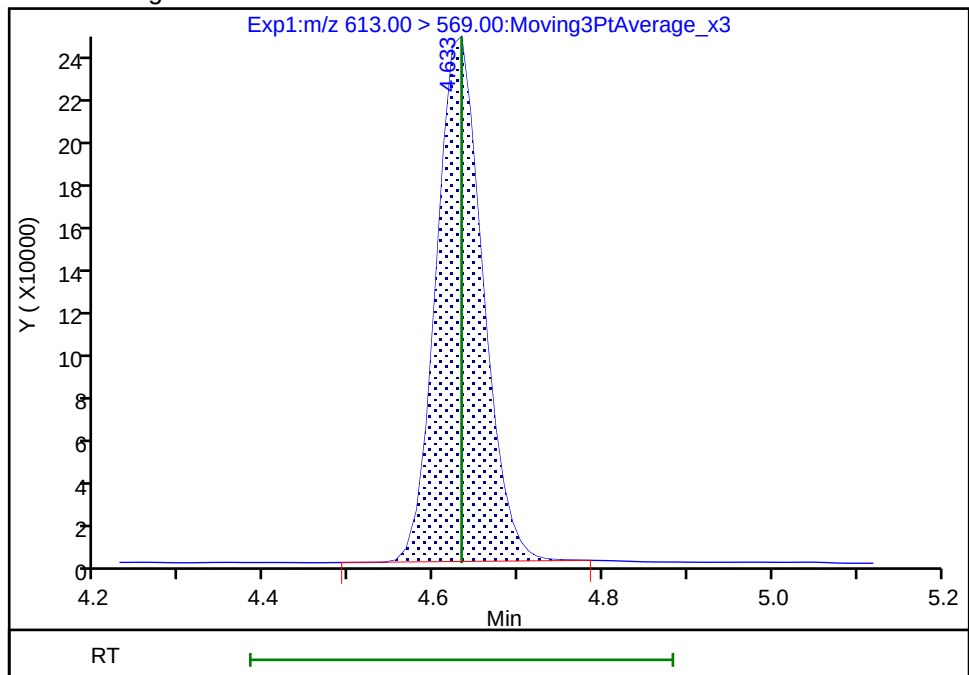
RT: 4.63
Area: 932679
Amount: 0.912532
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 922842
Amount: 0.934389
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 315 of 978

11/21/2022
4:10 PM

Eurofins Burlington

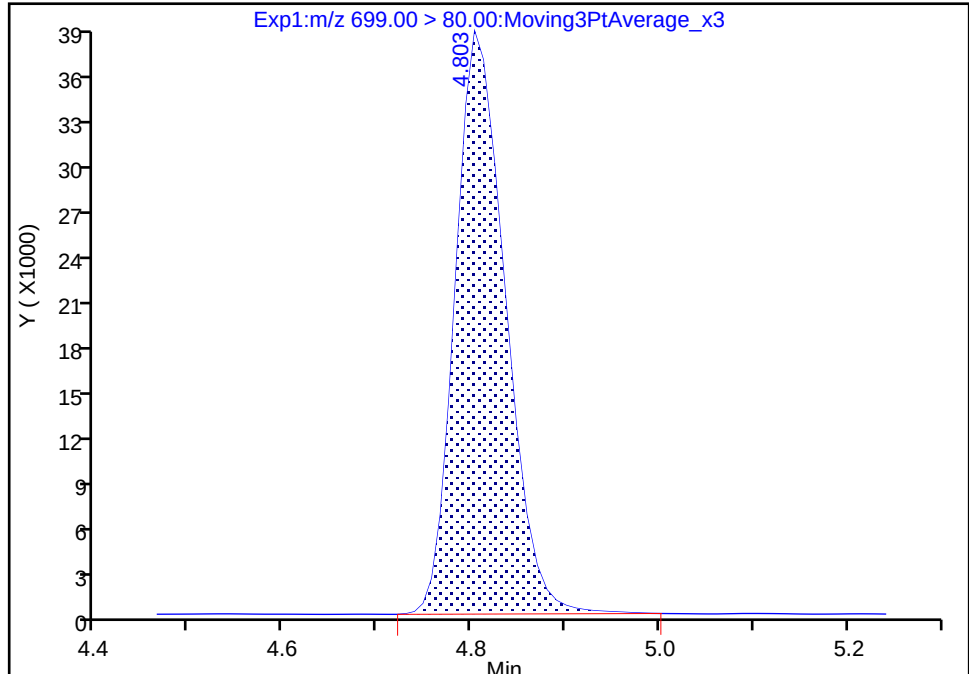
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

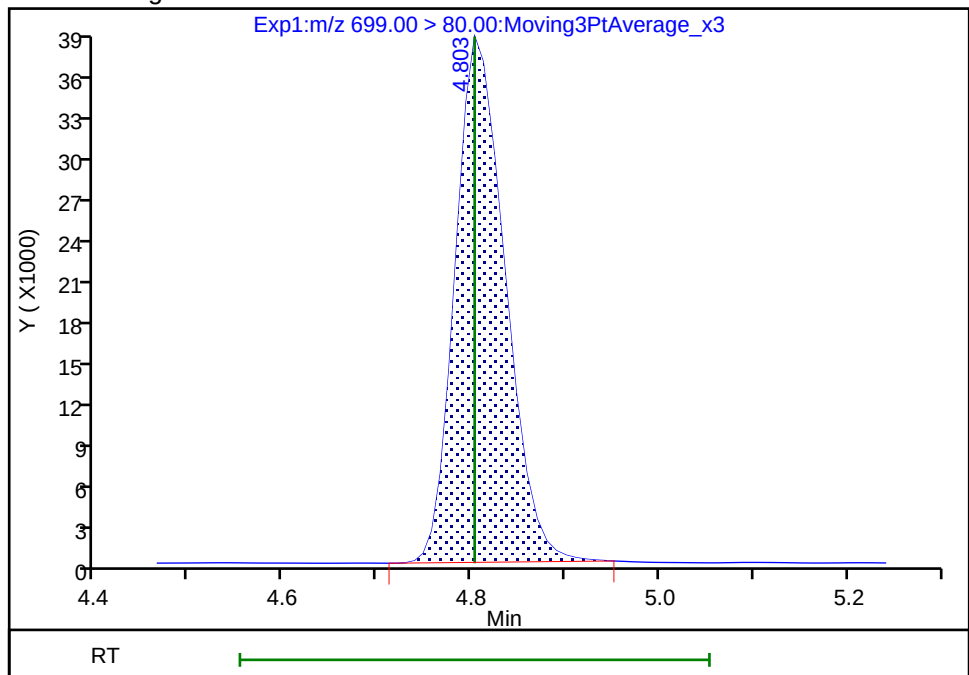
RT: 4.80
Area: 141448
Amount: 0.943387
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 140459
Amount: 0.975088
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 316 of 978

11/21/2022
4:10 PM

Eurofins Burlington

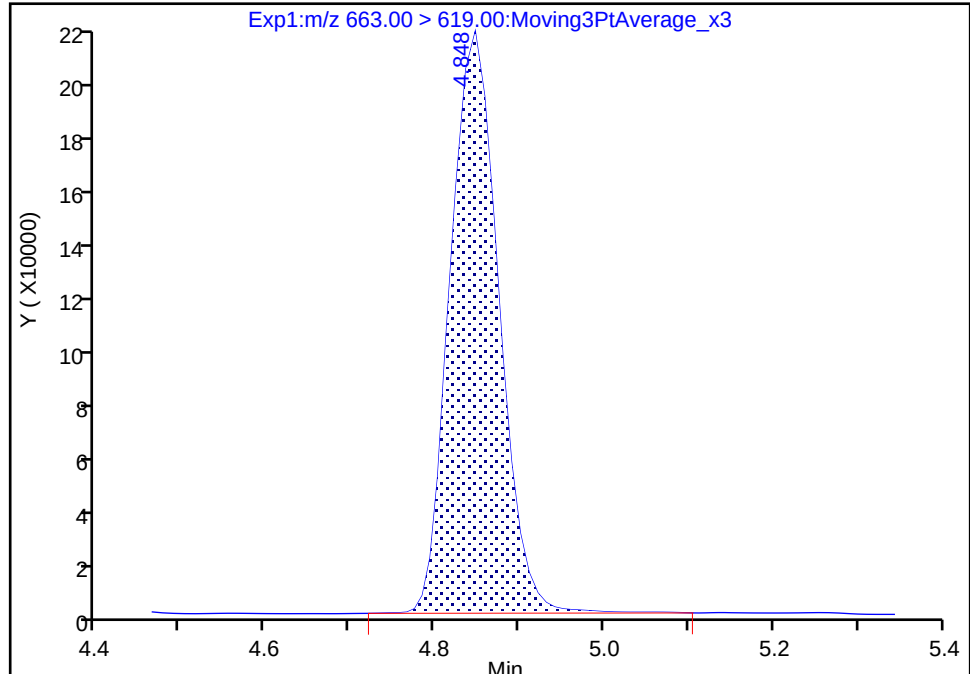
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

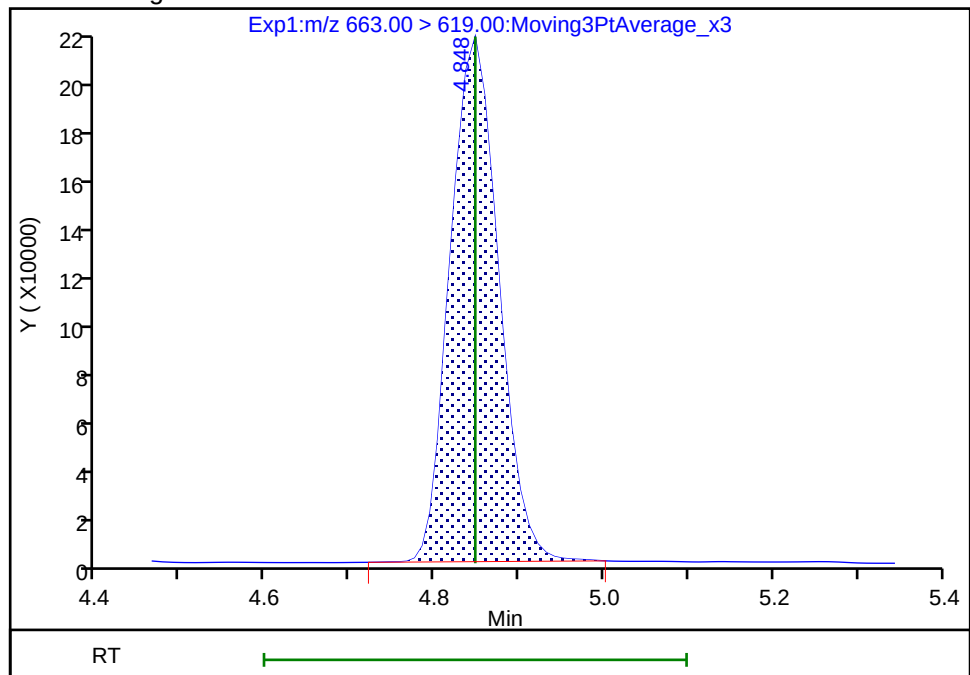
RT: 4.85
Area: 842251
Amount: 0.913165
Amount Units: ng/ml

Processing Integration Results



RT: 4.85
Area: 836789
Amount: 0.924461
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 317 of 978

11/21/2022
4:10 PM

Eurofins Burlington

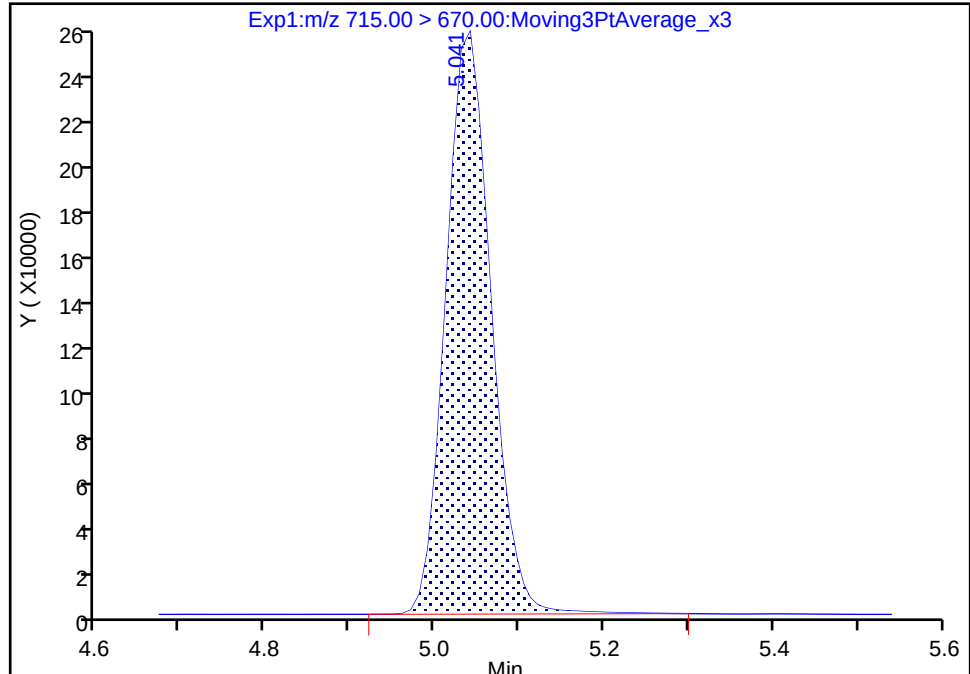
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

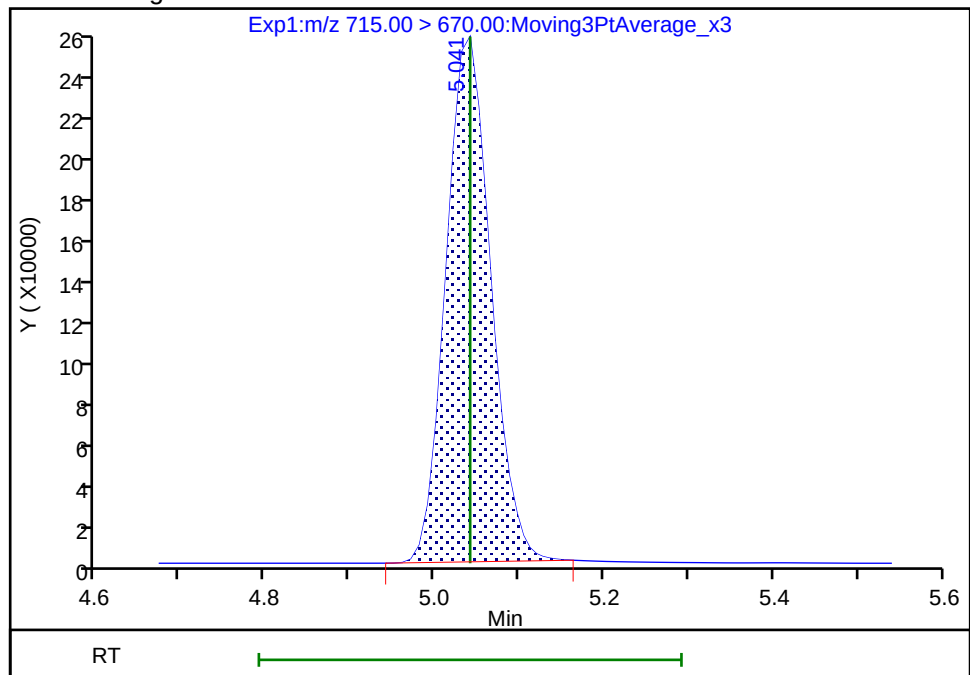
RT: 5.04
Area: 947211
Amount: 1.237246
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 935229
Amount: 1.225588
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

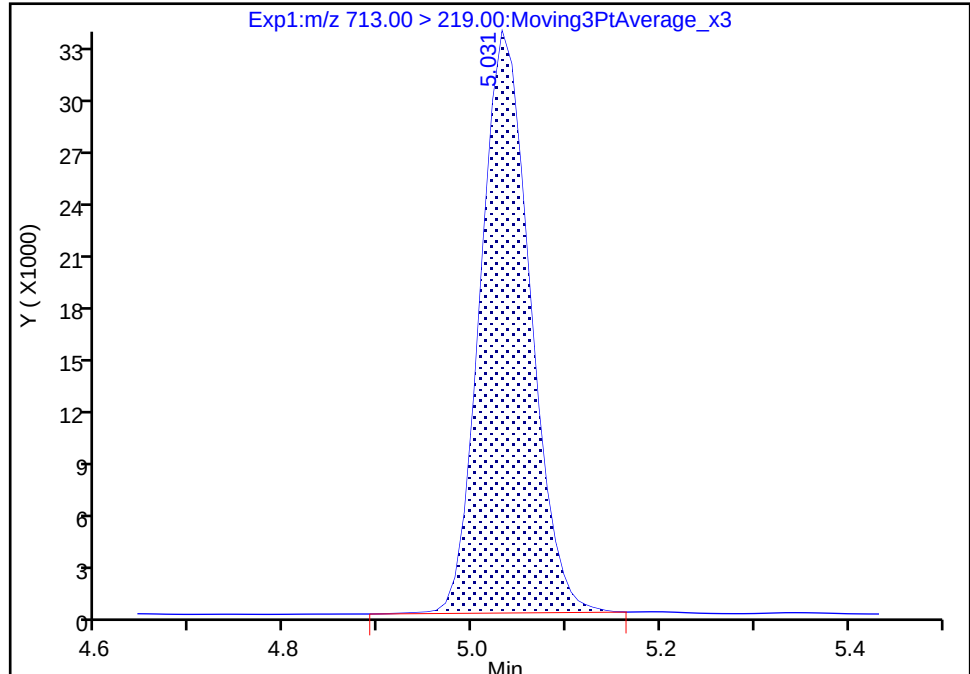
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

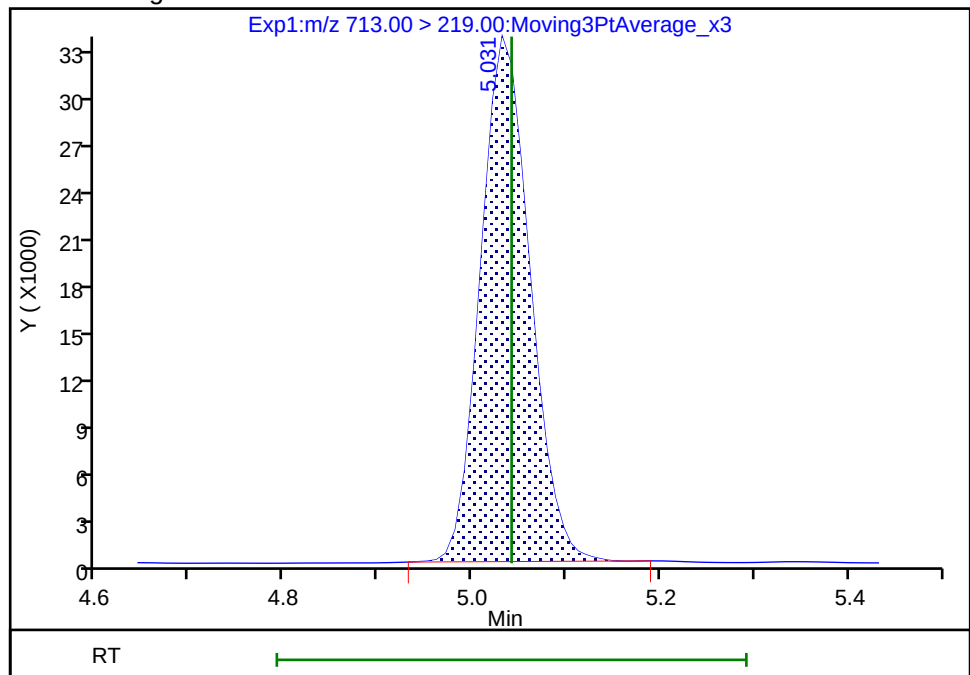
RT: 5.03
Area: 121689
Amount: 0.997869
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 121288
Amount: 1.026600
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:10:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 319 of 978

11/21/2022
4:10 PM

Eurofins Burlington

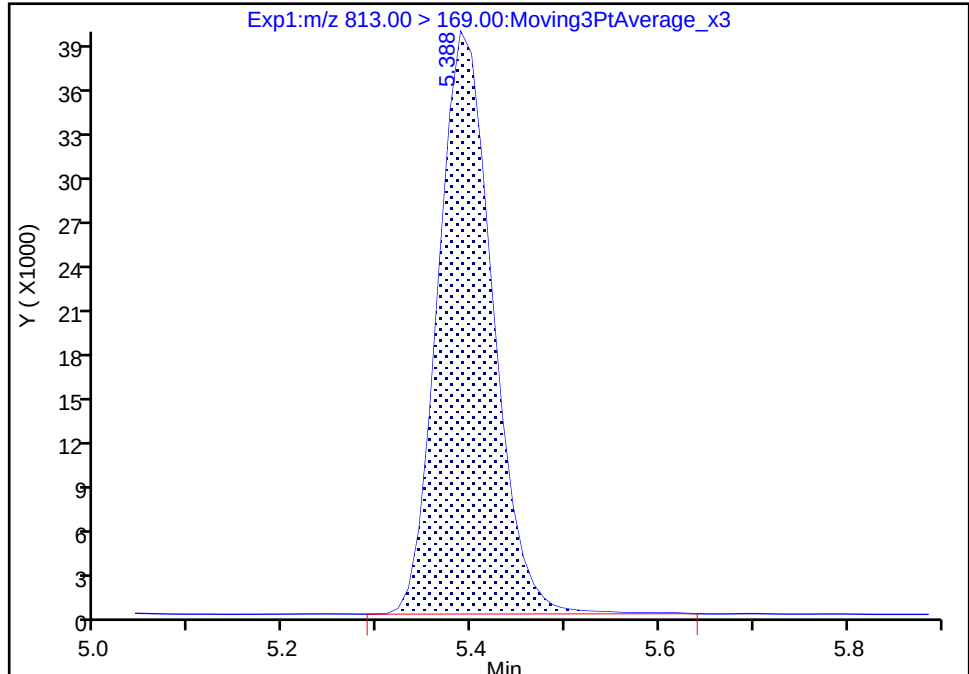
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

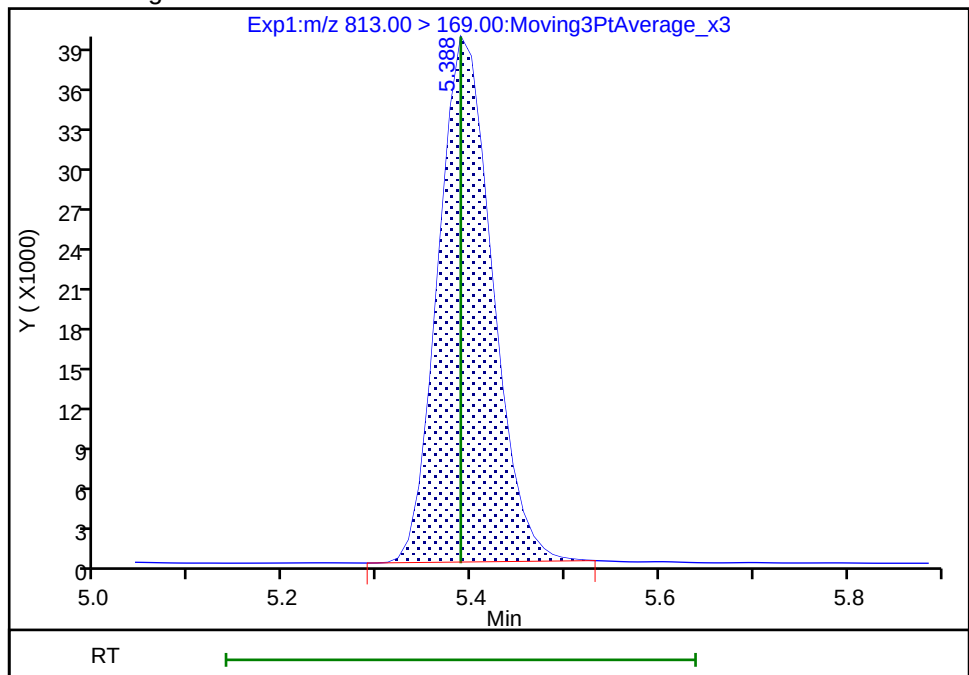
RT: 5.39
Area: 159950
Amount: 0.977631
Amount Units: ng/ml

Processing Integration Results



RT: 5.39
Area: 158271
Amount: 1.026763
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:11:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 320 of 978

11/21/2022
4:10 PM

Eurofins Burlington

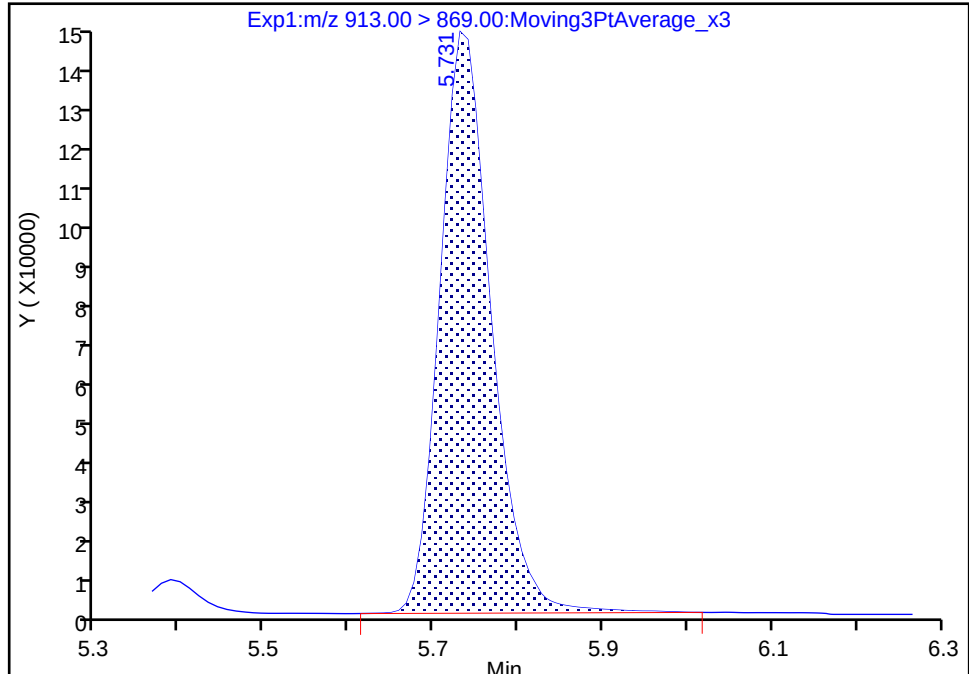
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

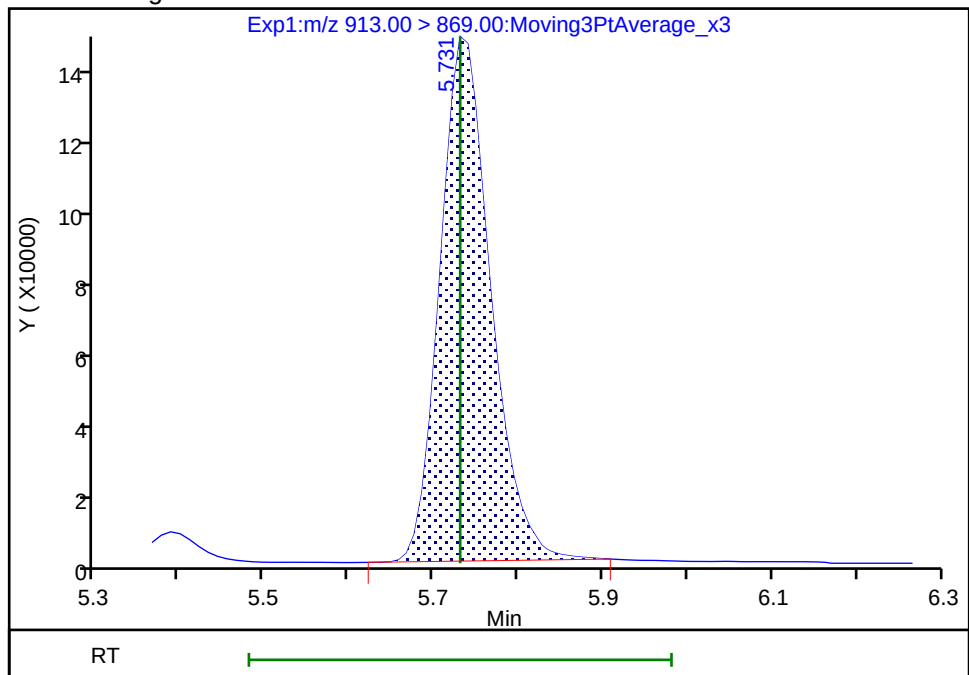
RT: 5.73
Area: 590178
Amount: 0.944688
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 581778
Amount: 0.952855
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:11:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 321 of 978

11/21/2022
4:10 PM

Eurofins Burlington

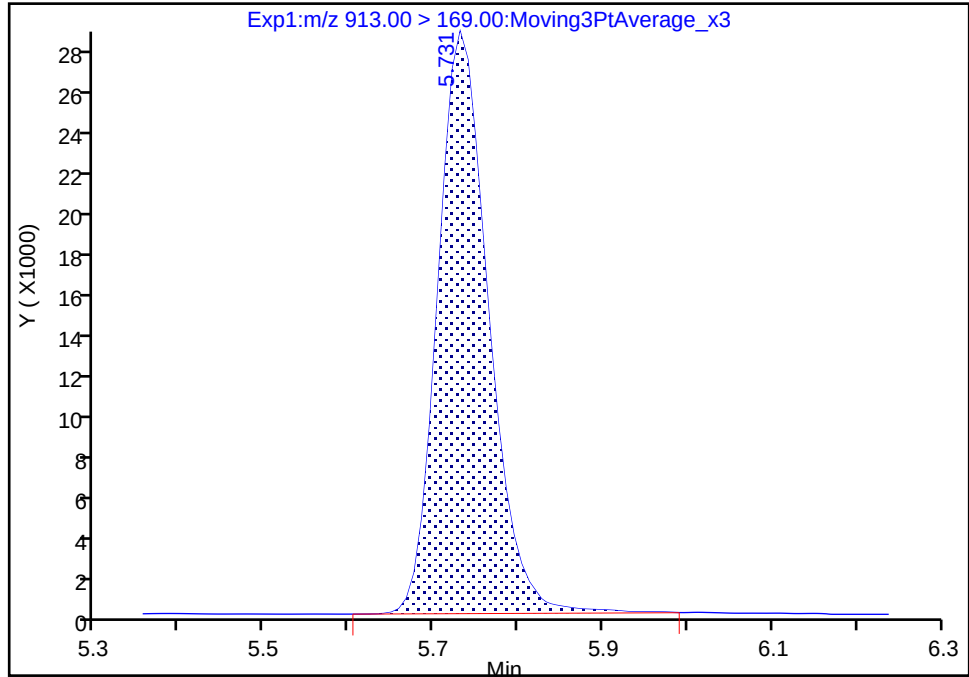
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL08.d
Injection Date: 14-Sep-2022 10:58:11 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

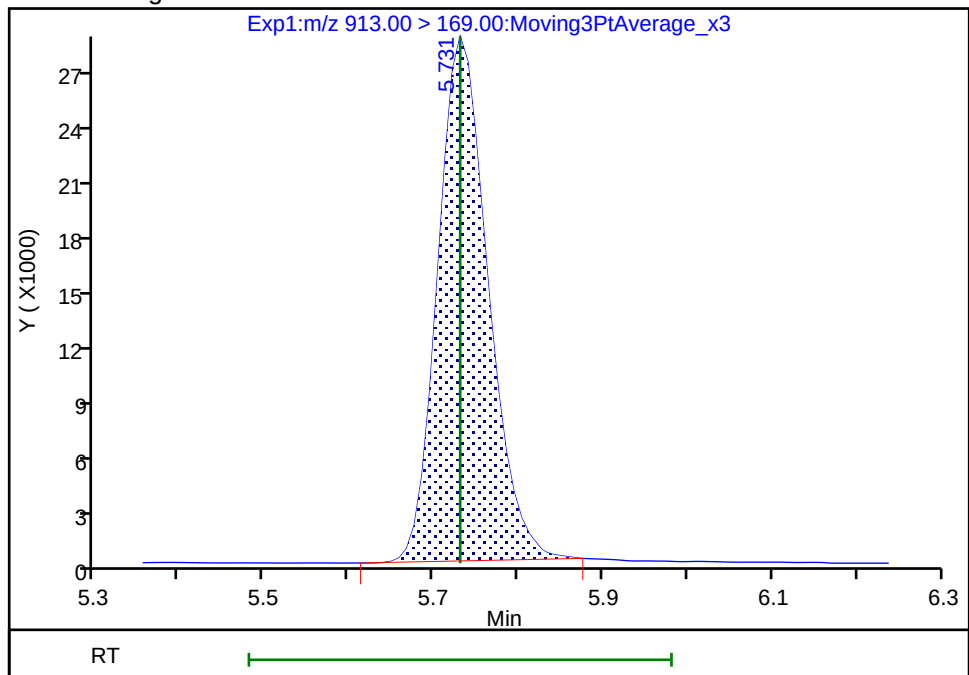
RT: 5.73
Area: 120897
Amount: 0.944688
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 118660
Amount: 0.952855
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:11:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 322 of 97811/21/2022
4:10 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-Sep-2022 11:06:22 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0052438-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:44 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 11:27:18

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	2.094	2.093	0.001	0.601	1754738	1.25		99.8	10313	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.102	2.102	0.0	1.004	3342049	2.35		94.1	397	
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.413	-0.013	0.689	1335376	1.21		96.6	2549	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.413	-0.013	1.000	2748256	2.40		96.2	91.8	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.426	-0.013	0.693	1259228	1.12		96.6	192762	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.413	2.426	-0.013	1.000	2794132	2.24	Target=2.15	101	2651	
298.90 > 99.00	2.413	2.426	-0.013	1.000	1283163		2.18(1.07-3.22)	101	1103	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.713	2.725	-0.012	0.779	117073	1.15		98.7	136	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.713	2.725	-0.012	1.000	601981	2.21		94.8	2351	
D 7 13C2 PFHxA										
315.00 > 270.00	2.750	2.762	-0.012	0.790	1425483	1.27		101	3301	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.750	2.762	-0.012	1.000	3042002	2.46	Target=13.89	98.3	632	M
313.00 > 119.00	2.750	2.762	-0.012	1.000	223745		13.60(6.95-20.84)	98.3	339	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.750	2.774	-0.024	0.881	2434557	2.27	Target=3.05	96.6	1533	M
349.00 > 99.00	2.750	2.774	-0.024	0.881	810233		3.00(1.53-4.58)	96.6	1179	M
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.859	2.871	-0.012	1.000	513988	2.21		88.4	1296	

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	2.859	2.871	-0.012	0.821	266054	1.26		101	1348	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.132	-0.011	1.000	2892996	2.41	Target=4.00	96.5	782	M
363.00 > 169.00	3.121	3.132	-0.011	1.000	722459		4.00(2.00-6.00)	96.5	982	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.132	-0.011	0.896	1345401	1.22		97.4	2783	
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.132	-0.011	0.896	925652	1.16		97.8	1730	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.132	-0.011	1.000	1885812	2.07	Target=3.63	91.0	1280	M
399.00 > 99.00	3.110	3.132	-0.022	0.996	515956		3.65(1.82-5.45)	91.0	692	M
77 DONA										M
377.00 > 251.00	3.154	3.165	-0.011	0.830	6429389	2.27	Target=3.03	96.3	1819	M
377.00 > 85.00	3.154	3.165	-0.011	0.830	2166665		2.97(1.52-4.55)	96.3	1459	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.465	3.473	-0.008	0.911	1566895	2.18	Target=5.20	91.7	1579	M
449.00 > 99.00	3.465	3.473	-0.008	0.911	305412		5.13(2.60-7.80)	91.7	1382	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.481	-0.016	1.000	552719	2.35		99.0	490	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.481	-0.016	0.995	153476	1.12		94.6	661	
D 14 13C4 PFOA										
417.00 > 372.00	3.474	3.490	-0.016	0.997	1446878	1.22		97.9	1277	M
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.490	-0.008		1440967	1.25			3975	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.490	-0.008	1.003	3125560	2.39	Target=2.83	95.4	246	
413.00 > 169.00	3.482	3.490	-0.008	1.003	1147136		2.72(1.41-4.24)	95.4	1229	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.801	0.001	1.000	1323207	2.14	Target=5.27	92.1	769	M
499.00 > 99.00	3.802	3.801	0.001	1.000	262960		5.03(2.64-7.91)	92.1	743	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.801	0.001	1.092	609259	1.16		96.7	1730	
20 Perfluorononanoic acid										
463.00 > 419.00	3.822	3.821	0.001	1.000	2806508	2.23	Target=8.24	89.3	735	
463.00 > 169.00	3.822	3.821	0.001	1.000	357718		7.85(4.12-12.36)	89.3	3046	
D 19 13C5 PFNA										
468.00 > 423.00	3.822	3.821	0.001	1.098	1497719	1.29		103	3919	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.969	3.969	0.0	1.044	2792593	2.25		96.4	5633	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.104	-0.011	1.076	1071939	2.37	Target=2.56	99.0	3358	
549.00 > 99.00	4.093	4.104	-0.011	1.076	413690		2.59(1.28-3.84)	99.0	1878	
D 23 13C2 PFDA										
515.00 > 470.00	4.127	4.127	0.0	1.185	1462783	1.29		104	2224	

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	4.127	4.127	0.0	1.000	2934763	2.33	Target=9.84	93.3	1508	
513.00 > 169.00	4.127	4.127	0.0	1.000	296376		9.90(4.92-14.76)	93.3	978	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.138	-0.011	1.185	191116	1.18		98.8	733	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.138	-0.011	1.000	454235	2.30		95.9	929	M
D 21 13C8 FOSA										
506.00 > 78.00	4.184	4.184	0.0	1.202	1128734	1.23		98.1	2132	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.184	4.196	-0.012	1.000	2258072	2.48		99.0	2132	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.261	4.273	-0.012	1.224	196670	1.24		98.9	447	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.273	4.273	0.0	1.003	346259	2.38		95.2	706	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.365	4.365	0.0	1.148	807468	2.30	Target=2.77	95.2	2492	
599.00 > 99.00	4.365	4.365	0.0	1.148	301488		2.68(1.38-4.15)	95.2	1394	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.399	4.399	0.0	1.263	1096415	1.19		94.8	1657	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.399	4.399	0.0	1.263	188668	1.19		95.6	791	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.399	4.399	0.0	1.000	2284435	2.50	Target=9.37	99.9	1233	
563.00 > 169.00	4.399	4.399	0.0	1.000	224668		10.17(4.68-14.05)	99.9	1002	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.410	4.410	0.0	1.003	339355	2.46		98.4	761	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.491	4.491	0.0	1.181	3691001	2.28		96.9	5675	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.633	4.633	0.0	1.000	2236229	2.39	Target=7.06	95.5	328	M
613.00 > 169.00	4.633	4.633	0.0	1.000	331406		6.75(3.53-10.59)	95.5	1907	
D 36 13C2 PFDoA										
615.00 > 570.00	4.633	4.633	0.0	1.330	1095823	1.21		97.2	2191	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.654	4.653	0.001	1.128	247638	2.31		95.7	1121	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.803	4.803	0.0	1.263	319396	2.23	Target=0.51	92.3	1628	
699.00 > 99.00	4.803	4.803	0.0	1.263	640623		0.50(0.25-0.76)	92.3	1745	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.848	4.848	0.0	1.046	2112532	2.46	Target=5.01	98.4	305	
663.00 > 169.00	4.848	4.848	0.0	1.046	417227		5.06(2.50-7.51)	98.4	2193	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.042	5.041	0.001	1.000	280815	2.43	Target=0.95	97.1	2225	
713.00 > 219.00	5.032	5.041	-0.009	0.998	301832		0.93(0.47-1.42)	97.1	2584	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.042	5.041	0.001	1.448	929944	1.21		96.5	1685	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.400	5.388	0.012	1.000	1939602	2.66	Target=4.99	106	429	
813.00 > 169.00	5.400	5.388	0.012	1.000	393340		4.93(2.49-7.48)	106	2584	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.400	5.388	0.012	1.551	1018455	1.20		95.7	2327	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.740	5.731	0.009	1.063	1496697	2.54	Target=5.05	102	329	
913.00 > 169.00	5.740	5.731	0.009	1.063	297106		5.04(2.53-7.58)	102	920	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00029

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d

Injection Date: 14-Sep-2022 11:06:22

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

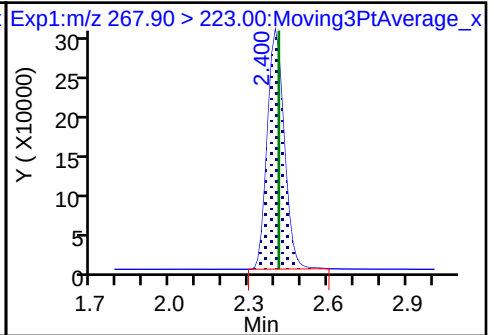
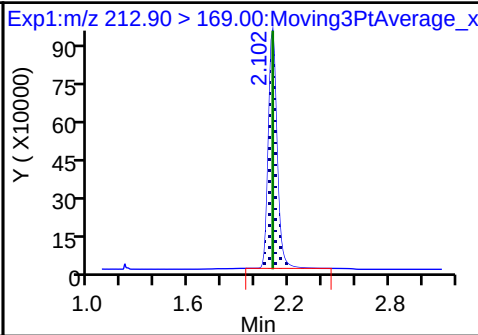
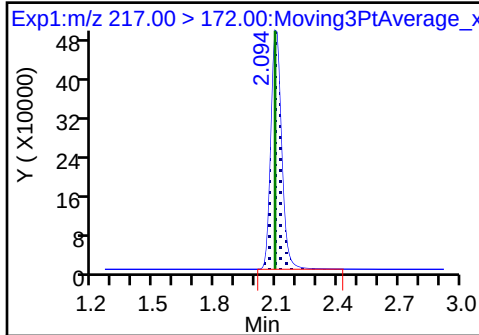
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

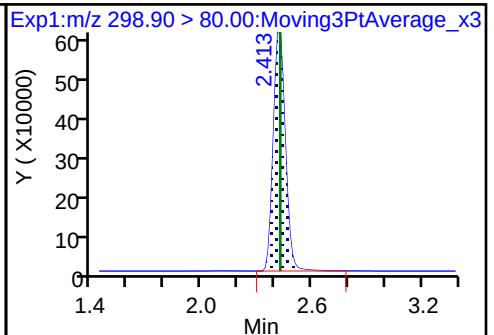
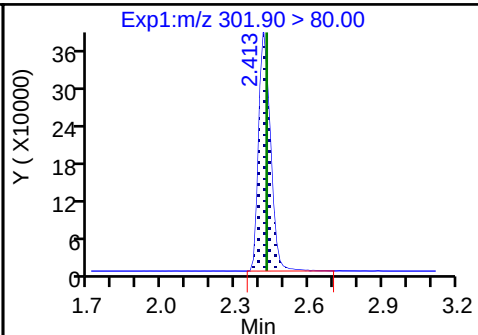
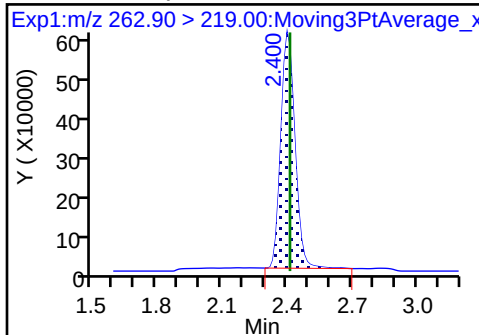
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

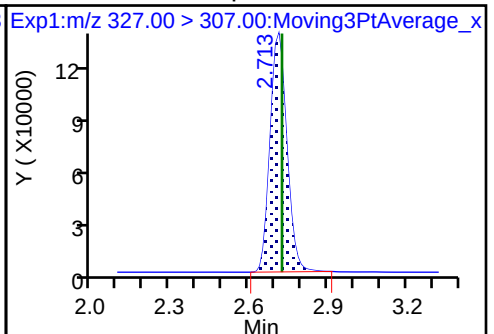
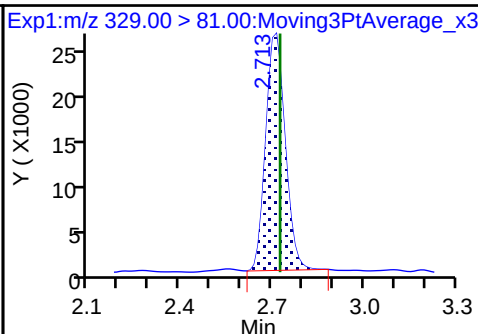
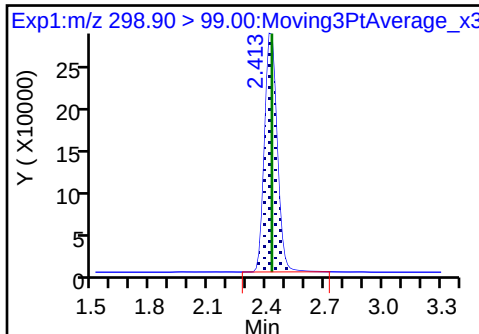
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

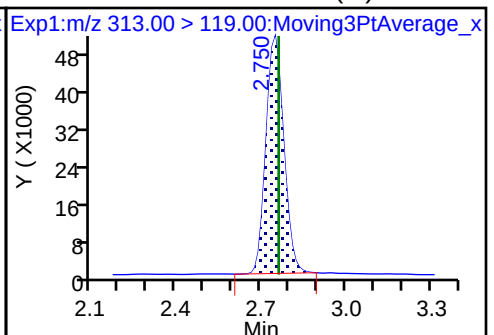
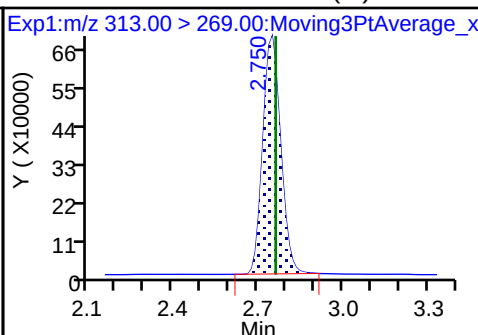
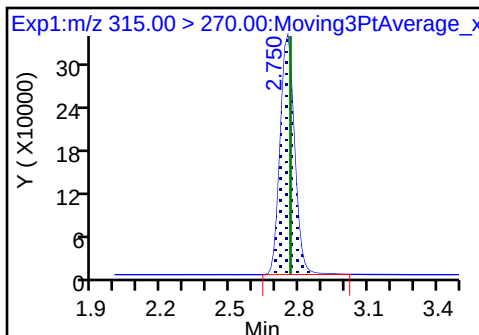
61 1H,1H,2H,2H-perfluorohexanesulfo



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

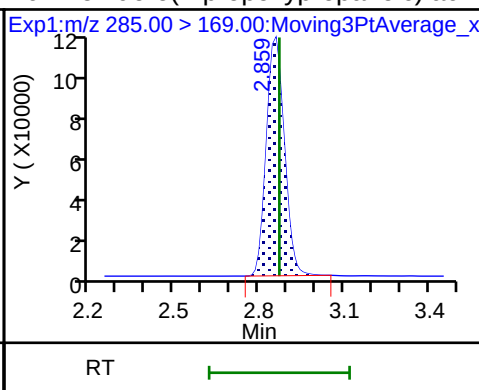
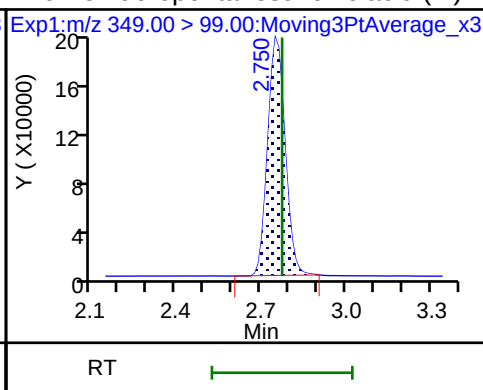
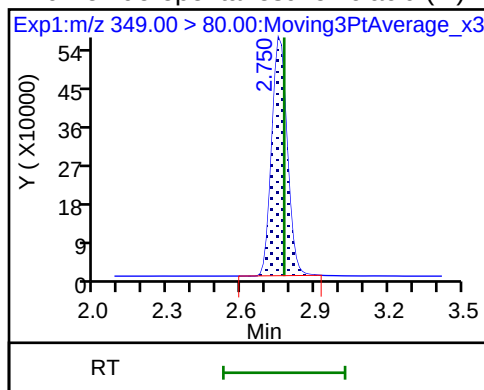
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

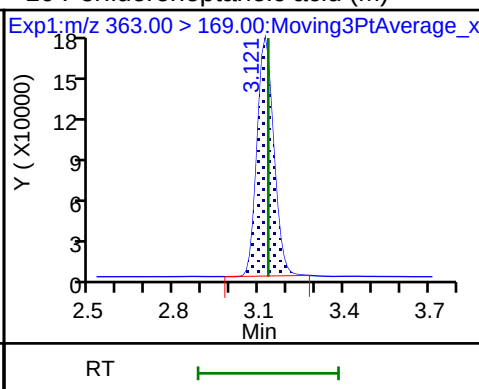
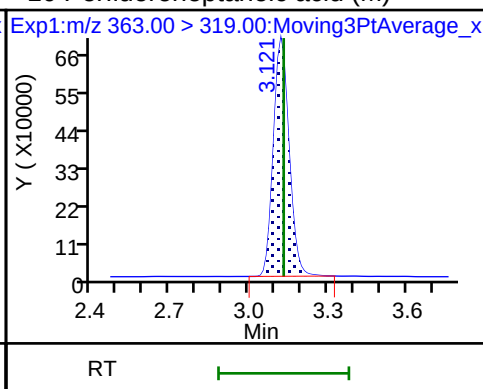
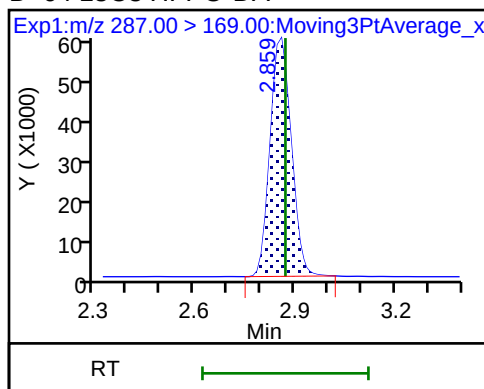
67 Perfluoro(2-propoxypropanoic) ac



D 64 13C3 HFPO-DA

10 Perfluoroheptanoic acid (M)

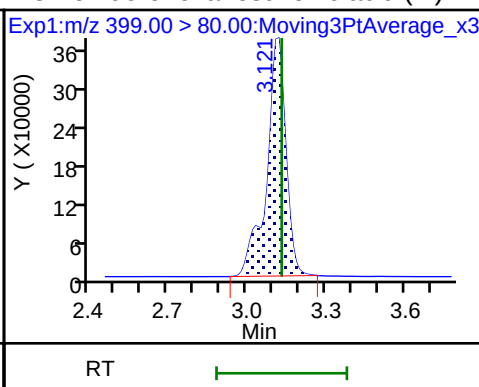
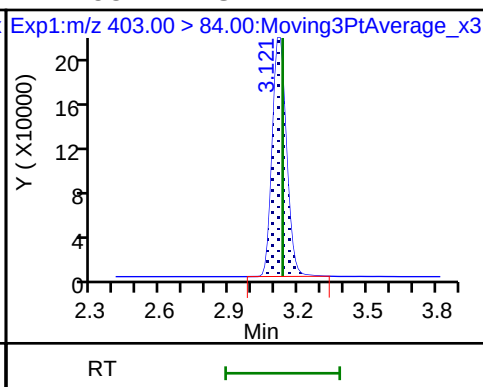
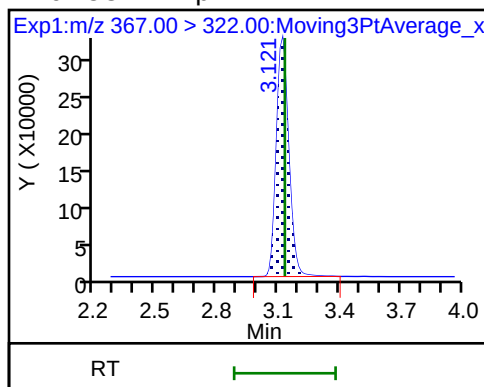
10 Perfluoroheptanoic acid (M)



D 9 13C4 PFHpA

D 11 18O2 PFHxS

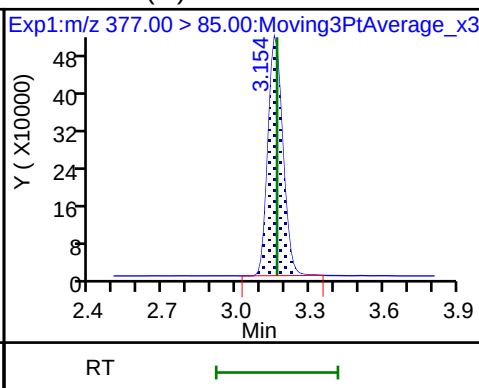
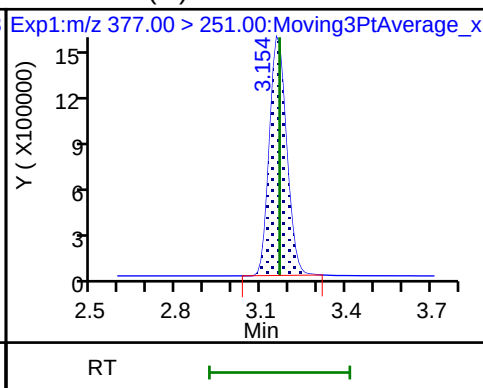
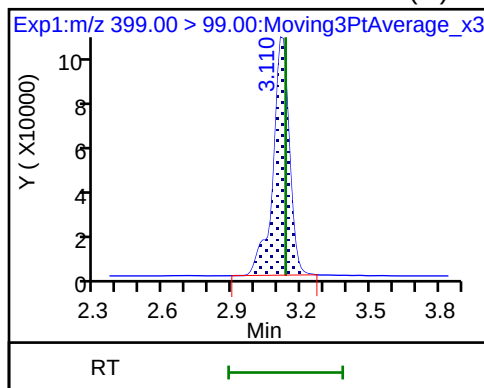
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

77 DONA (M)

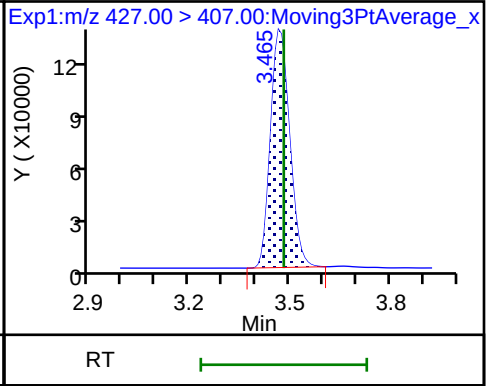
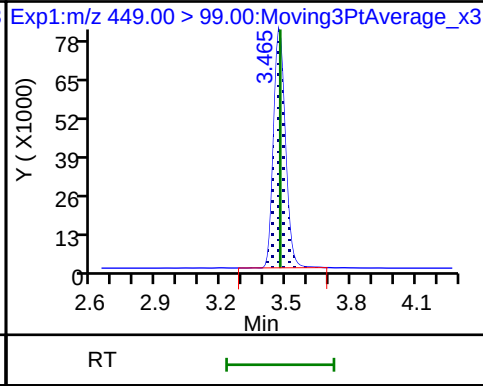
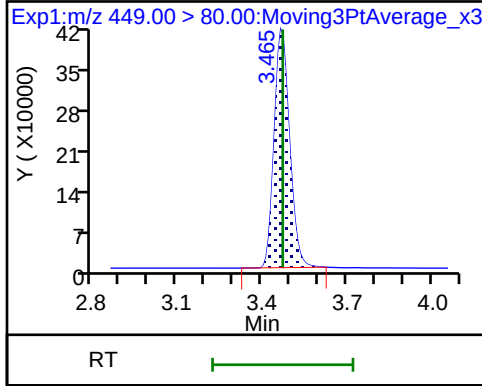
77 DONA (M)



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

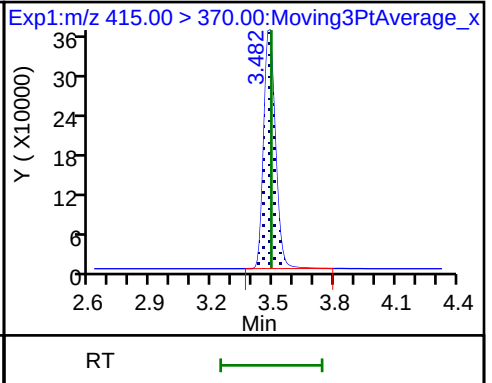
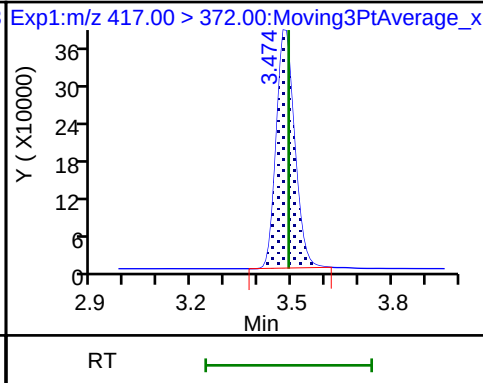
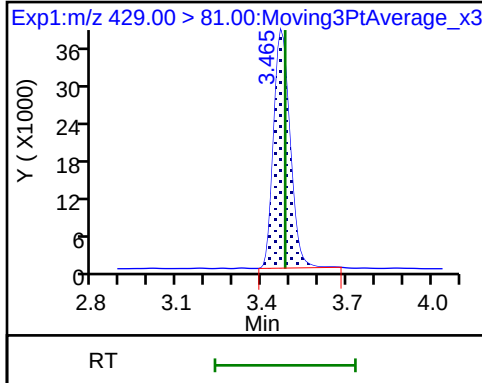
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA (M)

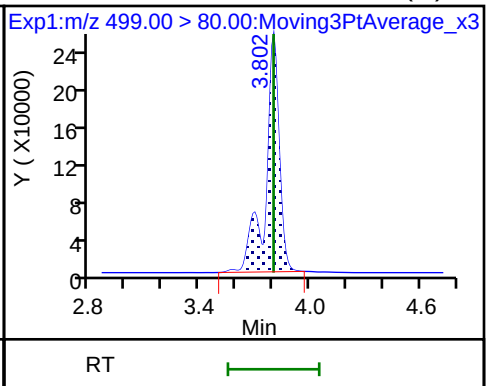
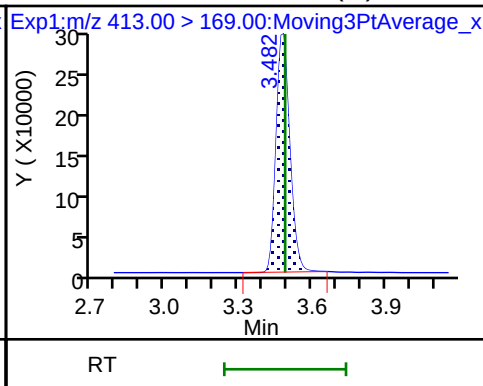
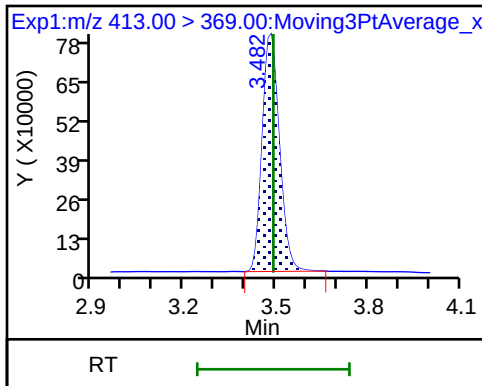
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

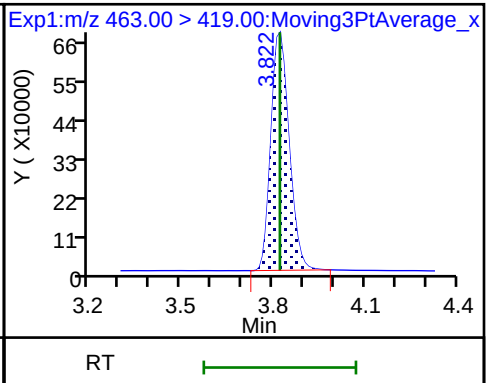
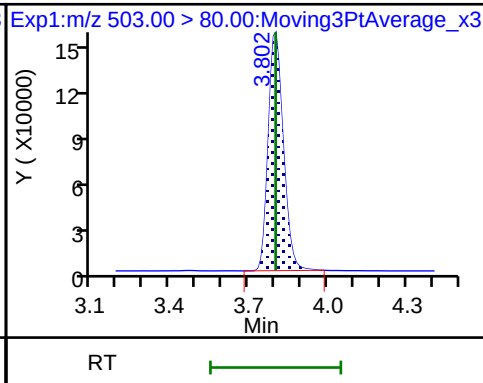
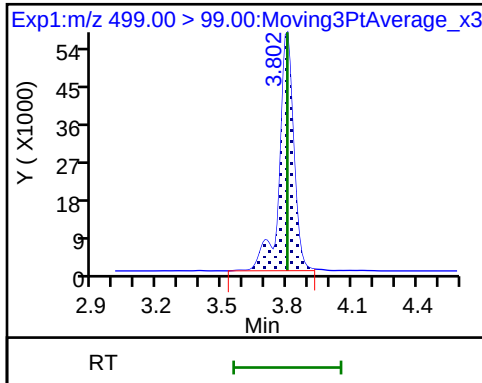
17 Perfluorooctanesulfonic acid (M)

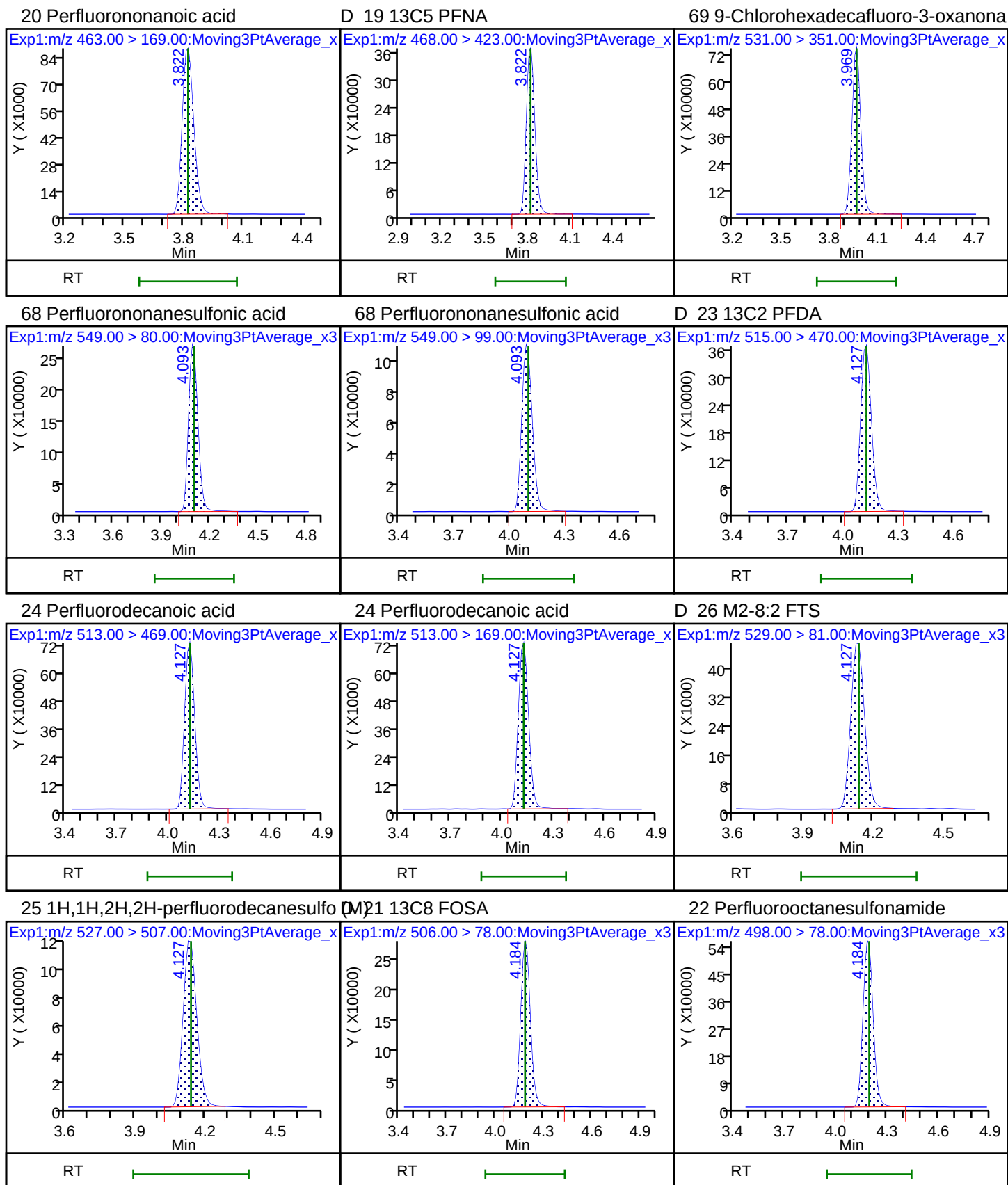


17 Perfluorooctanesulfonic acid (M)

D 18 13C4 PFOS

20 Perfluorononanoic acid

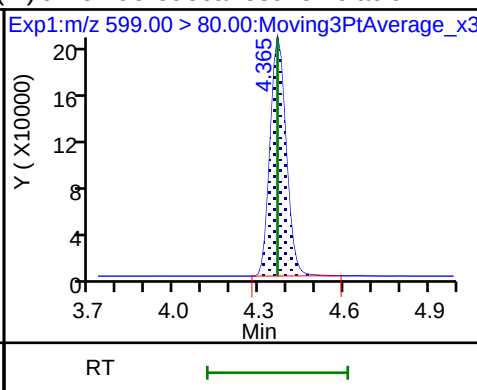
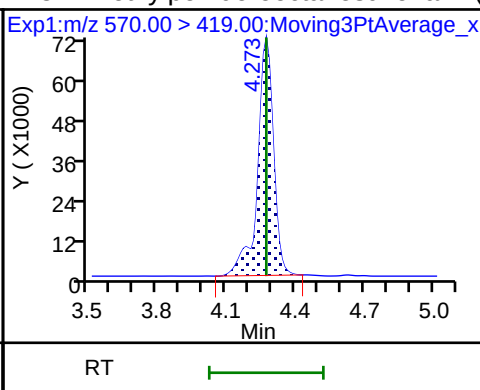
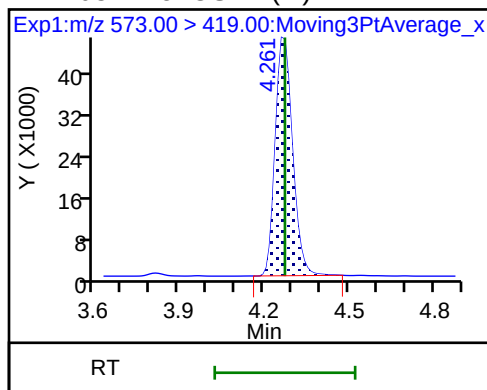




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

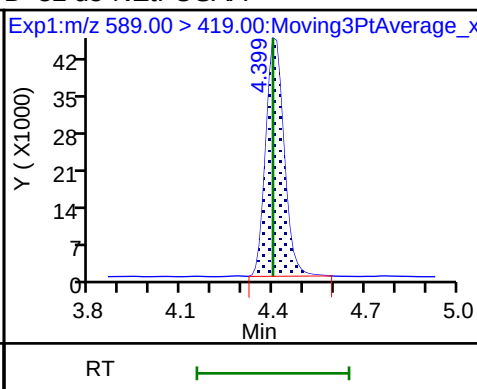
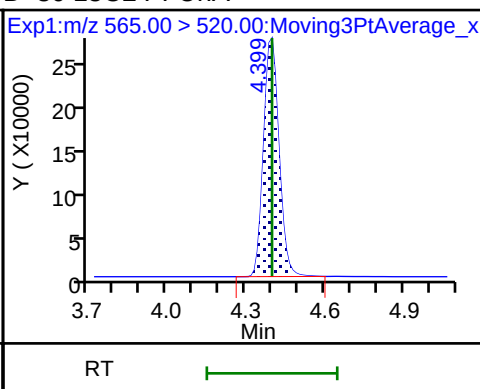
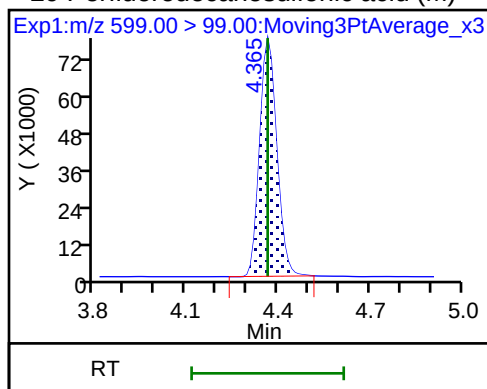
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

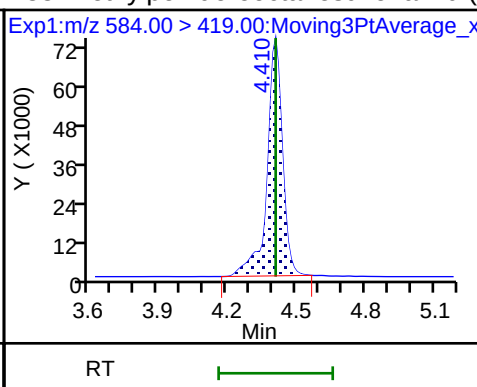
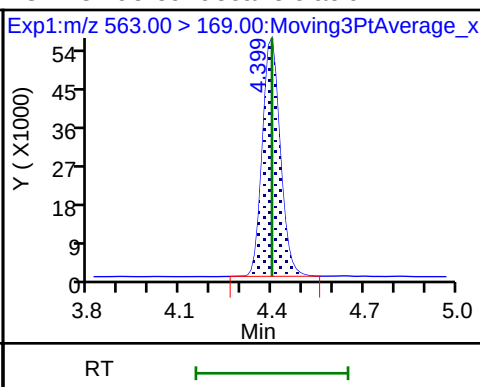
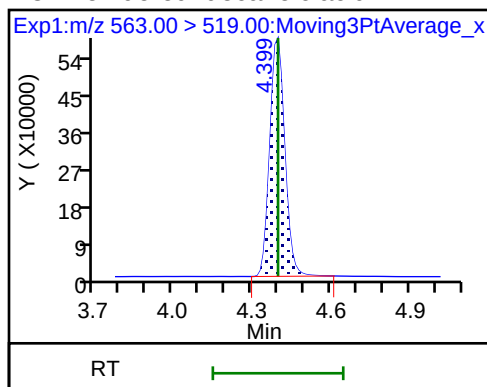
D 32 d5-NEtFOSAA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid

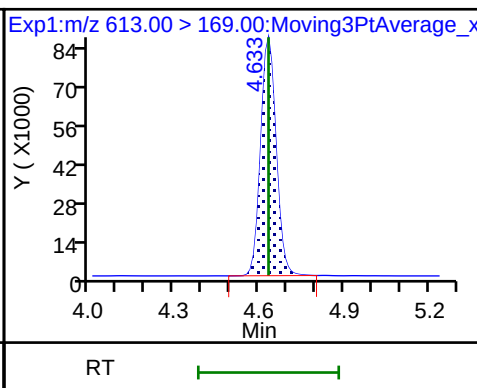
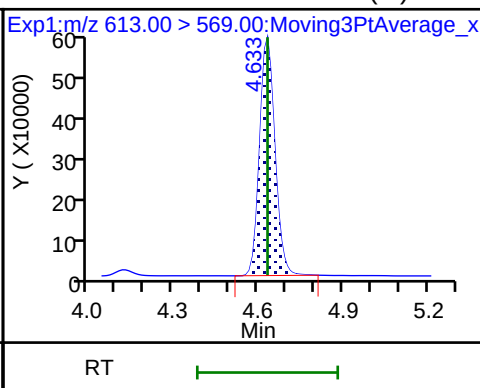
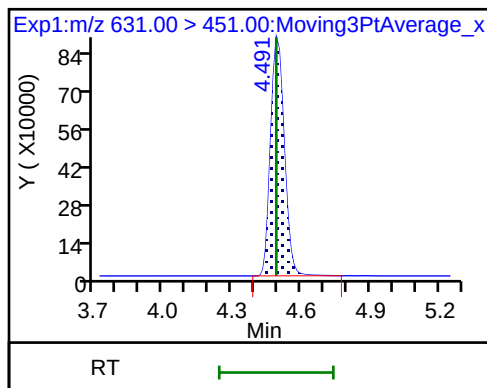
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

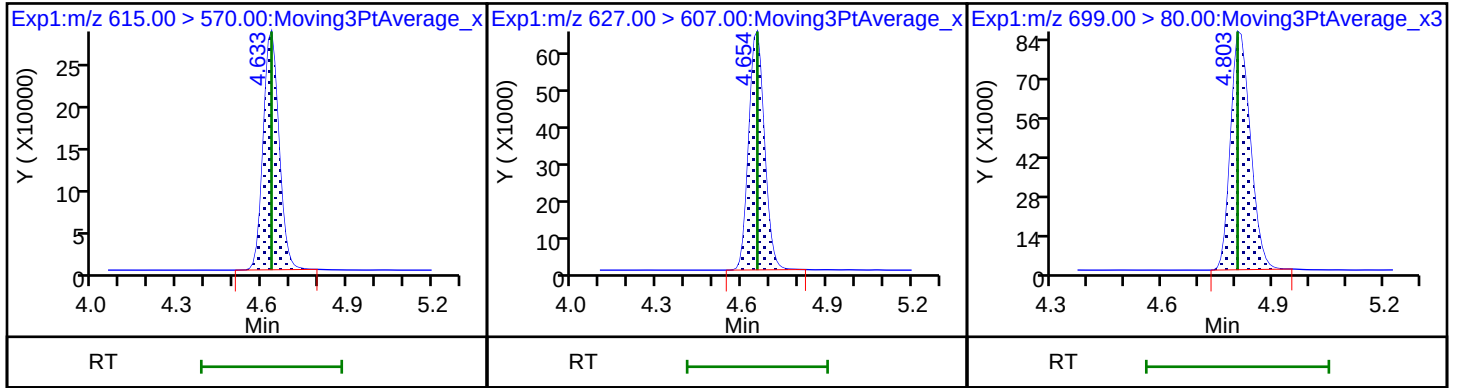
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid



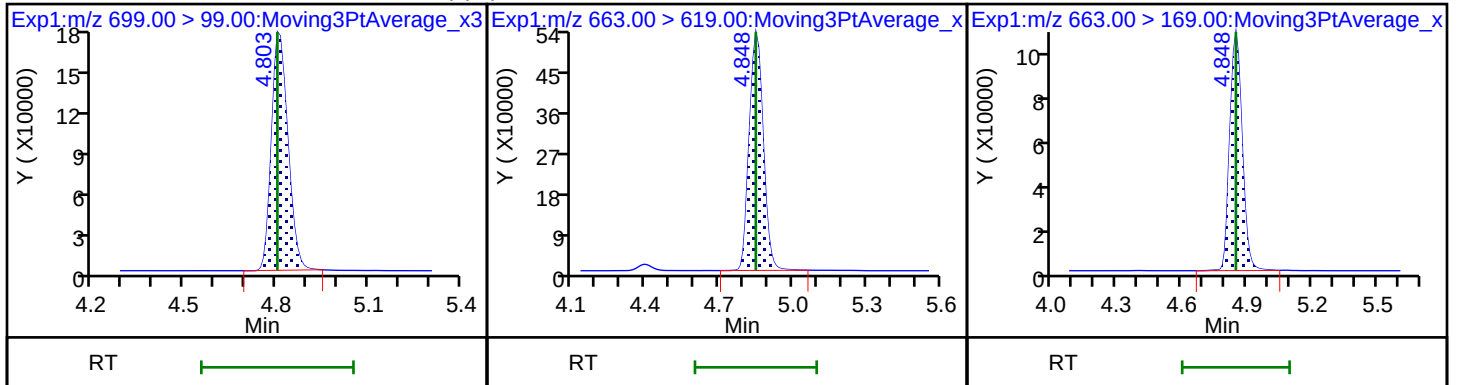
D 36 13C2 PFDaA

74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid

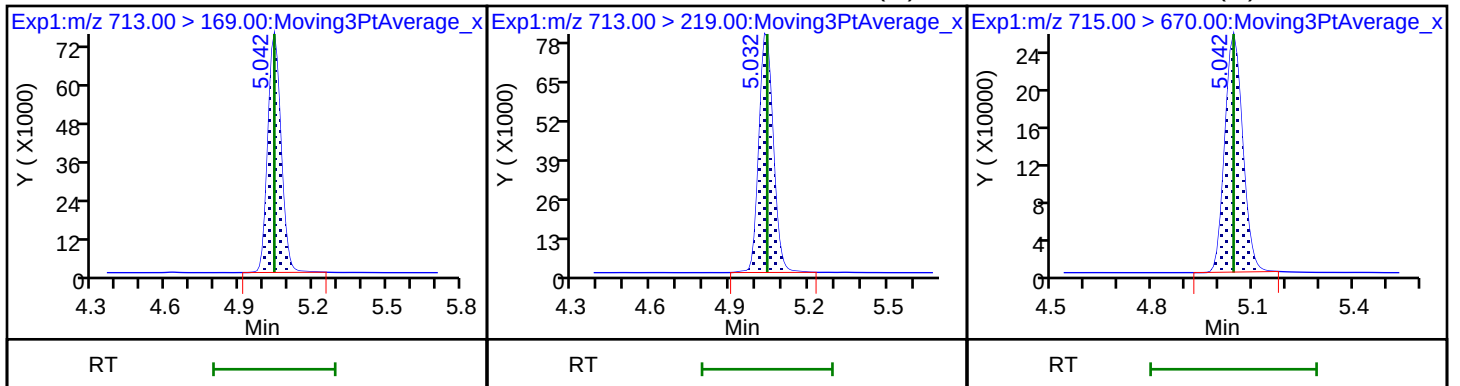
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

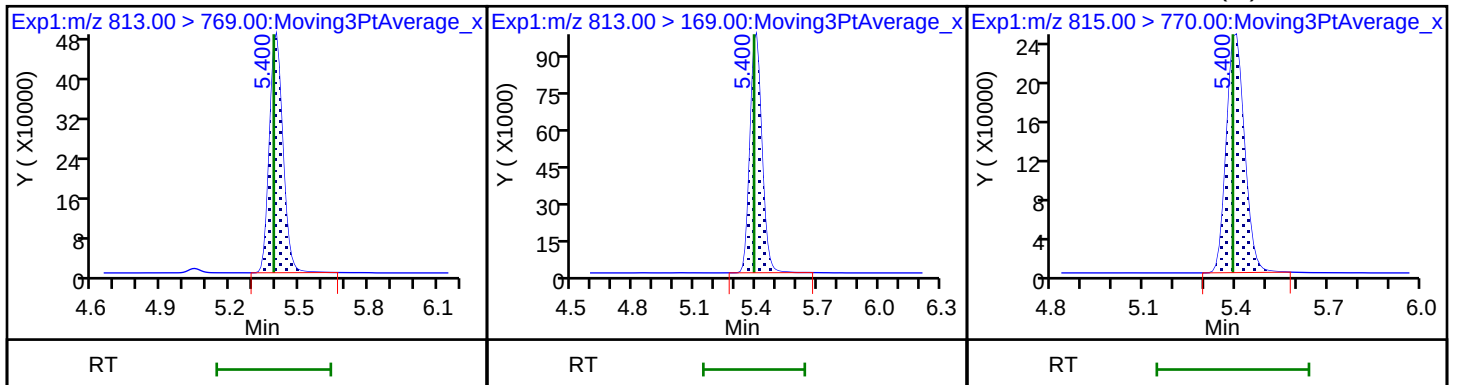
D 43 13C2 PFTeDA (M)



45 Perfluorohexadecanoic acid

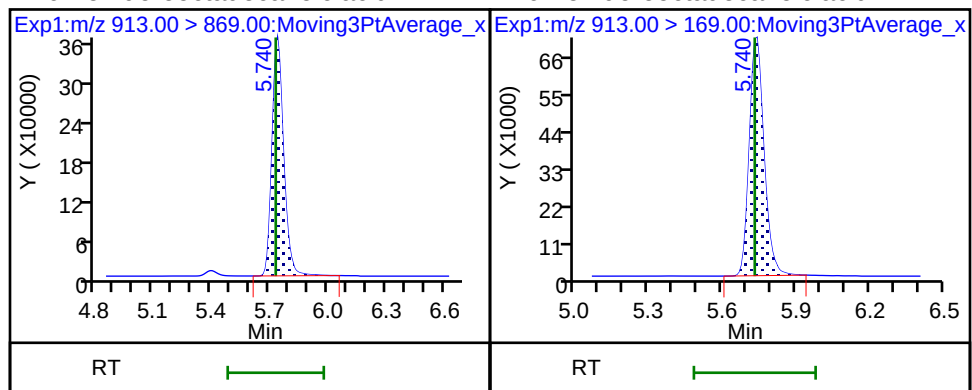
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA (M)



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins Burlington

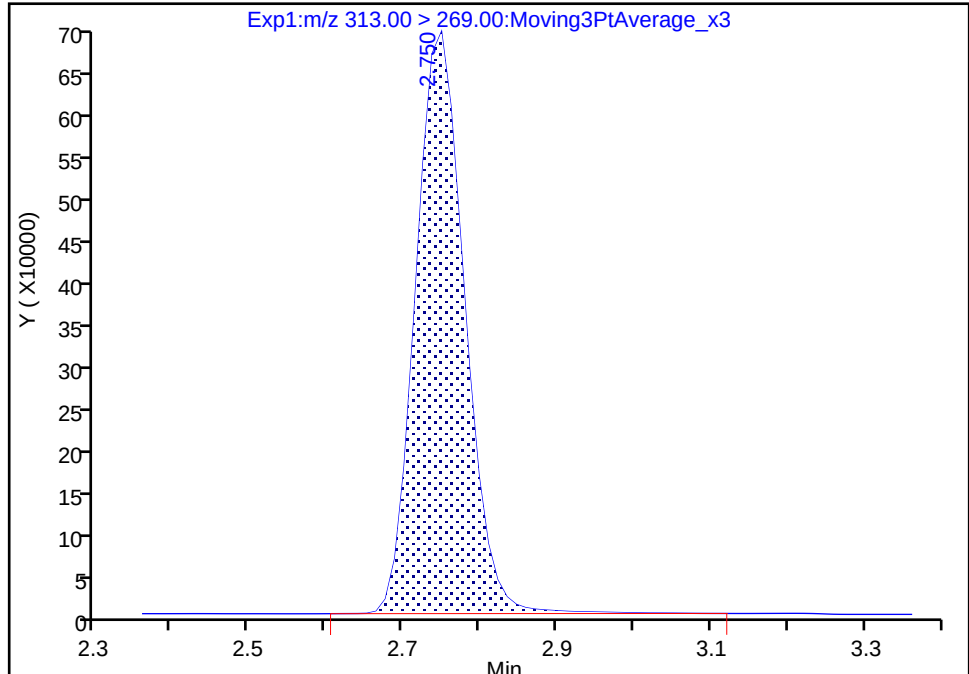
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

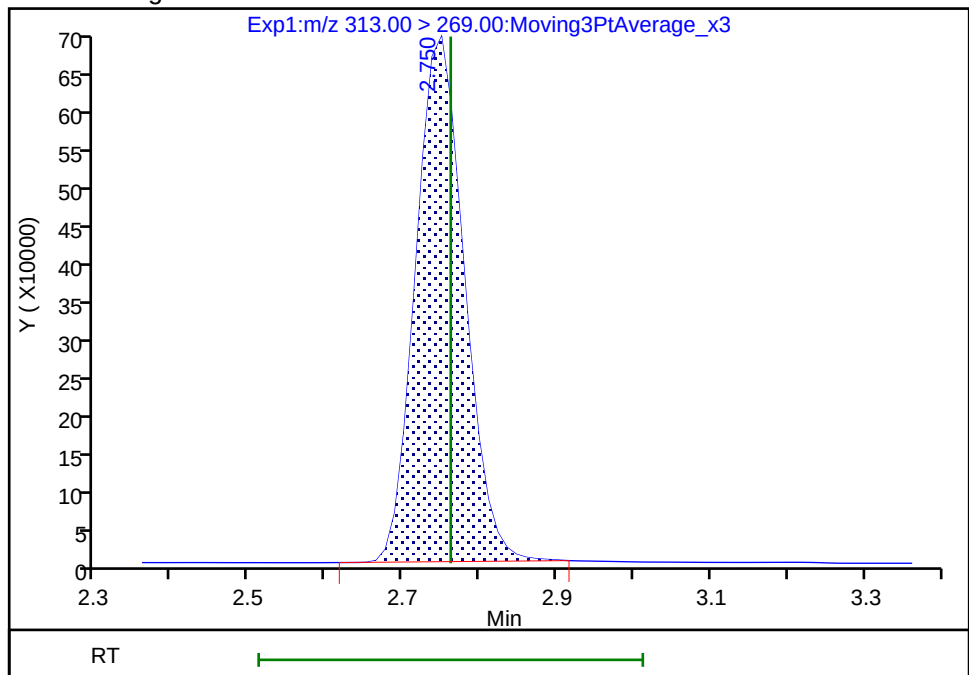
RT: 2.75
Area: 3074971
Amount: 2.449137
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 3042002
Amount: 2.457022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 334 of 978

11/21/2022
4:10 PM

Eurofins Burlington

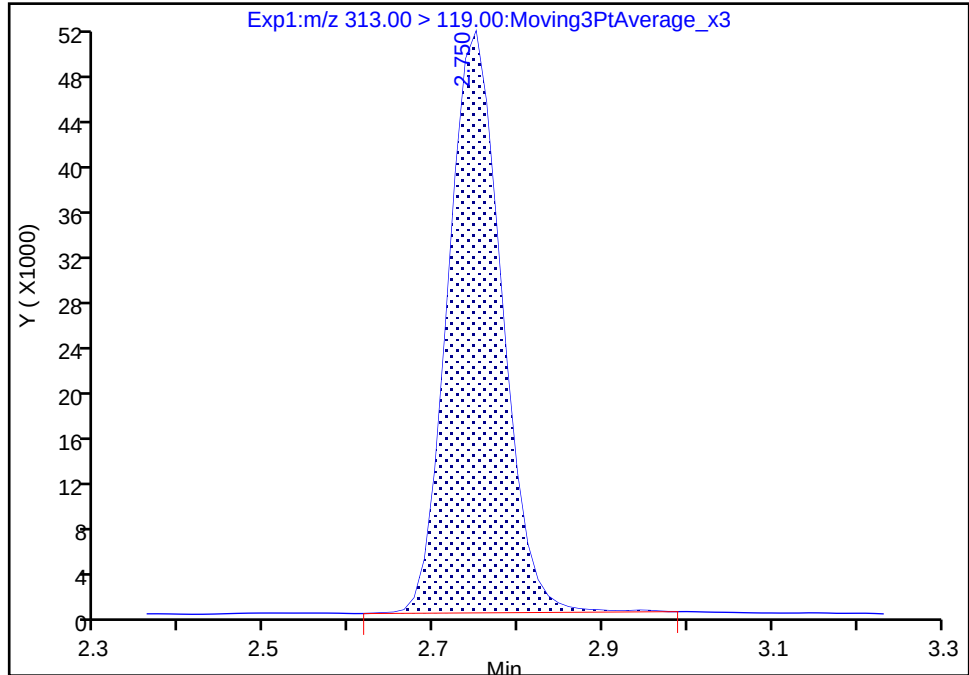
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

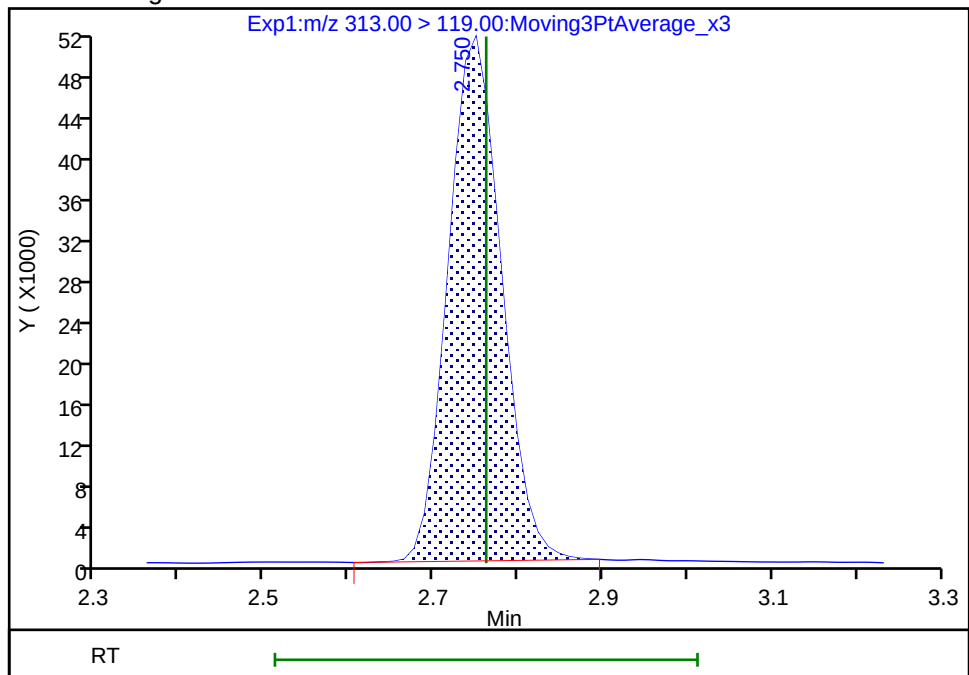
RT: 2.75
Area: 225864
Amount: 2.449137
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 223745
Amount: 2.457022
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 335 of 97811/21/2022
4:10 PM

Eurofins Burlington

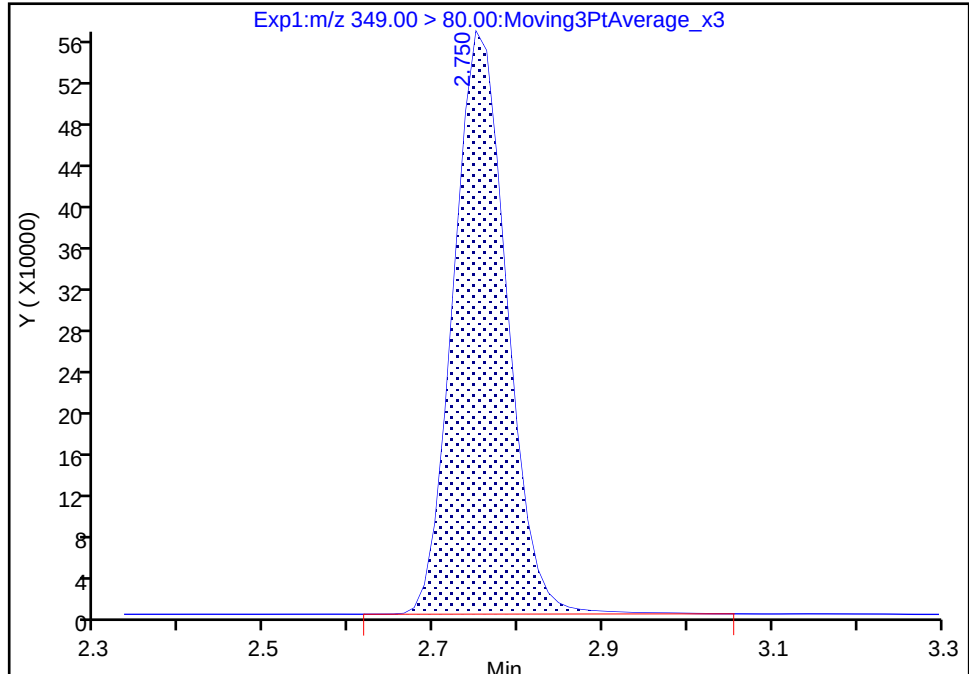
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

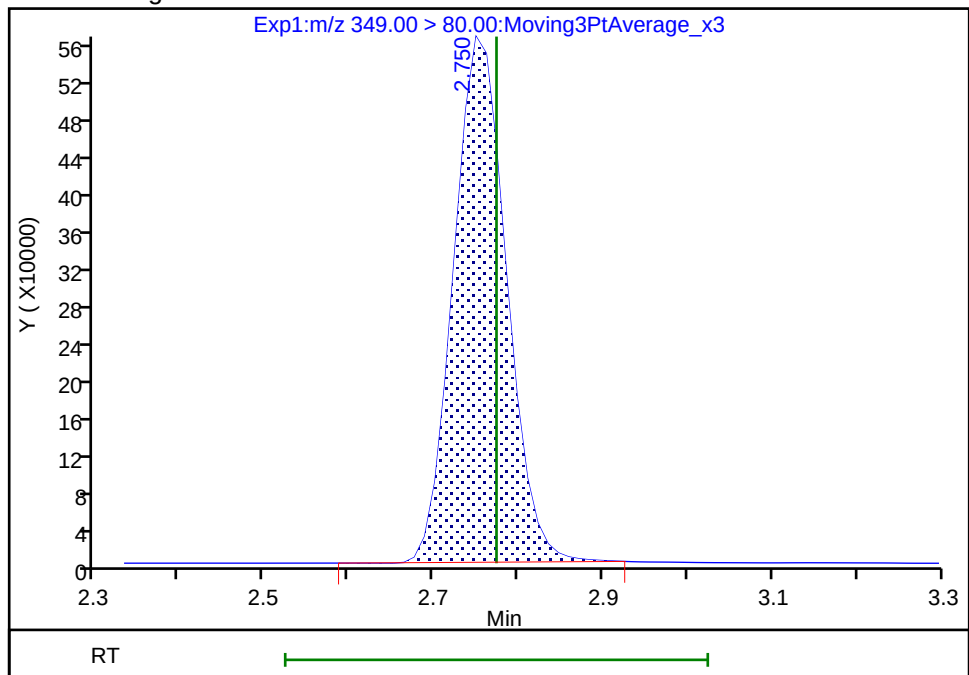
RT: 2.75
Area: 2455296
Amount: 2.243328
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 2434557
Amount: 2.266097
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 336 of 978

11/21/2022
4:10 PM

Eurofins Burlington

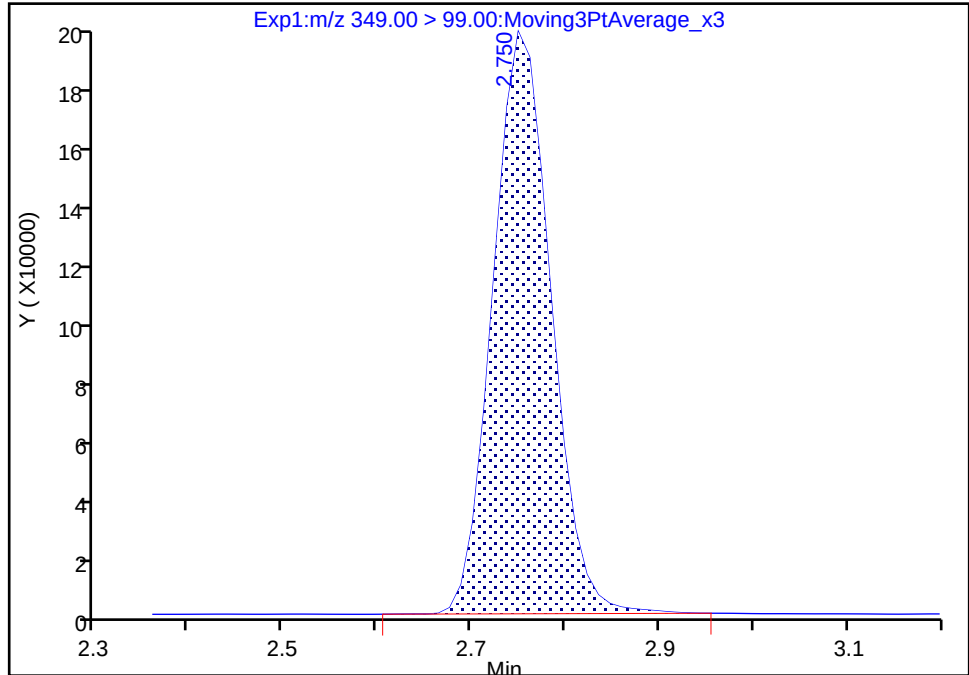
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

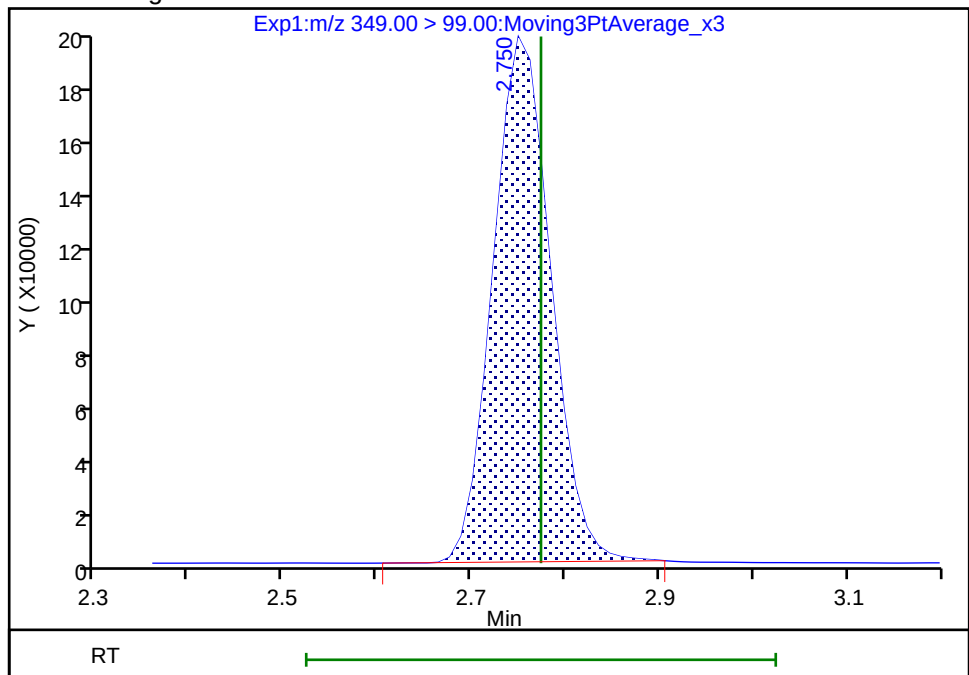
RT: 2.75
Area: 816097
Amount: 2.243328
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 810233
Amount: 2.266097
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 337 of 97811/21/2022
4:10 PM

Eurofins Burlington

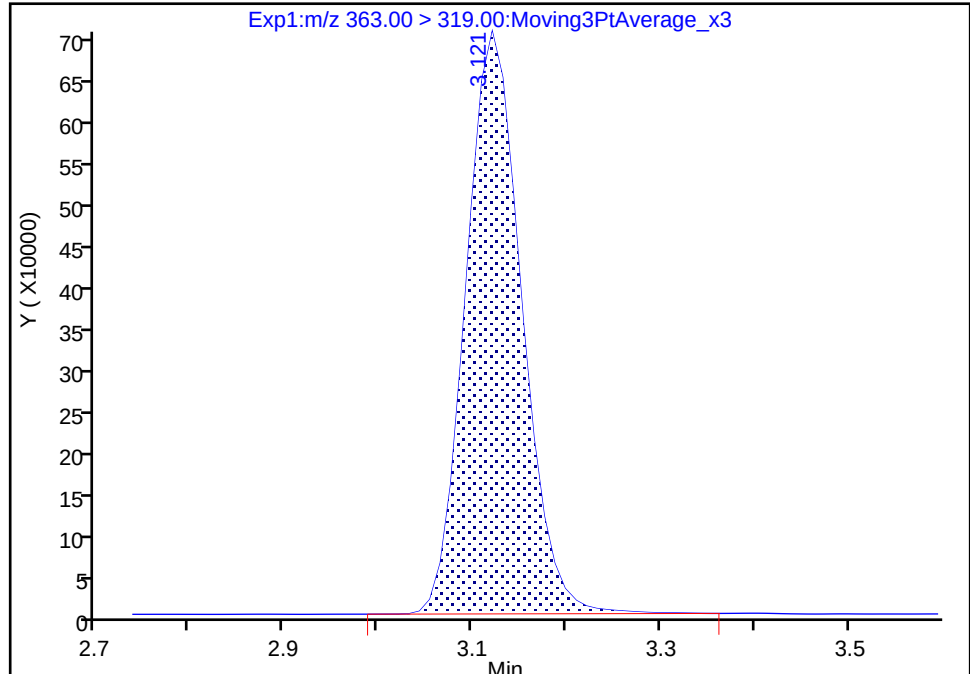
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

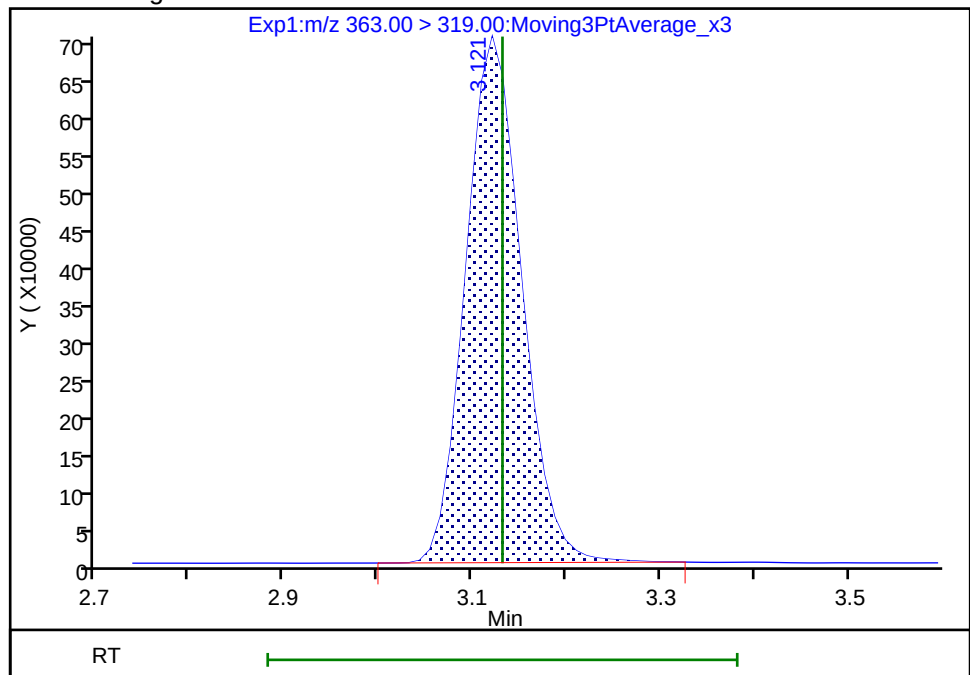
RT: 3.12
Area: 2898515
Amount: 2.378881
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 2892996
Amount: 2.411744
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 338 of 978

11/21/2022
4:10 PM

Eurofins Burlington

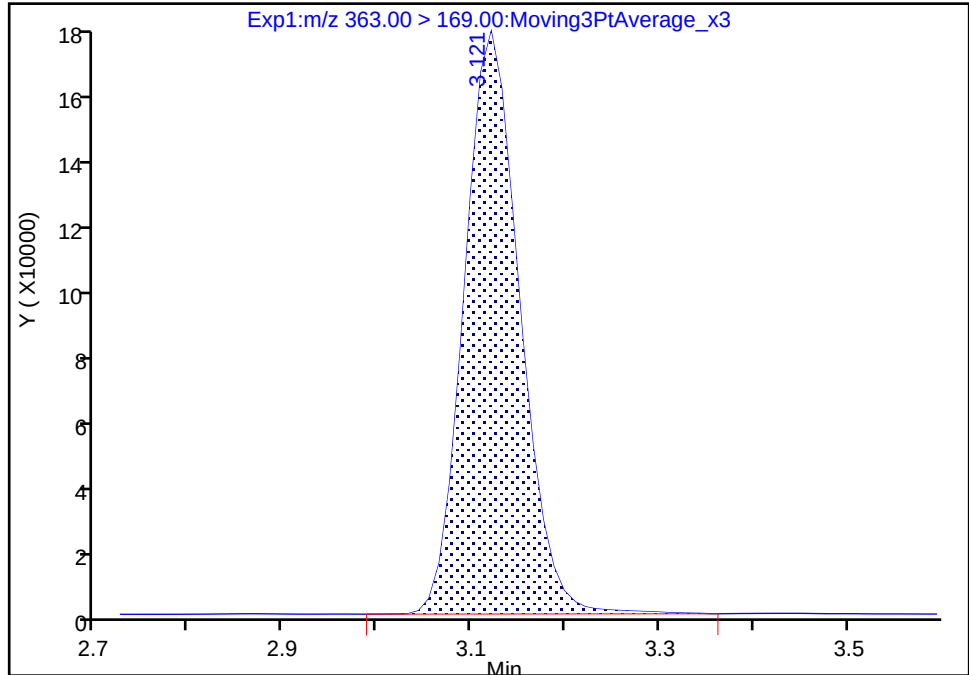
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

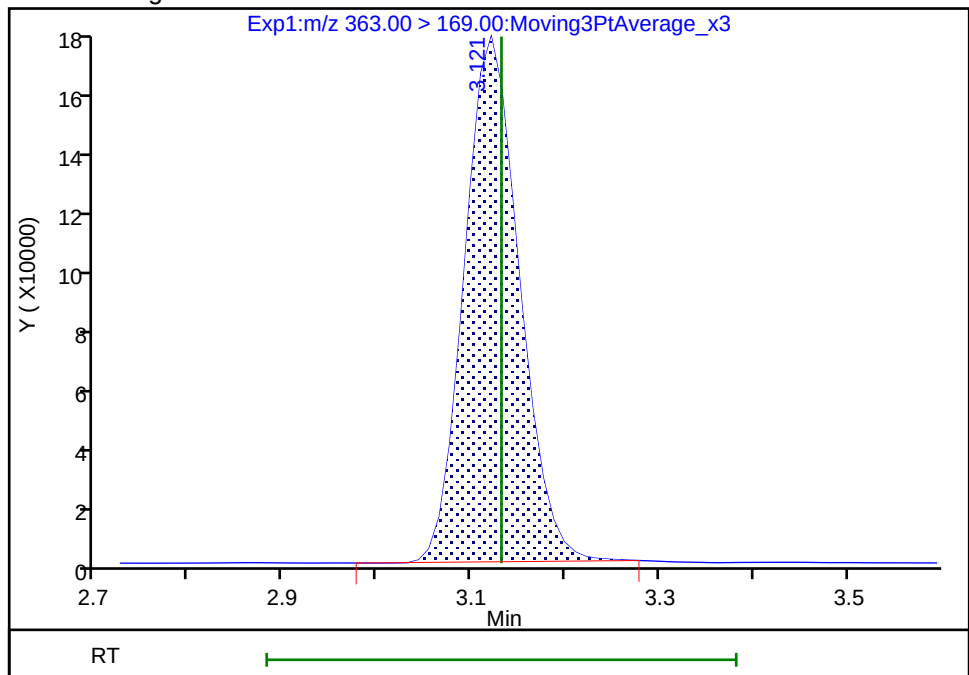
RT: 3.12
Area: 731137
Amount: 2.378881
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 722459
Amount: 2.411744
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:19:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 339 of 97811/21/2022
4:10 PM

Eurofins Burlington

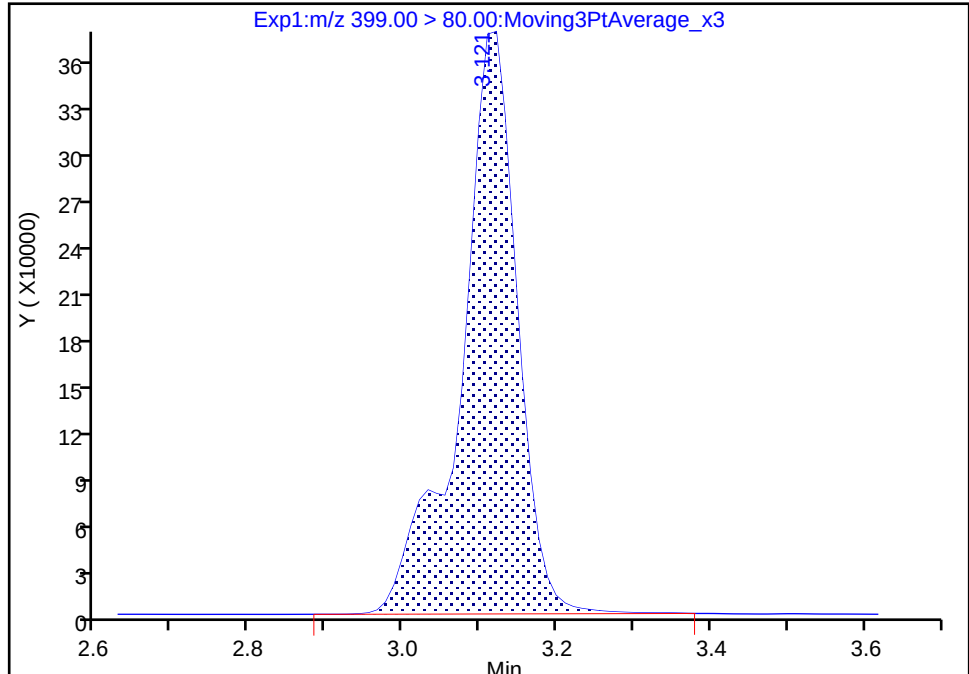
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

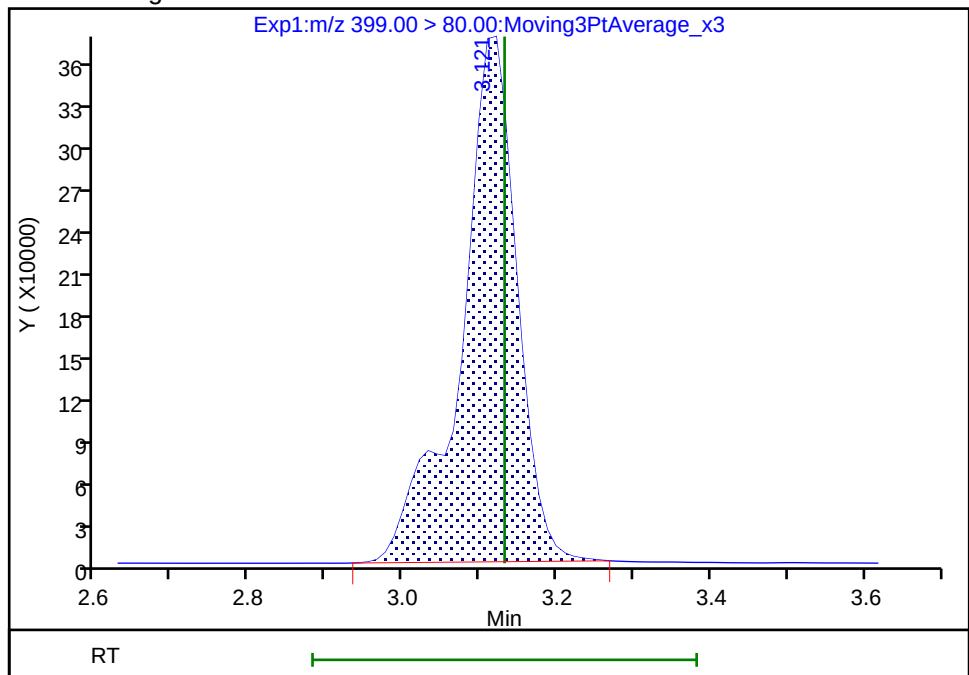
RT: 3.12
Area: 1902872
Amount: 2.064158
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 1885812
Amount: 2.070986
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:24:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 340 of 978

11/21/2022
4:10 PM

Eurofins Burlington

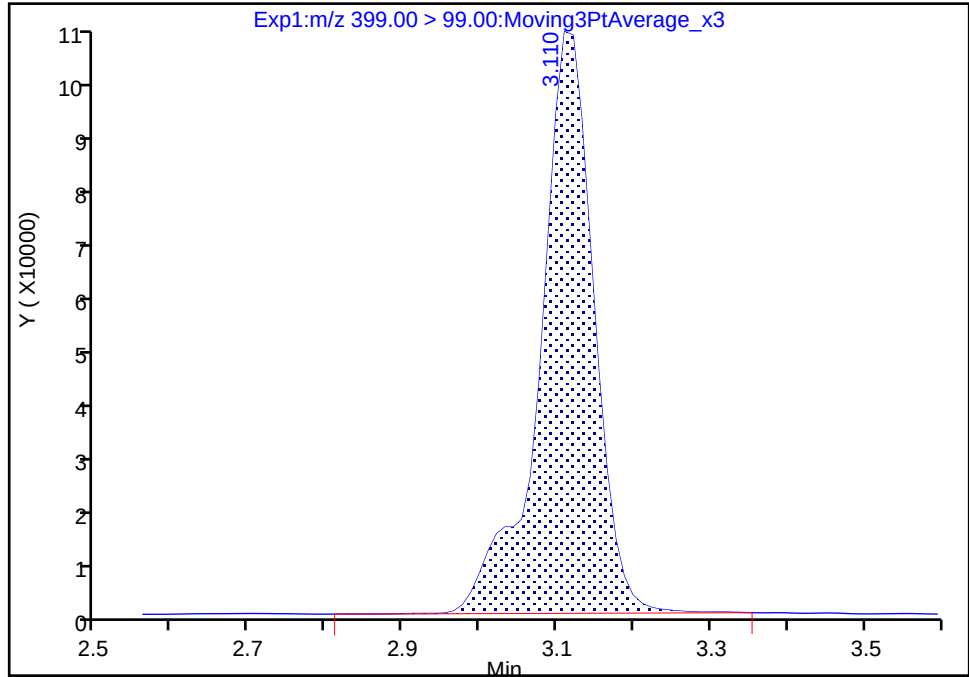
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

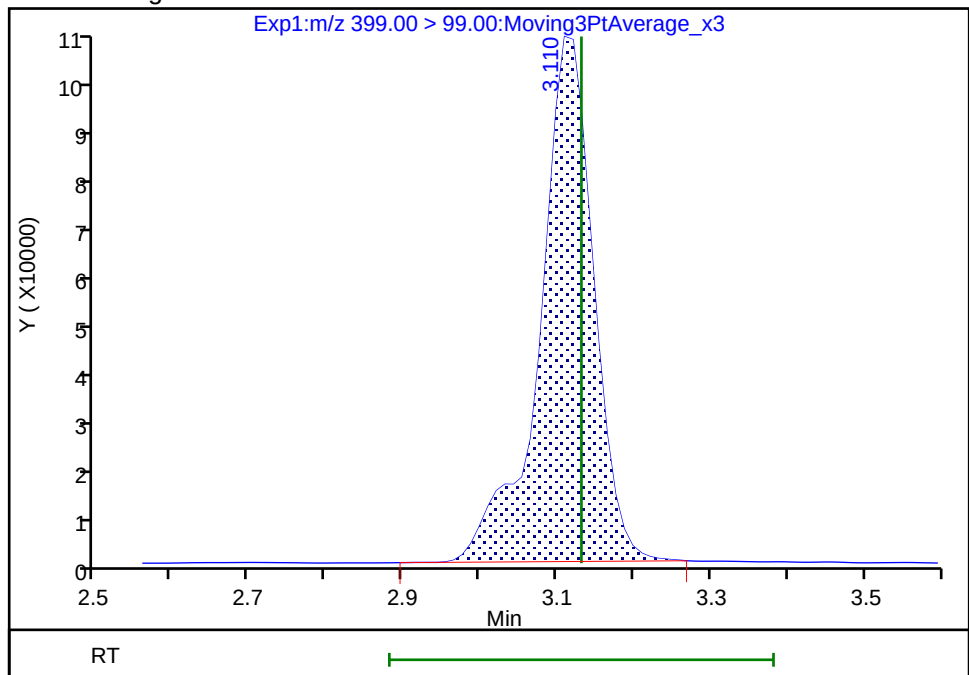
RT: 3.11
Area: 519701
Amount: 2.064158
Amount Units: ng/ml

Processing Integration Results



RT: 3.11
Area: 515956
Amount: 2.070986
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:24:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 341 of 97811/21/2022
4:10 PM

Eurofins Burlington

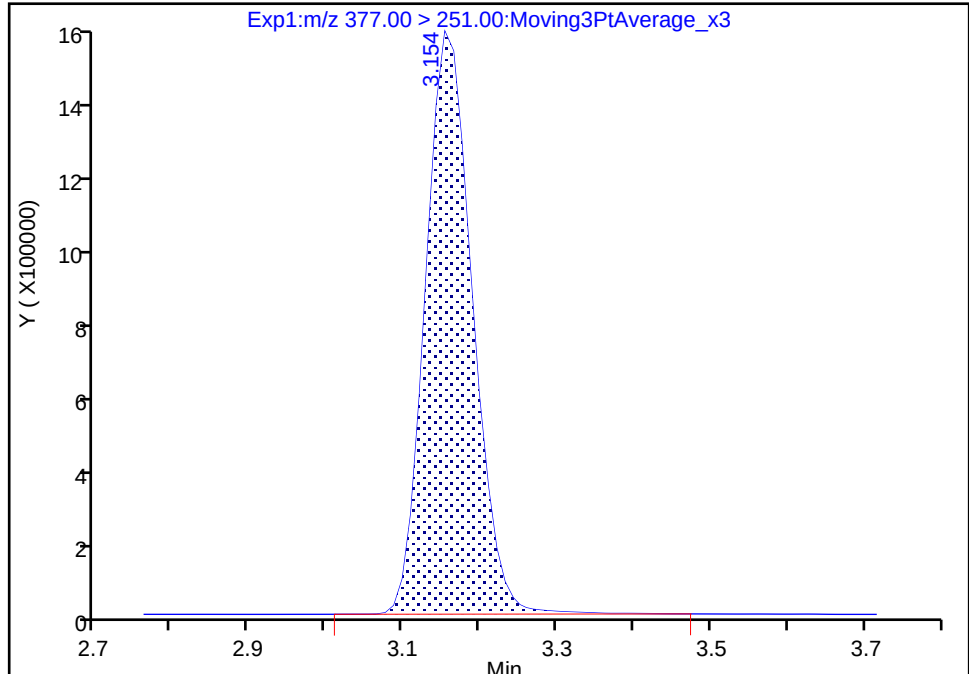
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

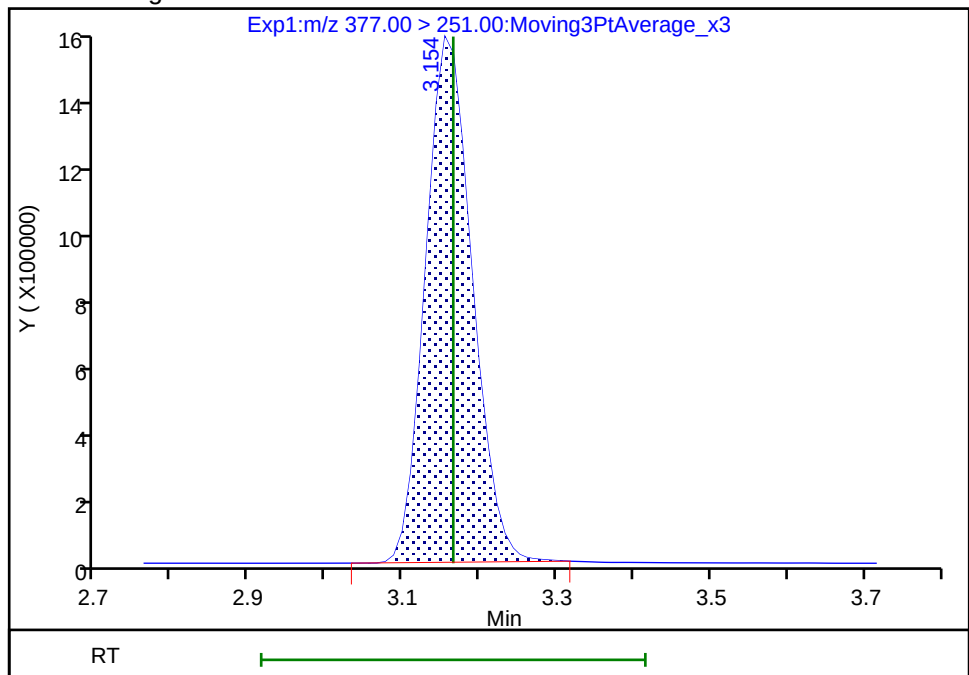
RT: 3.15
Area: 6487662
Amount: 2.251005
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 6429389
Amount: 2.268755
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:24:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 342 of 978

11/21/2022
4:10 PM

Eurofins Burlington

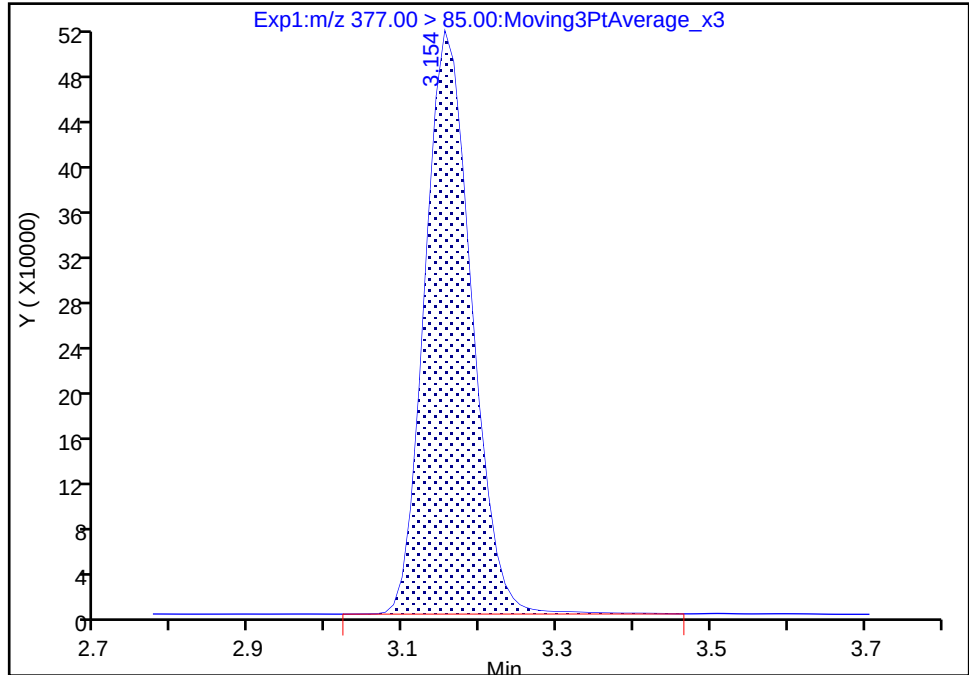
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

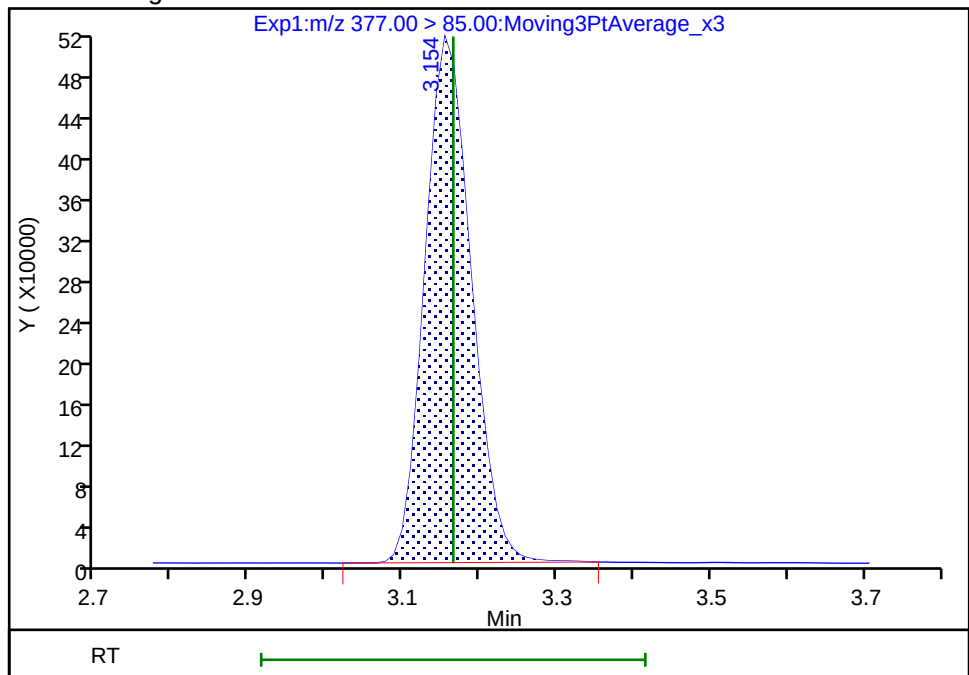
RT: 3.15
Area: 2178708
Amount: 2.251005
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 2166665
Amount: 2.268755
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:24:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 343 of 97811/21/2022
4:10 PM

Eurofins Burlington

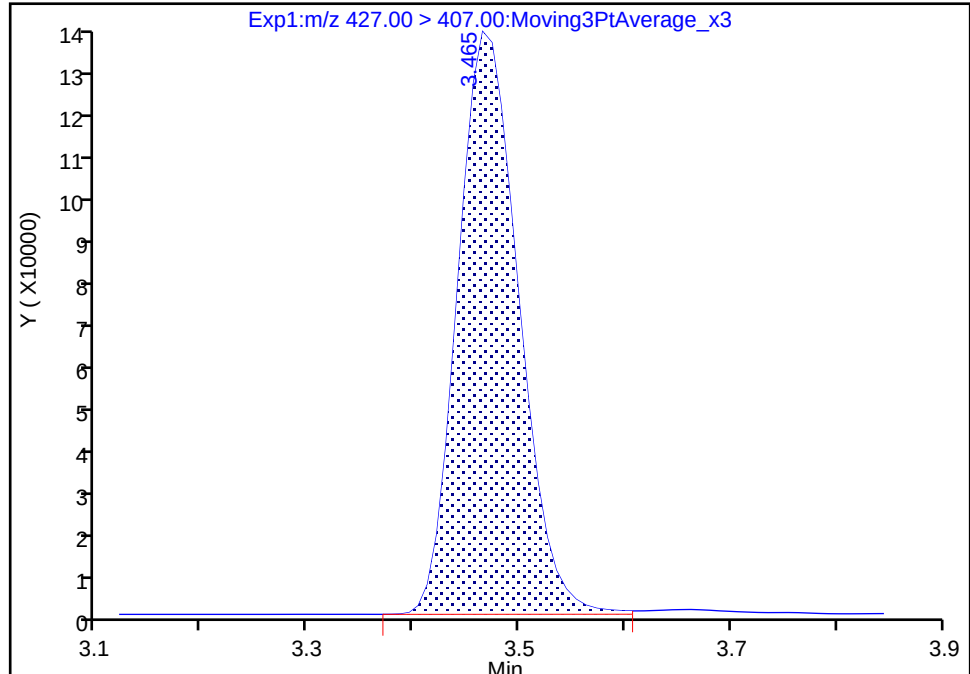
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

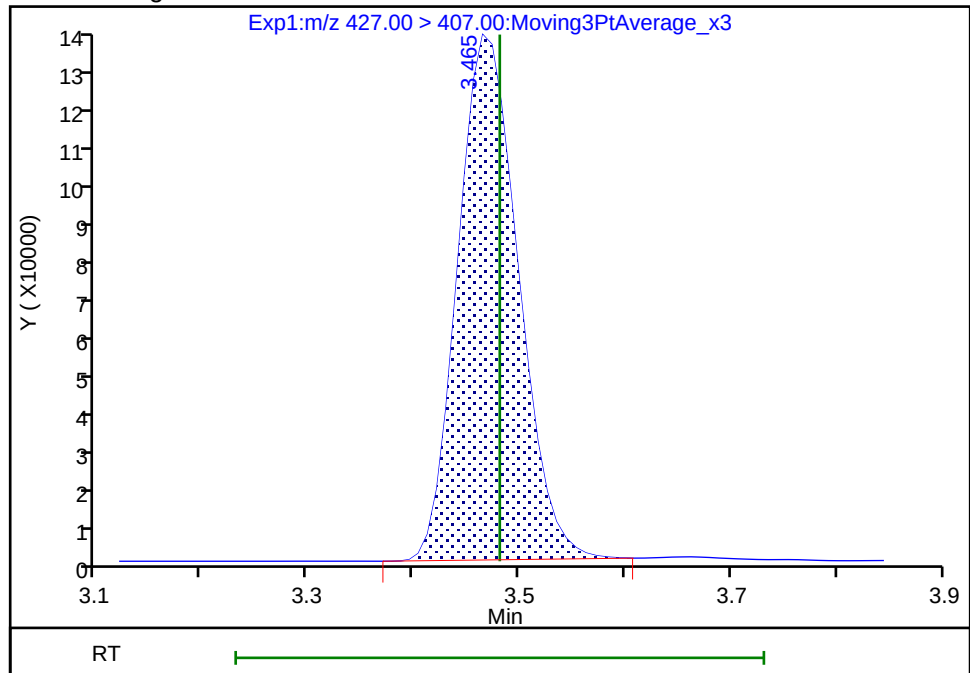
RT: 3.47
Area: 558285
Amount: 2.377636
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 552719
Amount: 2.347464
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 344 of 978

11/21/2022
4:10 PM

Eurofins Burlington

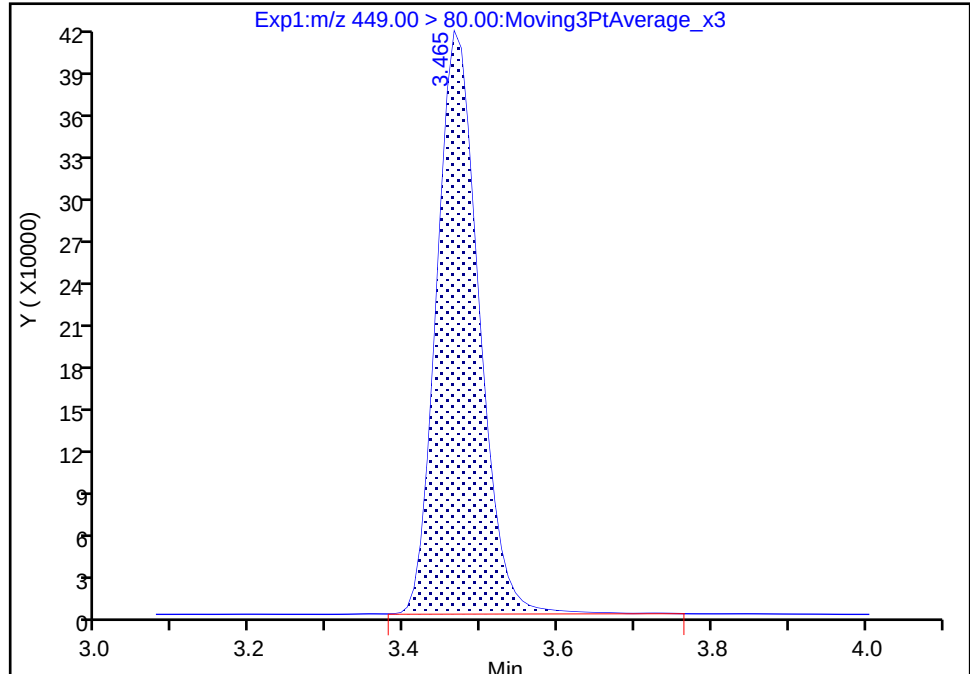
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

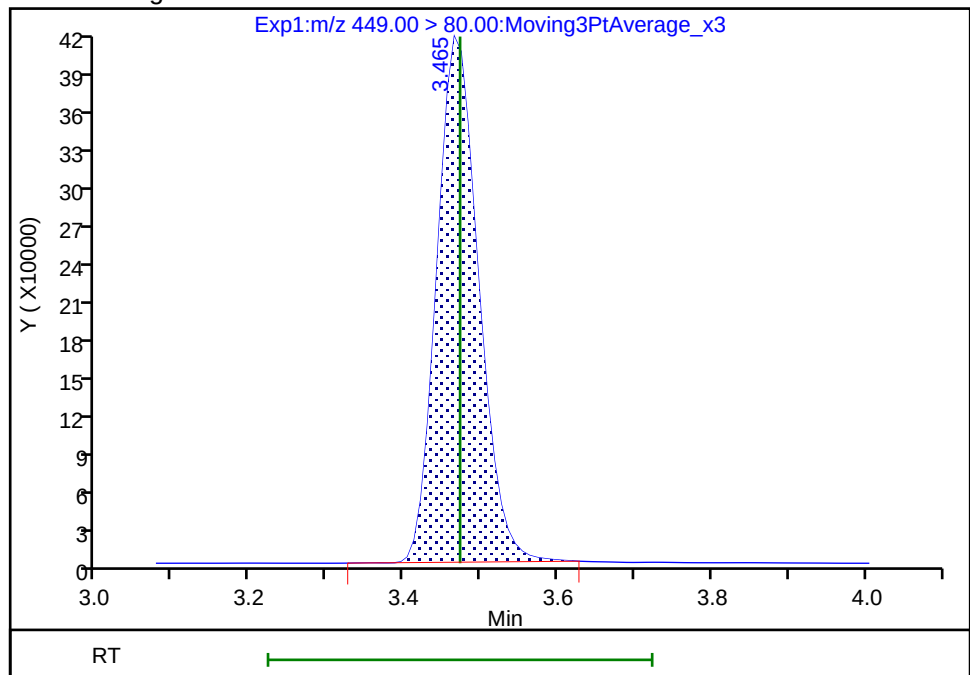
RT: 3.47
Area: 1582004
Amount: 2.165293
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 1566895
Amount: 2.181292
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 345 of 978

11/21/2022
4:10 PM

Eurofins Burlington

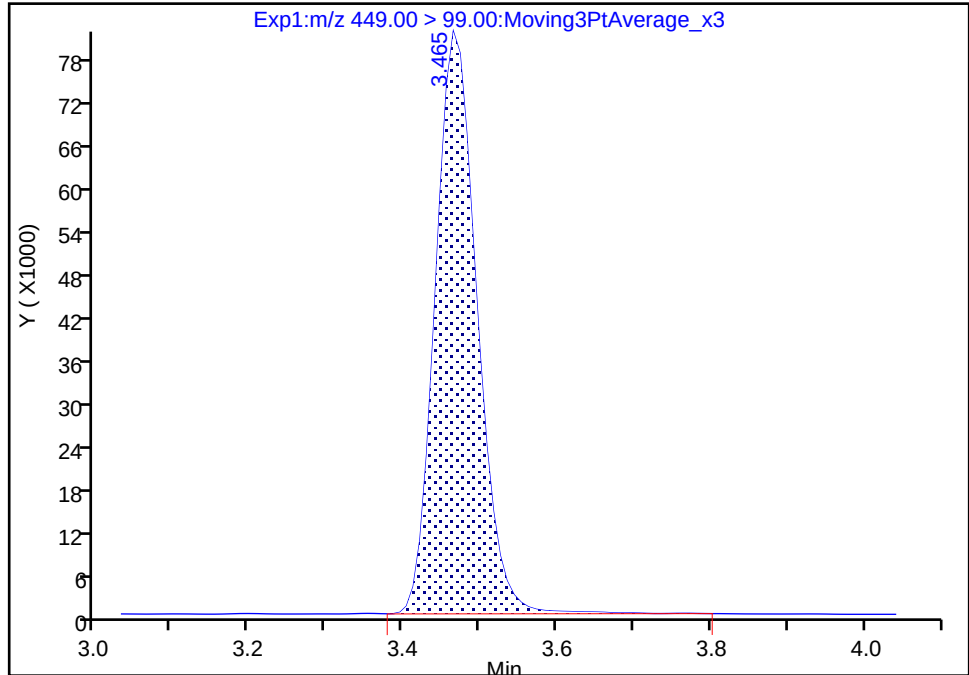
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

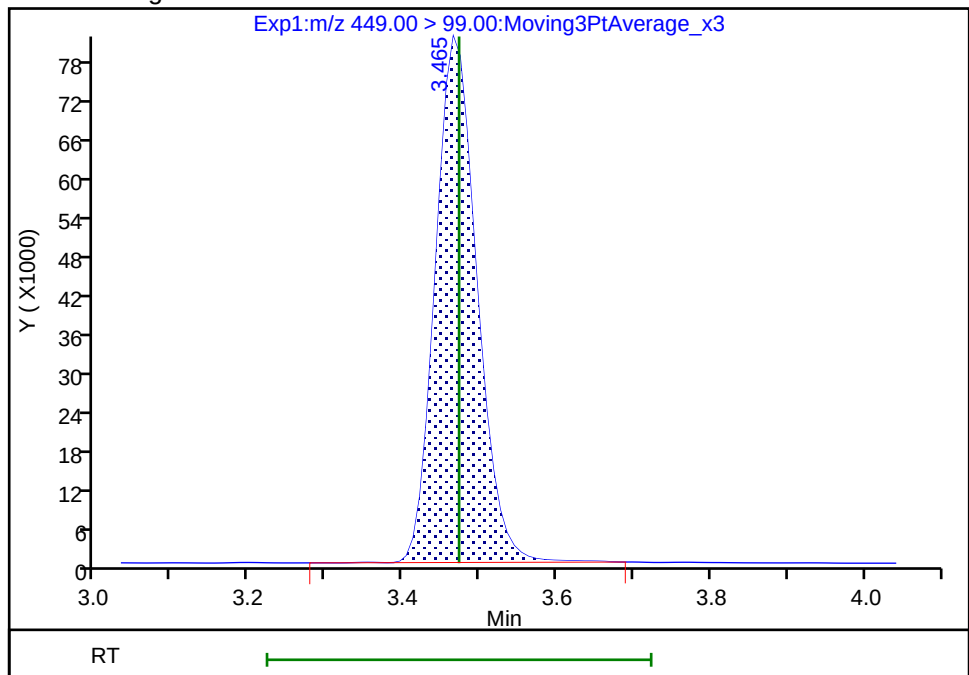
RT: 3.47
Area: 306756
Amount: 2.165293
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 305412
Amount: 2.181292
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 346 of 97811/21/2022
4:10 PM

Eurofins Burlington

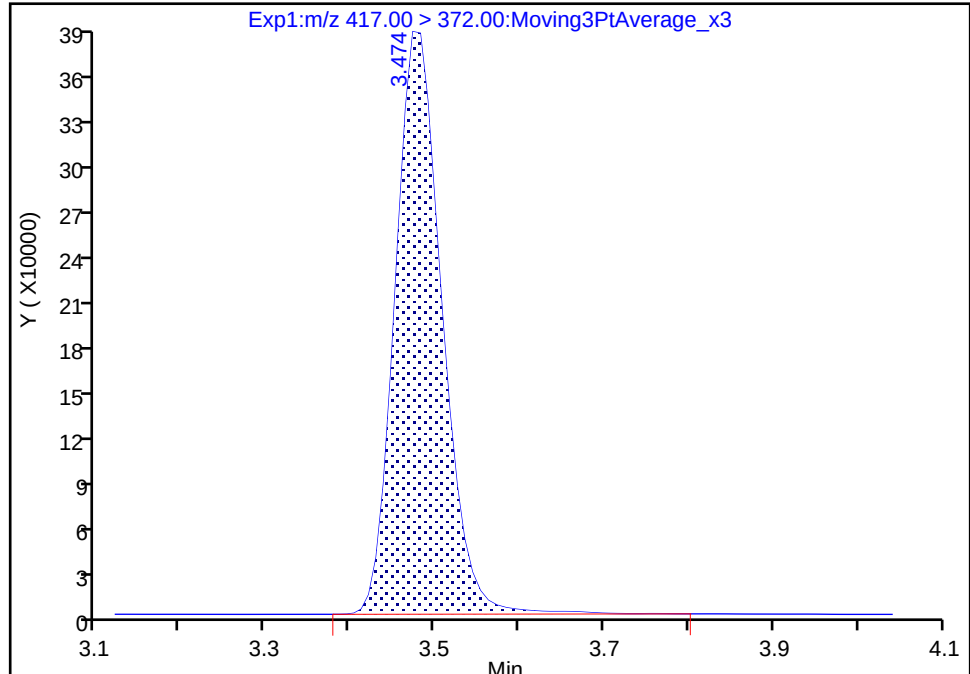
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

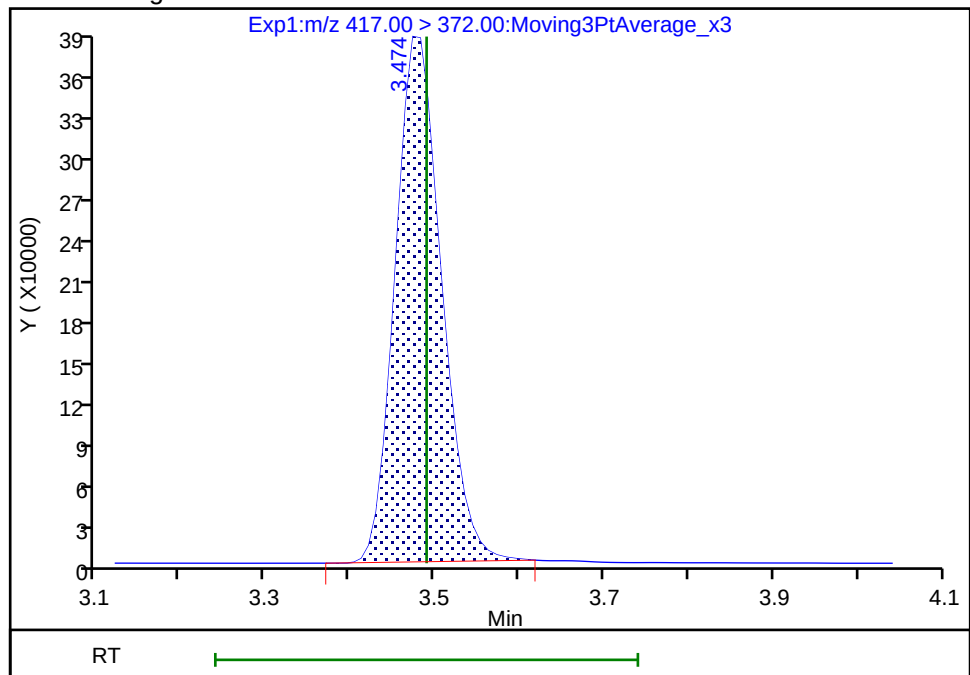
RT: 3.47
Area: 1469941
Amount: 1.230625
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 1446878
Amount: 1.224068
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 347 of 978

11/21/2022
4:10 PM

Eurofins Burlington

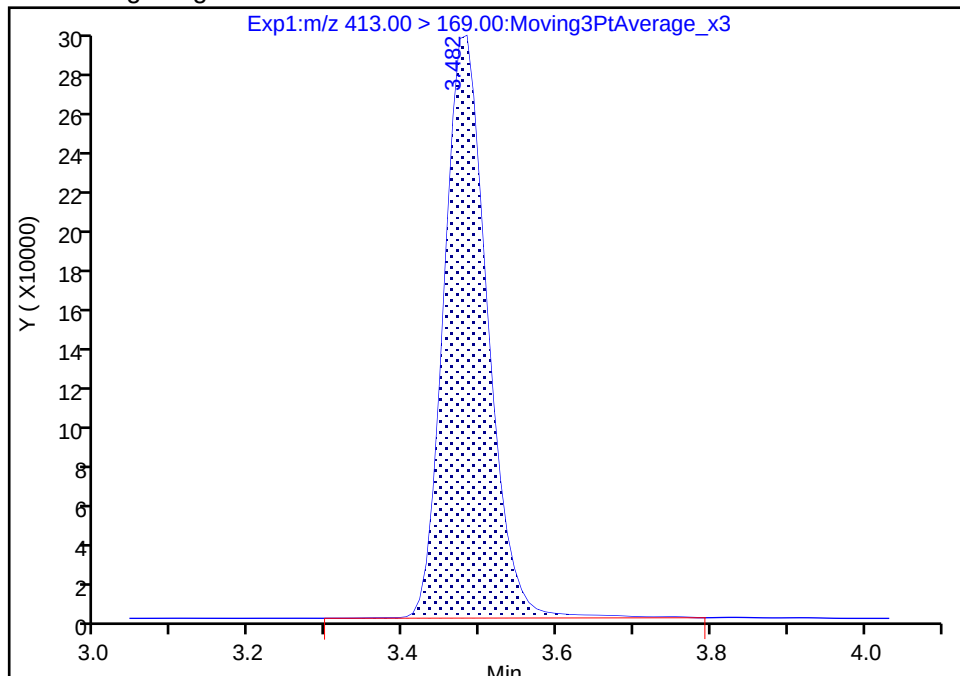
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

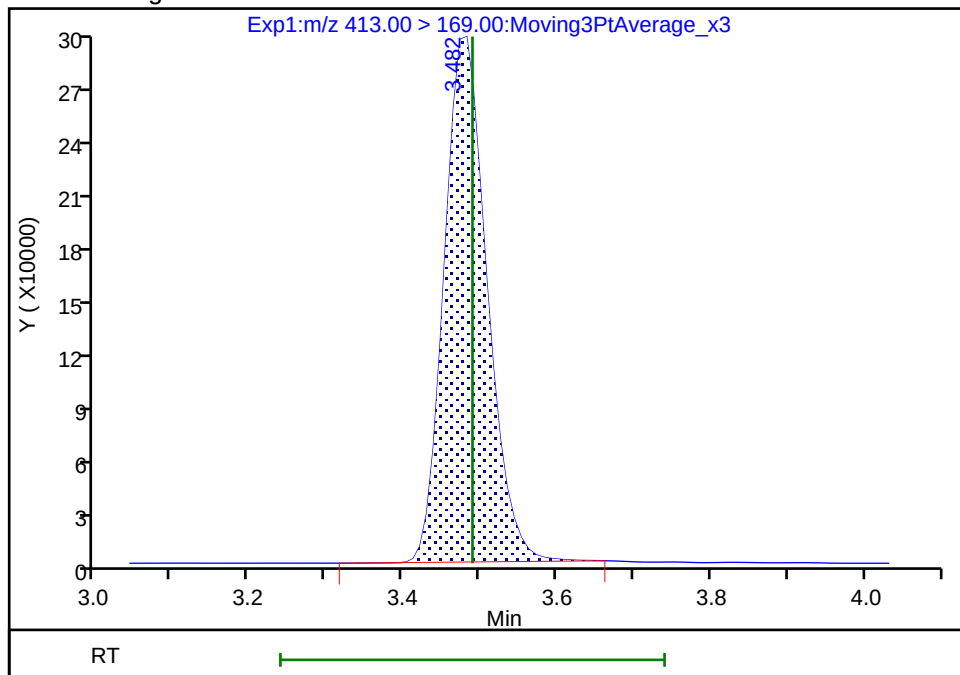
RT: 3.48
Area: 1162917
Amount: 2.377615
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 1147136
Amount: 2.385613
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

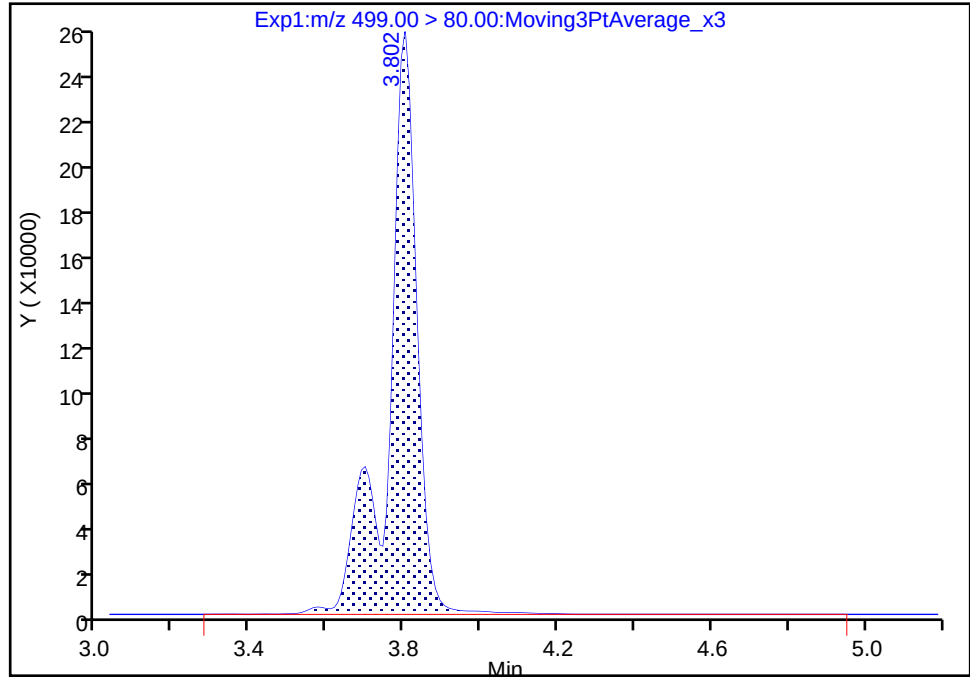
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

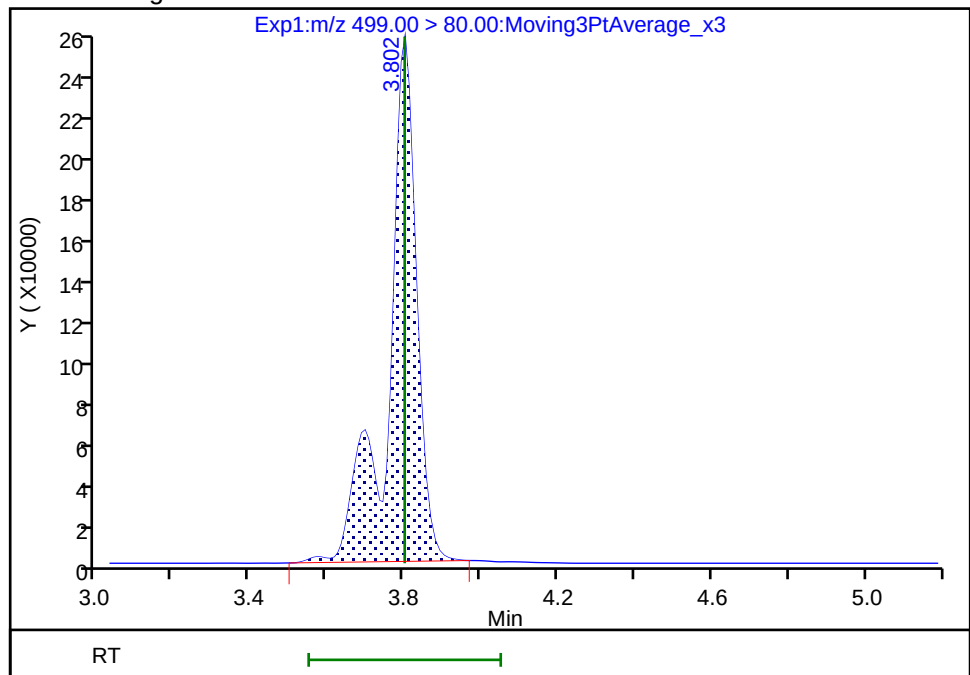
RT: 3.80
Area: 1354429
Amount: 2.309021
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 1323207
Amount: 2.136195
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 349 of 978

11/21/2022
4:10 PM

Eurofins Burlington

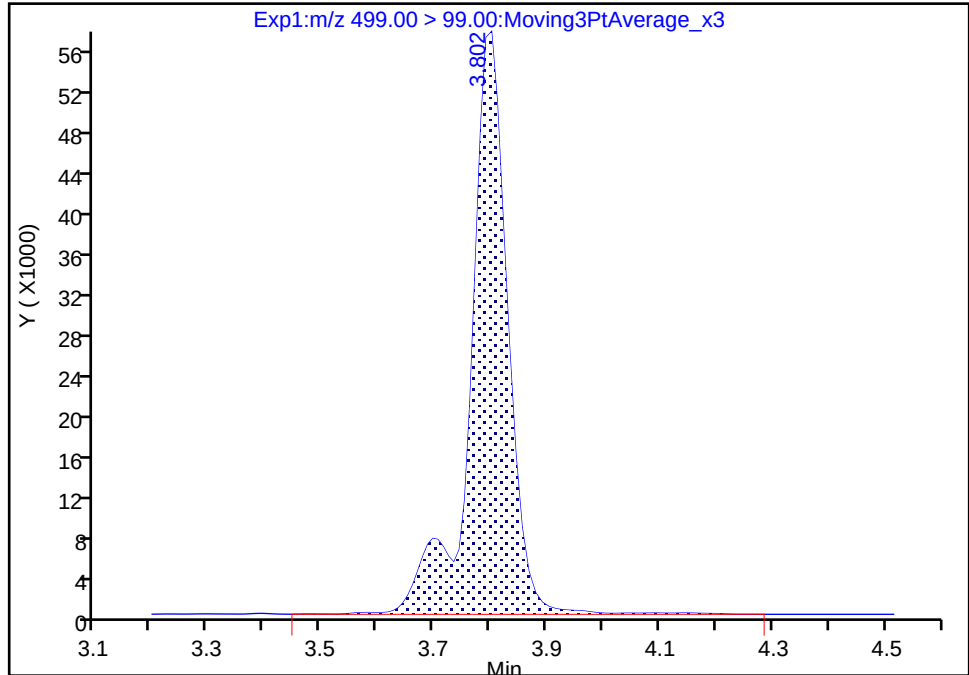
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

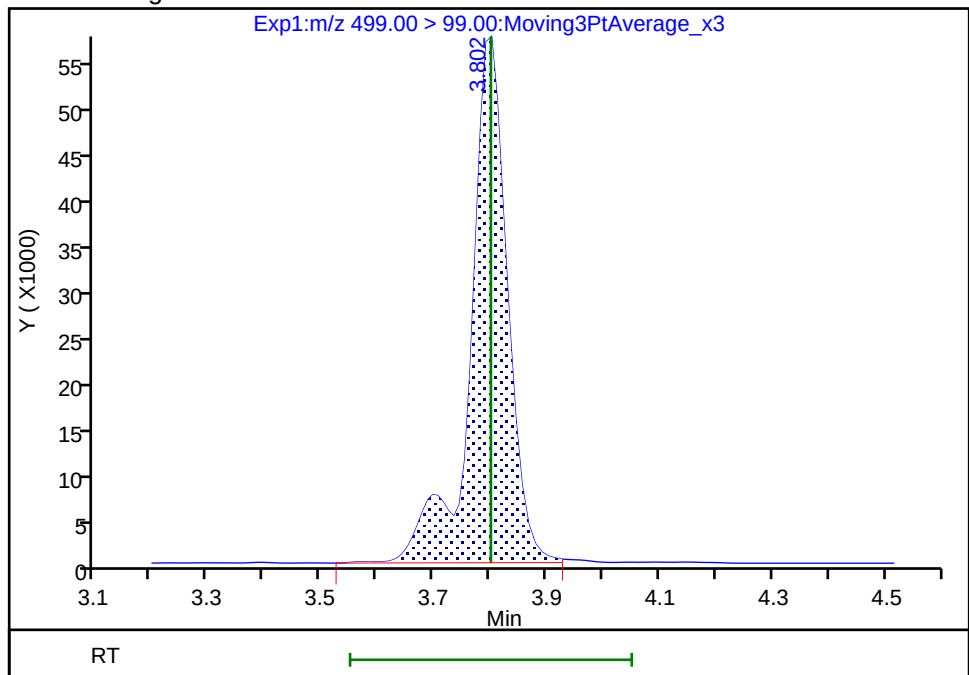
RT: 3.80
Area: 266596
Amount: 2.309021
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 262960
Amount: 2.136195
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:25:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 350 of 97811/21/2022
4:10 PM

Eurofins Burlington

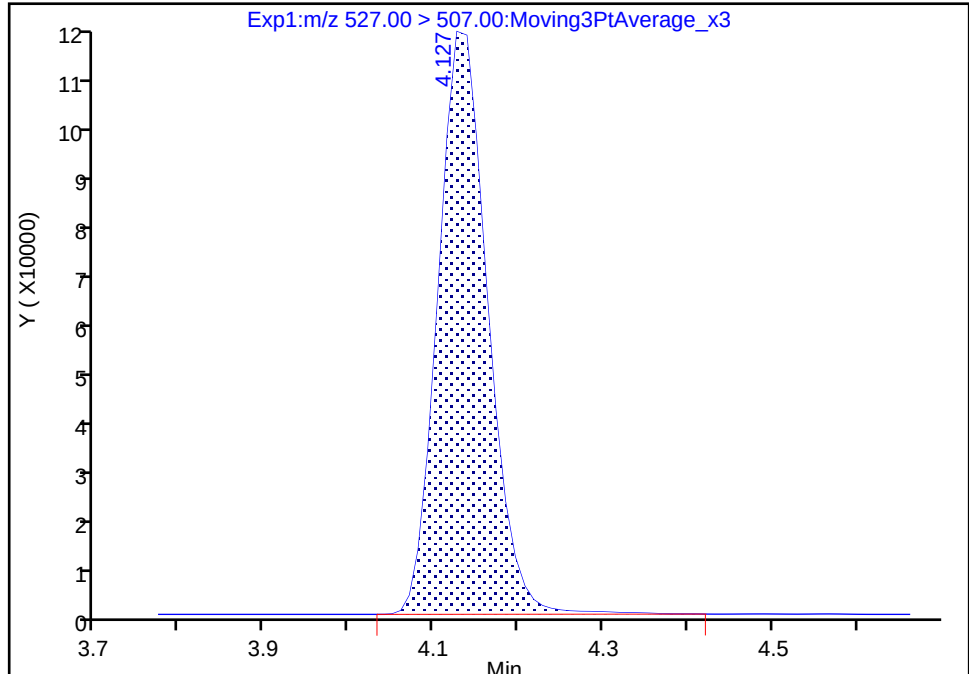
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

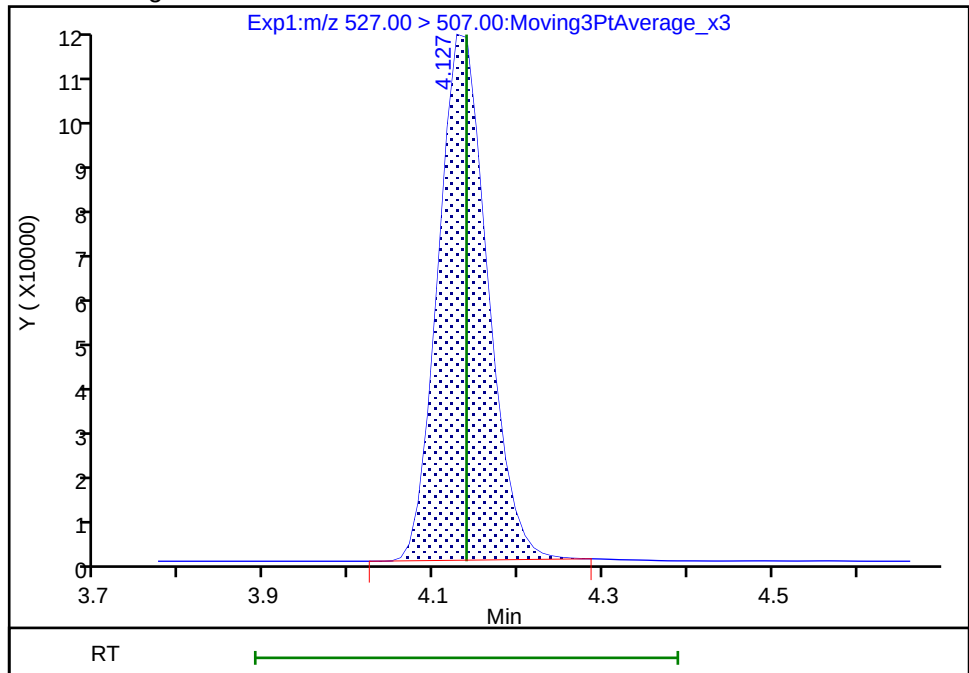
RT: 4.13
Area: 459586
Amount: 2.281062
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 454235
Amount: 2.296391
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 351 of 978

11/21/2022
4:10 PM

Eurofins Burlington

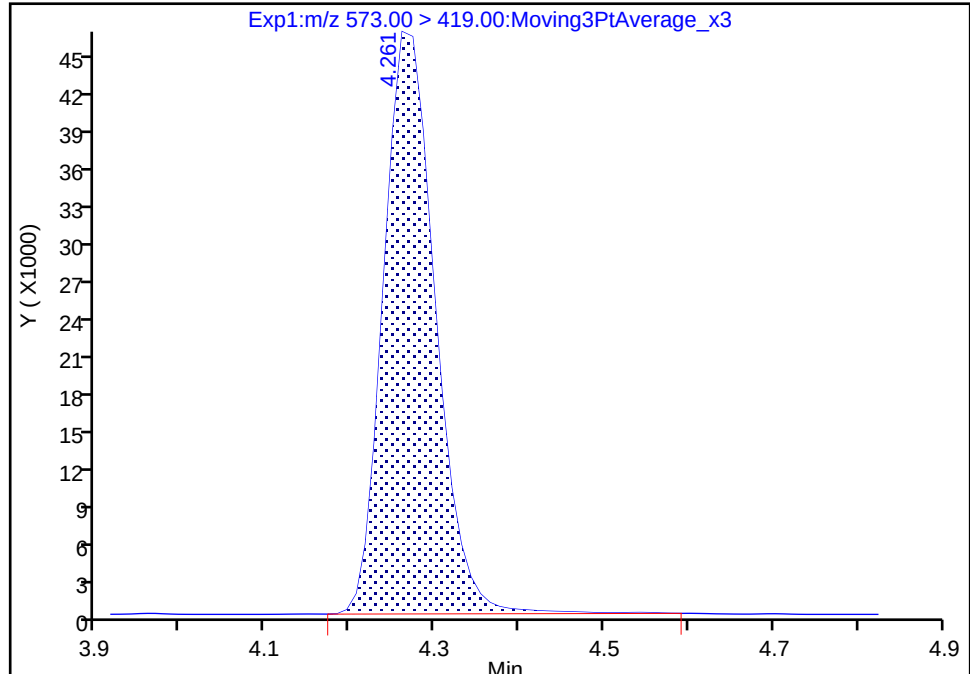
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

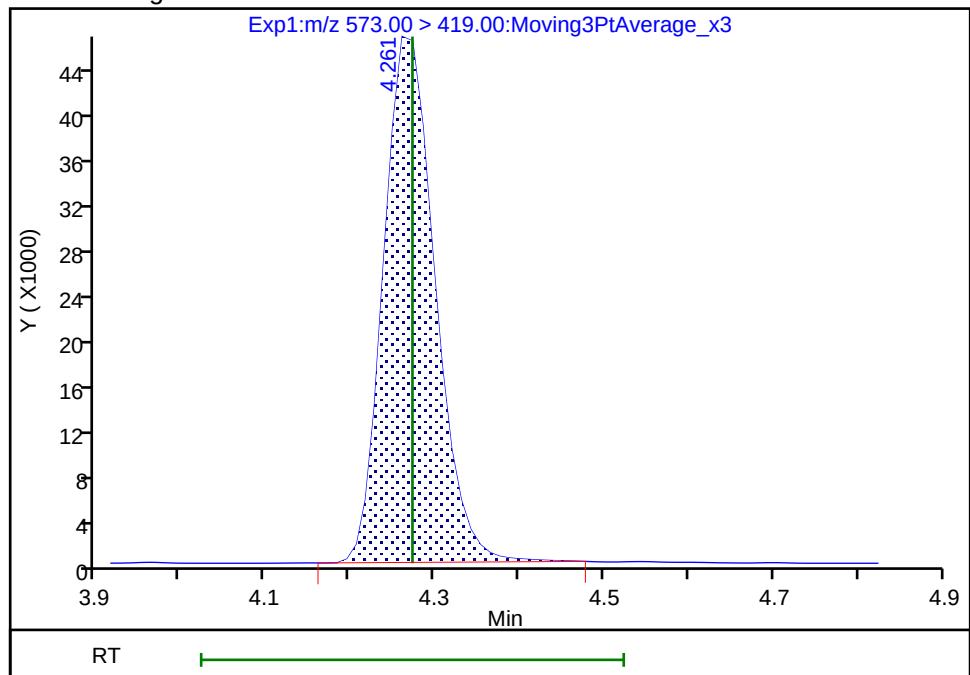
RT: 4.26
Area: 198014
Amount: 1.244025
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 196670
Amount: 1.236192
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 352 of 978

11/21/2022
4:10 PM

Eurofins Burlington

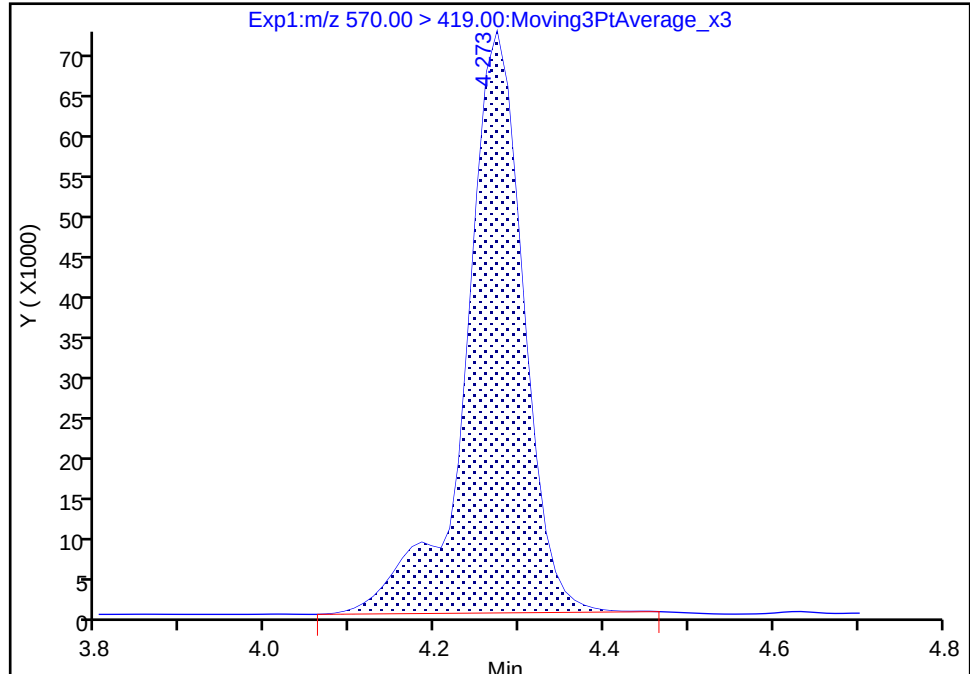
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

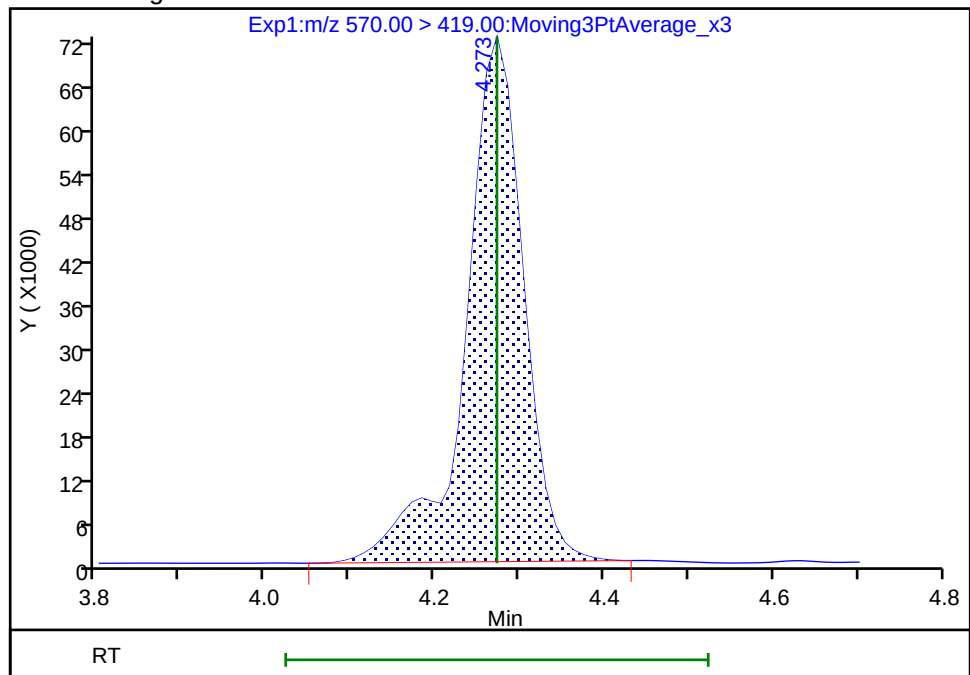
RT: 4.27
Area: 347069
Amount: 2.378296
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 346259
Amount: 2.379718
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 353 of 978

11/21/2022
4:10 PM

Eurofins Burlington

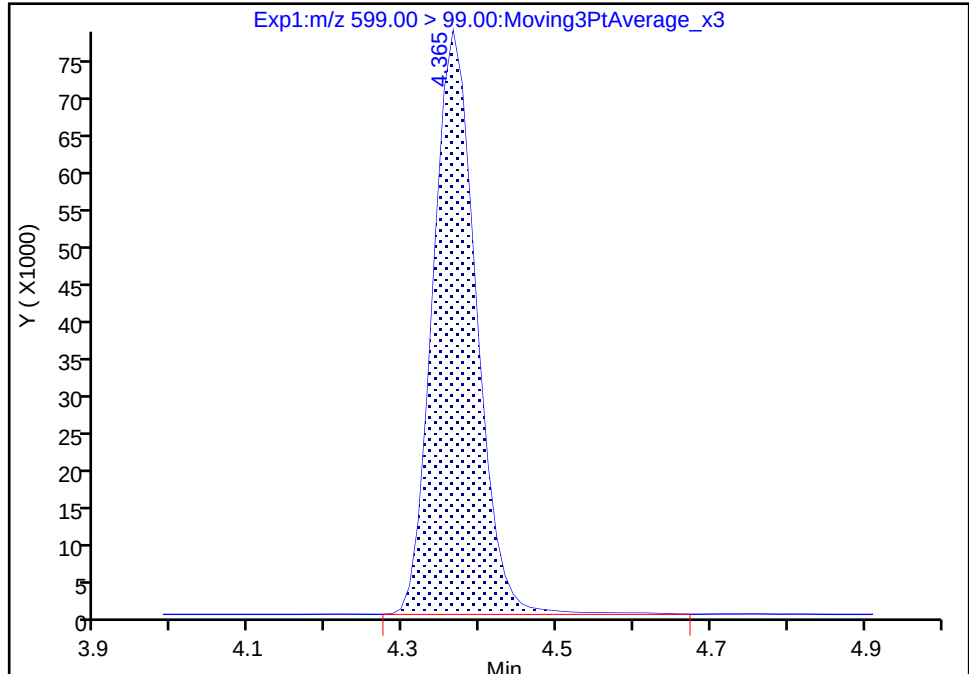
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

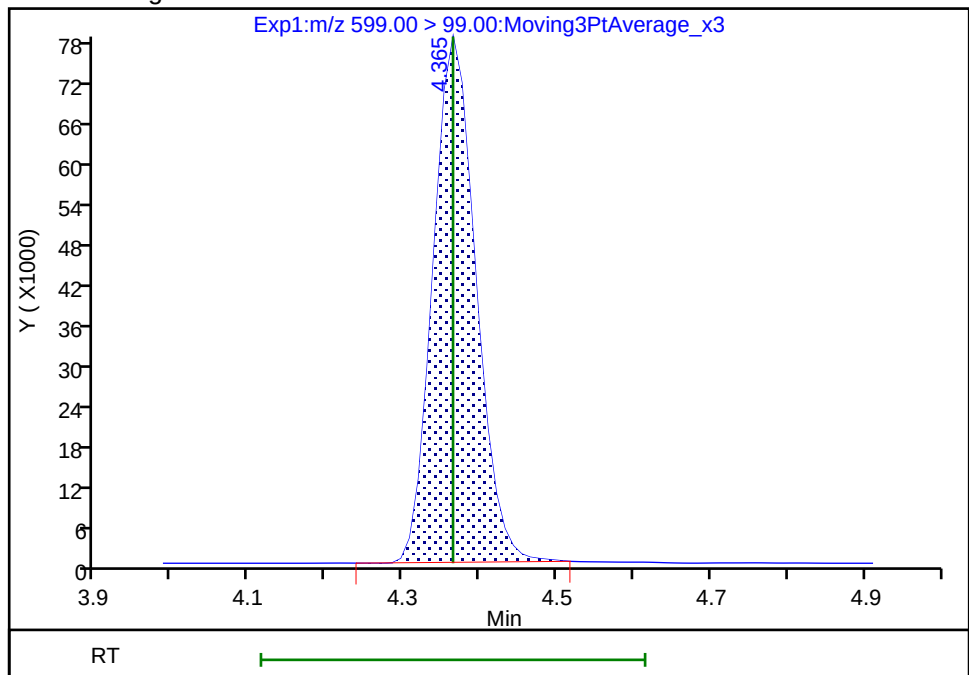
RT: 4.36
Area: 305424
Amount: 2.260156
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 301488
Amount: 2.295459
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 354 of 978

11/21/2022
4:10 PM

Eurofins Burlington

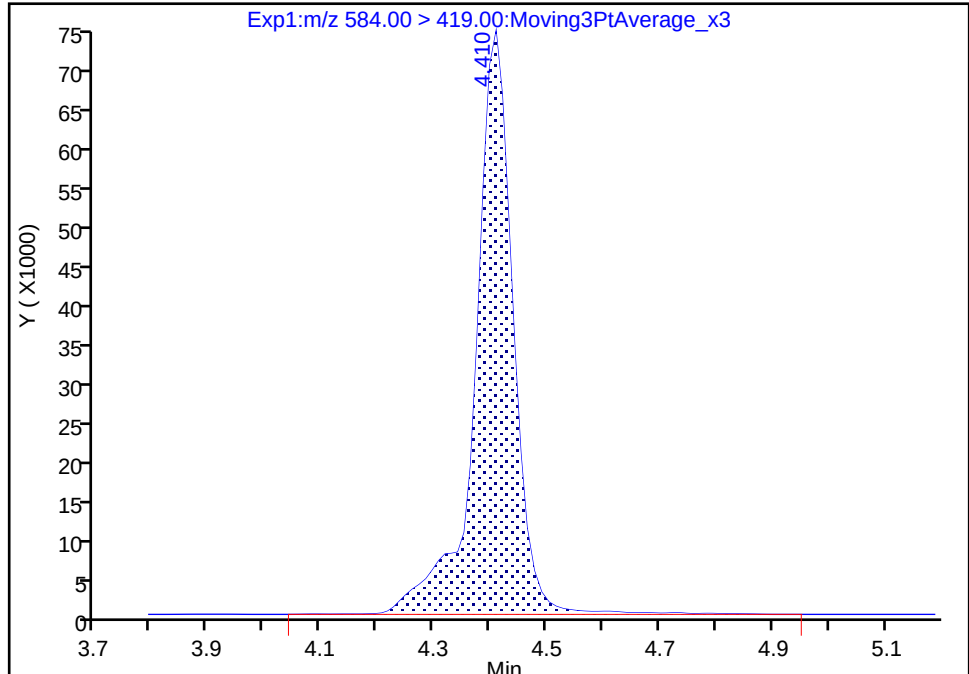
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

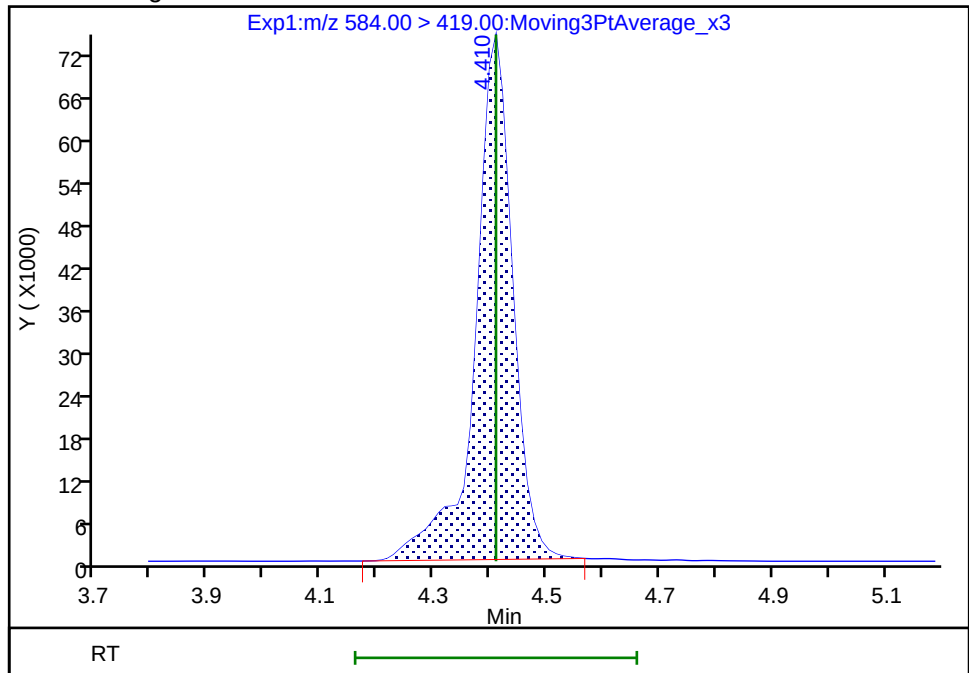
RT: 4.41
Area: 347720
Amount: 2.494904
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 339355
Amount: 2.460743
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 355 of 978

11/21/2022
4:10 PM

Eurofins Burlington

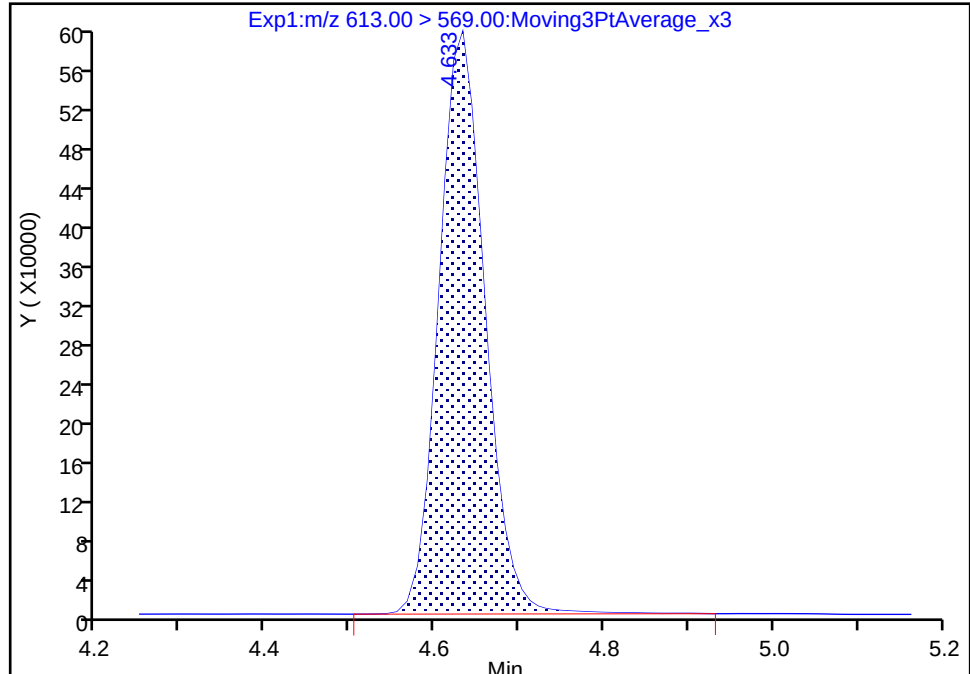
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

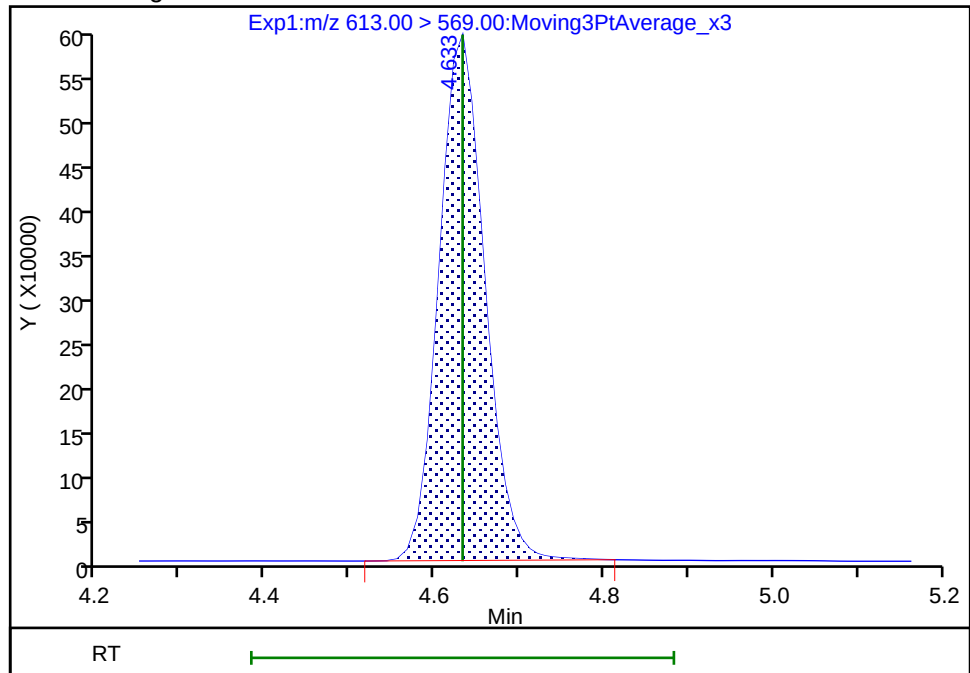
RT: 4.63
Area: 2250683
Amount: 2.359845
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 2236229
Amount: 2.387145
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 356 of 978

11/21/2022
4:10 PM

Eurofins Burlington

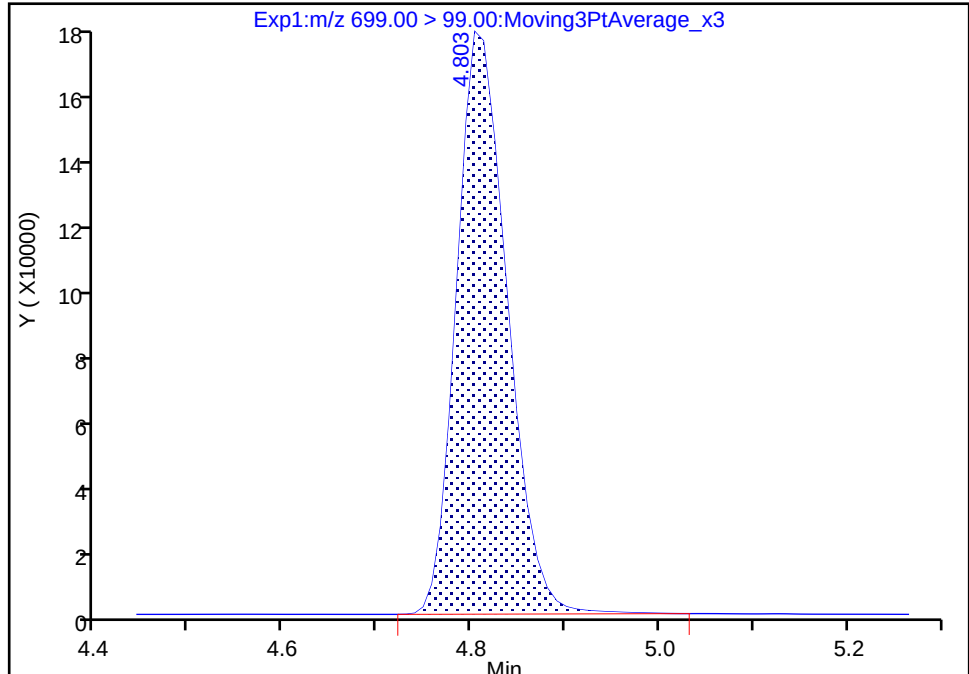
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

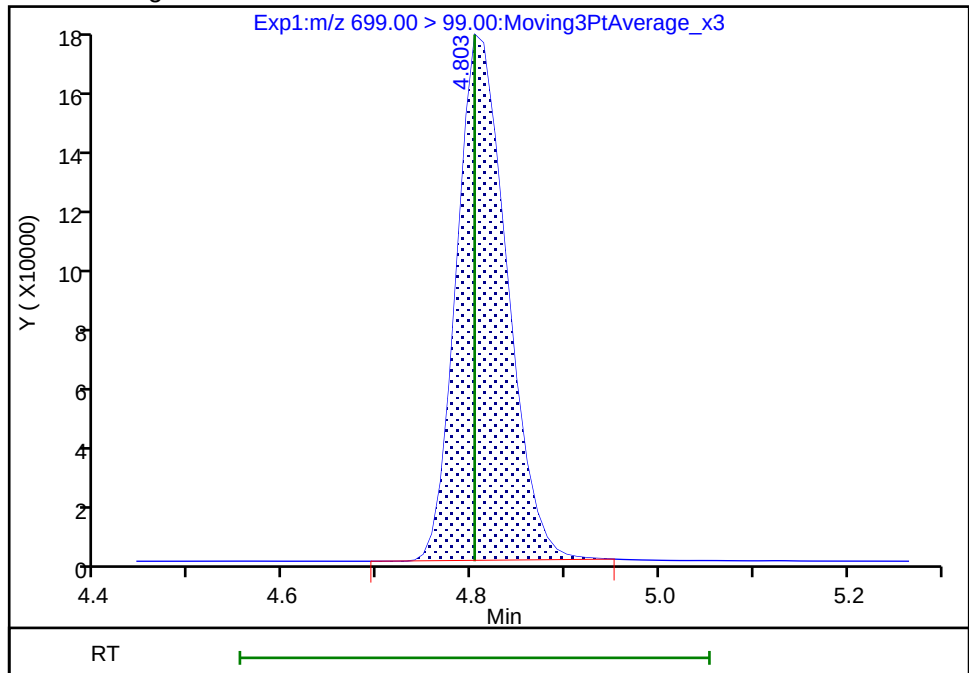
RT: 4.80
Area: 645841
Amount: 2.198563
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 640623
Amount: 2.233451
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 357 of 978

11/21/2022
4:10 PM

Eurofins Burlington

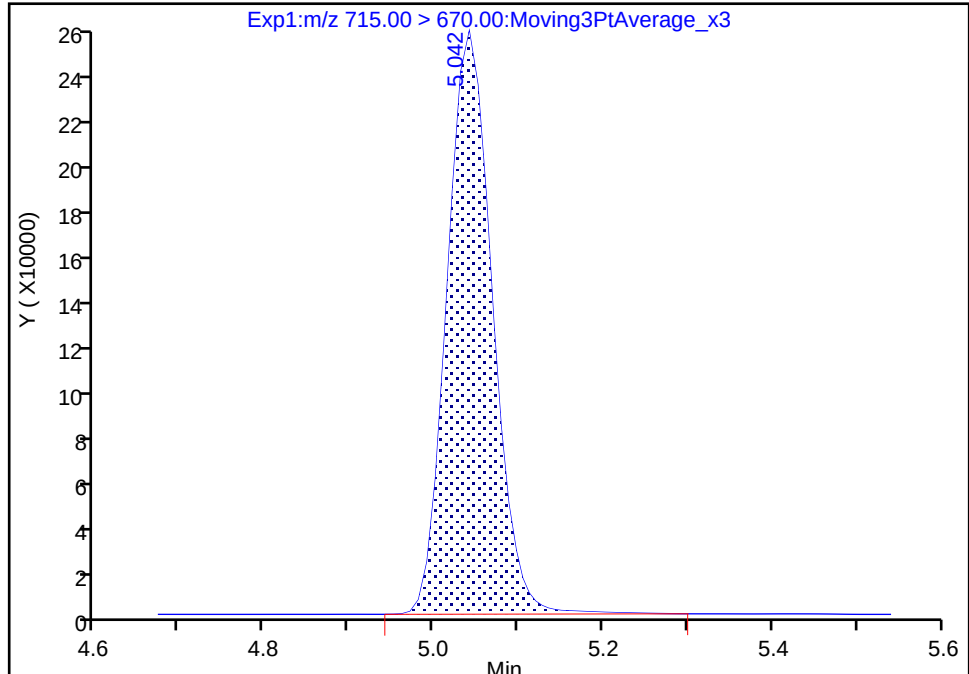
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

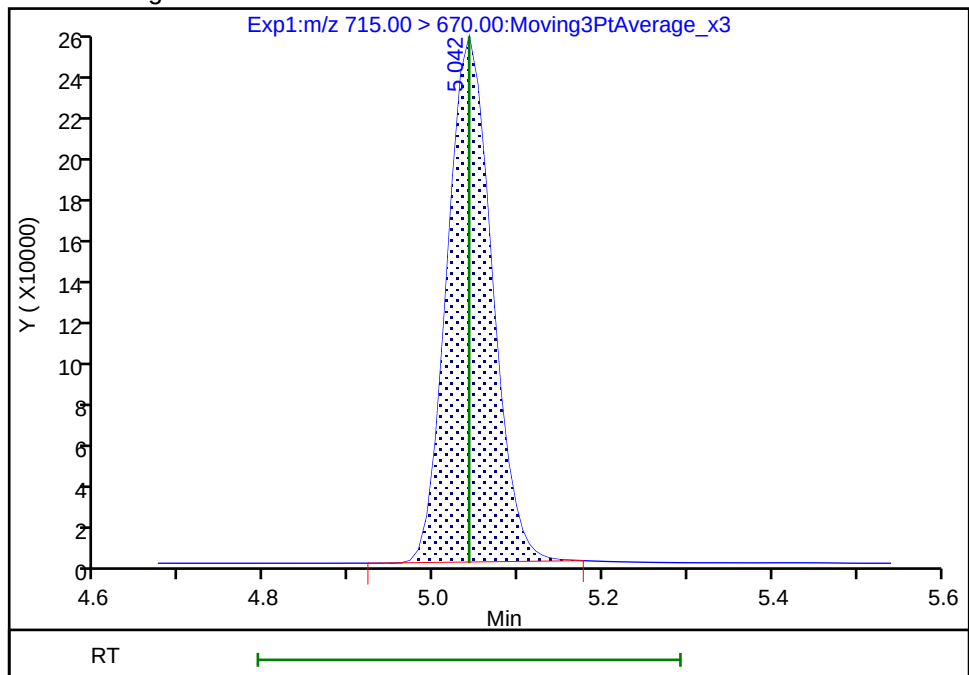
RT: 5.04
Area: 941299
Amount: 1.226584
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 929944
Amount: 1.206293
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 358 of 978

11/21/2022
4:10 PM

Eurofins Burlington

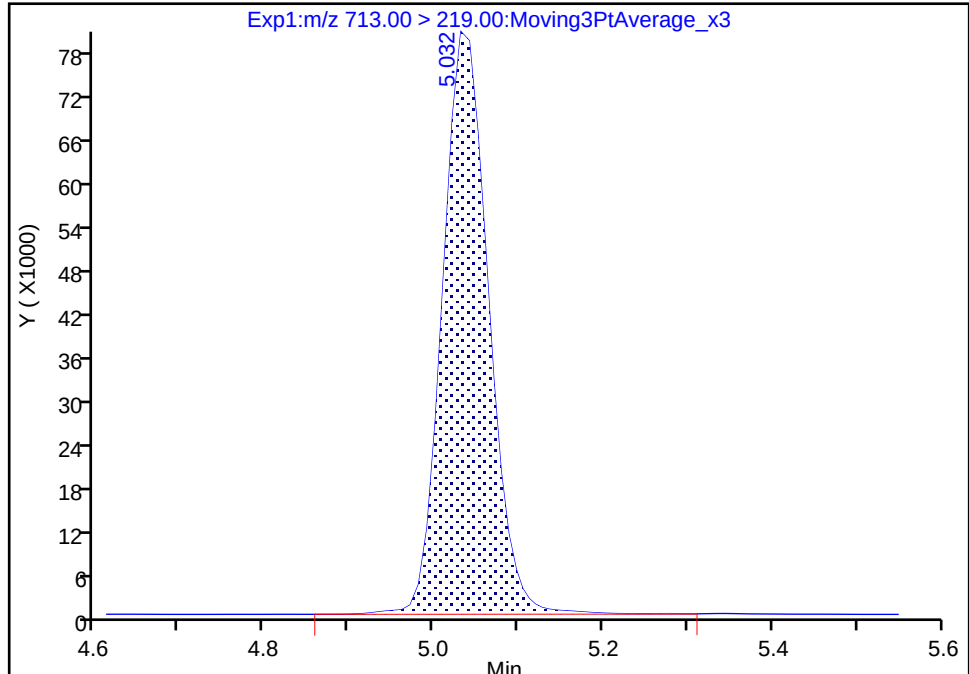
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

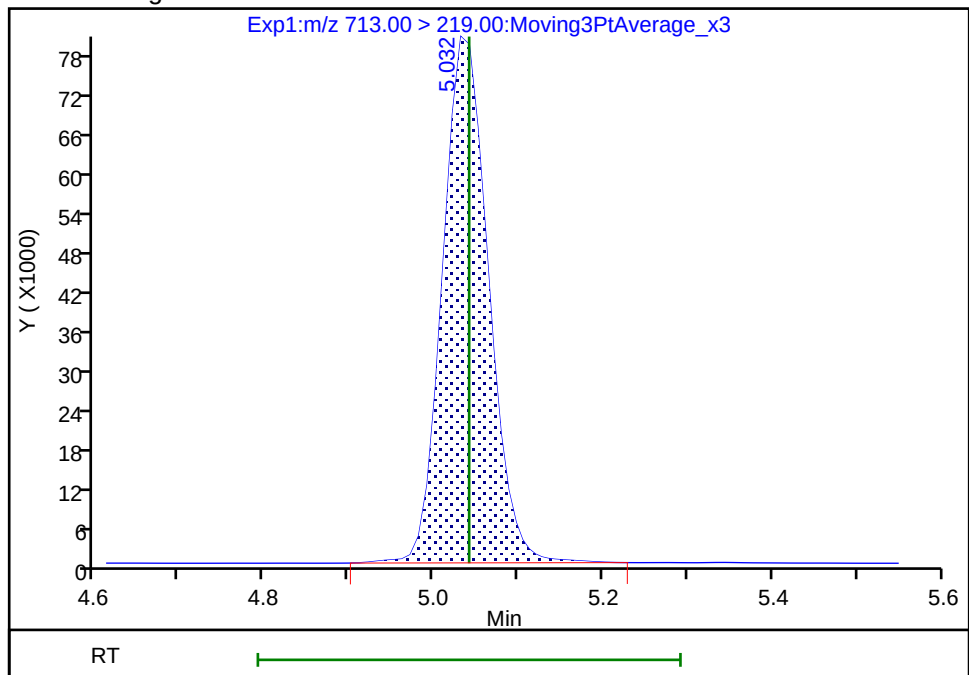
RT: 5.03
Area: 302886
Amount: 2.362448
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 301832
Amount: 2.426763
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

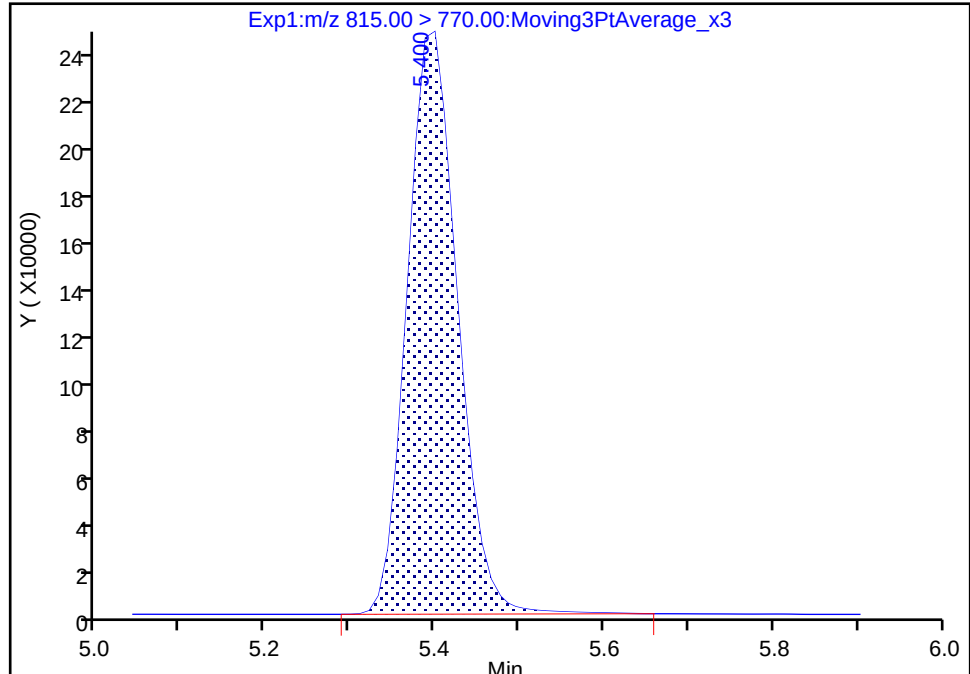
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL09.d
Injection Date: 14-Sep-2022 11:06:22 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

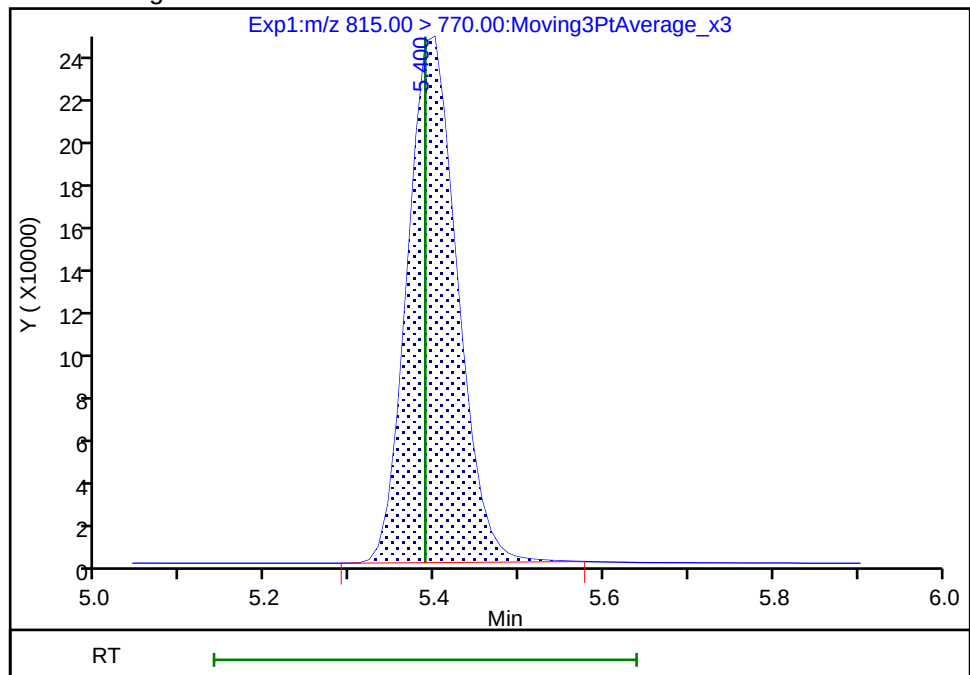
RT: 5.40
Area: 1024682
Amount: 1.218540
Amount Units: ng/ml

Processing Integration Results



RT: 5.40
Area: 1018455
Amount: 1.196706
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:26:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 360 of 978

11/21/2022
4:10 PM

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-Sep-2022 11:14:32 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0052438-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 11:35:59 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 11:35:59

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 2.094 2.093 0.001 0.601 1698736 1.28 102 10125

2 Perfluorobutanoic acid

212.90 > 169.00 2.094 2.102 -0.008 1.000 12558248 9.13 91.3 1430 M

D 3 13C5 PFPeA

267.90 > 223.00 2.402 2.413 -0.011 0.689 1368680 1.31 105 3004

4 Perfluoropentanoic acid

262.90 > 219.00 2.402 2.413 -0.011 1.000 10604495 9.05 90.5 334

D 47 13C3 PFBS

301.90 > 80.00 2.429 2.426 0.003 0.697 1272162 1.20 103 188880

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.429 2.426 0.003 1.000 9826830 7.79 Target=2.15 88.1 3249 M

298.90 > 99.00 2.429 2.426 0.003 1.000 4769842 2.06(1.07-3.22) 88.1 2602 M

D 60 M2-4:2 FTS

329.00 > 81.00 2.716 2.725 -0.009 0.779 111337 1.16 99.4 118

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.716 2.725 -0.009 1.000 2294421 8.87 95.0 4409

D 7 13C2 PFHxA

315.00 > 270.00 2.752 2.762 -0.010 0.790 1332557 1.25 100 2293

6 Perfluorohexanoic acid

313.00 > 269.00 2.752 2.762 -0.010 1.000 10881505 9.40 Target=13.89 94.0 1063 M

313.00 > 119.00 2.752 2.762 -0.010 1.000 805658 13.51(6.95-20.84) 94.0 1209

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.764 2.774 -0.010 0.885 9021346 8.58 Target=3.05 91.4 5771

349.00 > 99.00 2.764 2.774 -0.010 0.885 3035084 2.97(1.53-4.58) 91.4 4938

D 64 13C3 HFPO-DA

287.00 > 169.00 2.862 2.871 -0.009 0.821 256501 1.29 103 1133

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	2.862	2.871	-0.009	1.000	2086385	9.31		93.1	1657	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.123	3.132	-0.009	1.000	11014840	9.23	Target=4.00	92.3	1583	M
363.00 > 169.00	3.123	3.132	-0.009	1.000	2701444		4.08(2.00-6.00)	92.3	1752	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.123	3.132	-0.009	0.896	1338339	1.28		103	2332	
D 11 18O2 PFHxS										M
403.00 > 84.00	3.123	3.132	-0.009	0.896	906172	1.20		101	1413	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.123	3.132	-0.009	1.000	7676456	8.61	Target=3.63	94.6	1853	M
399.00 > 99.00	3.123	3.132	-0.009	1.000	1995210		3.85(1.82-5.45)	94.6	899	M
77 DONA										M
377.00 > 251.00	3.168	3.165	0.003	0.835	24171345	8.70	Target=3.03	92.4	2992	M
377.00 > 85.00	3.168	3.165	0.003	0.835	8103191		2.98(1.52-4.55)	92.4	1500	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.467	3.473	-0.006	0.913	6189936	8.79	Target=5.20	92.3	2093	M
449.00 > 99.00	3.467	3.473	-0.006	0.913	1186907		5.22(2.60-7.80)	92.3	1500	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.467	3.481	-0.014	1.000	2041604	8.91		94.0	421	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.467	3.481	-0.014	0.995	149414	1.16		97.5	454	
D 14 13C4 PFOA										
417.00 > 372.00	3.485	3.490	-0.005	1.000	1343616	1.20		96.3	1925	
* 62 13C2 PFOA										M
415.00 > 370.00	3.485	3.490	-0.005		1360753	1.25			1547	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.485	3.490	-0.005	1.000	11962019	9.83	Target=2.83	98.3	633	M
413.00 > 169.00	3.485	3.490	-0.005	1.000	4169580		2.87(1.41-4.24)	98.3	2277	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.796	3.801	-0.005	1.000	5172308	8.52	Target=5.27	91.8	1346	M
499.00 > 99.00	3.796	3.801	-0.005	1.000	1035802		4.99(2.64-7.91)	91.8	1861	M
D 18 13C4 PFOS										
503.00 > 80.00	3.796	3.801	-0.005	1.089	597271	1.20		100	969	
D 19 13C5 PFNA										
468.00 > 423.00	3.816	3.821	-0.005	1.095	1396216	1.27		102	3418	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.816	3.821	-0.005	1.000	10598556	9.04	Target=8.24	90.4	1502	M
463.00 > 169.00	3.816	3.821	-0.005	1.000	1310995		8.08(4.12-12.36)	90.4	1478	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.963	3.969	-0.006	1.044	10742319	8.82		94.6	2985	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.096	4.104	-0.008	1.079	3958487	8.95	Target=2.56	93.2	4735	
549.00 > 99.00	4.096	4.104	-0.008	1.079	1603862		2.47(1.28-3.84)	93.2	4754	
D 23 13C2 PFDA										
515.00 > 470.00	4.119	4.127	-0.008	1.182	1279123	1.20		95.9	3910	

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	4.119	4.127	-0.008	1.000	10417771	9.47	Target=9.84	94.7	2232	M
513.00 > 169.00	4.119	4.127	-0.008	1.000	1061209		9.82(4.92-14.76)	94.7	1428	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.130	4.138	-0.008	1.185	185620	1.22		102	726	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.130	4.138	-0.008	1.000	1690279	8.80		91.8	2586	M
D 21 13C8 FOSA										
506.00 > 78.00	4.188	4.184	0.004	1.202	1100399	1.27		101	2731	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.188	4.196	-0.008	1.000	8517155	9.58		95.8	2080	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.265	4.273	-0.008	1.224	188601	1.26		100	187	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.265	4.273	-0.008	1.000	1377949	9.88		98.8	595	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.358	4.365	-0.007	1.148	3064695	8.89	Target=2.77	92.2	4909	
599.00 > 99.00	4.358	4.365	-0.007	1.148	1150415		2.66(1.38-4.15)	92.2	1182	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.392	4.399	-0.007	1.000	8093562	8.88	Target=9.37	88.8	1908	M
563.00 > 169.00	4.392	4.399	-0.007	1.000	892934		9.06(4.68-14.05)	88.8	2257	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.403	4.399	0.004	1.263	182431	1.22		97.9	741	
D 30 13C2 PFUnA										
565.00 > 520.00	4.392	4.399	-0.007	1.260	1092116	1.25		100	2167	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.403	4.410	-0.007	1.000	1295033	9.71		97.1	1185	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.495	4.491	0.004	1.184	13803551	8.71		92.4	2866	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.625	4.633	-0.008	1.000	8496451	9.16	Target=7.06	91.6	817	M
613.00 > 169.00	4.625	4.633	-0.008	1.000	1203517		7.06(3.53-10.59)	91.6	1863	M
D 36 13C2 PFDaA										M
615.00 > 570.00	4.625	4.633	-0.008	1.327	1085469	1.27		102	1815	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.645	4.653	-0.008	1.125	942864	9.04		93.8	1485	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.806	4.803	0.003	1.266	1249382	8.91	Target=0.51	92.1	3426	M
699.00 > 99.00	4.806	4.803	0.003	1.266	2497201		0.50(0.25-0.76)	92.1	1869	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.839	4.848	-0.009	1.046	8044205	9.46	Target=5.01	94.6	924	M
663.00 > 169.00	4.839	4.848	-0.009	1.046	1565294		5.14(2.50-7.51)	94.6	2138	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.033	5.041	-0.008	1.000	1070761	9.14	Target=0.95	91.4	2602	M
713.00 > 219.00	5.033	5.041	-0.008	1.000	1139063		0.94(0.47-1.42)	91.4	1882	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.033	5.041	-0.008	1.444	941347	1.29		103	1948	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	5.389	5.388	0.001	1.546	1070310	1.33		107	3253	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.388	0.001	1.000	7438664	9.78	Target=4.99	97.8	1042	M
813.00 > 169.00	5.389	5.388	0.001	1.000	1484674		5.01(2.49-7.48)	97.8	1982	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.741	5.731	0.010	1.065	5596168	9.04	Target=5.05	90.4	578	M
913.00 > 169.00	5.732	5.731	0.001	1.064	1104358		5.07(2.53-7.58)	90.4	666	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\20220914-52438.b\PA220914ICAL10.d

Injection Date: 14-Sep-2022 11:14:32

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

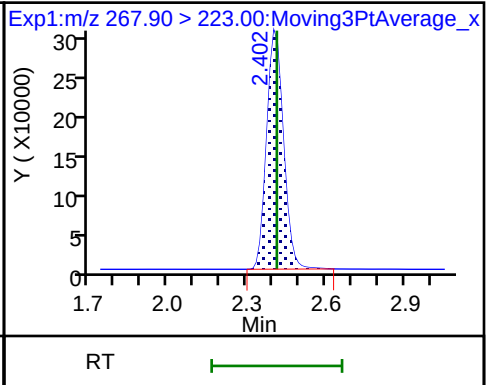
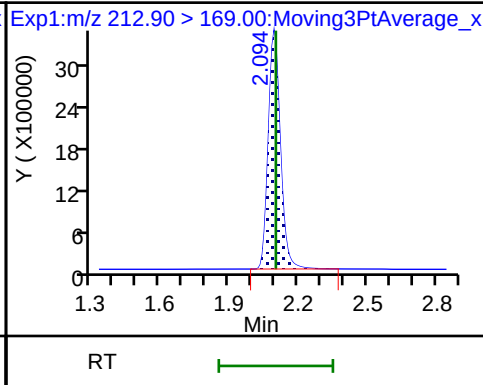
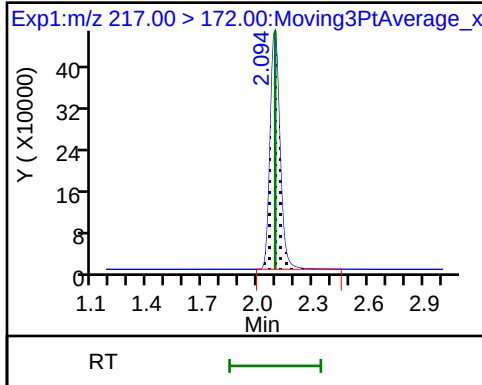
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

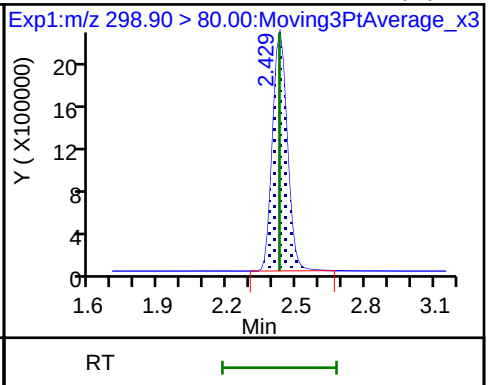
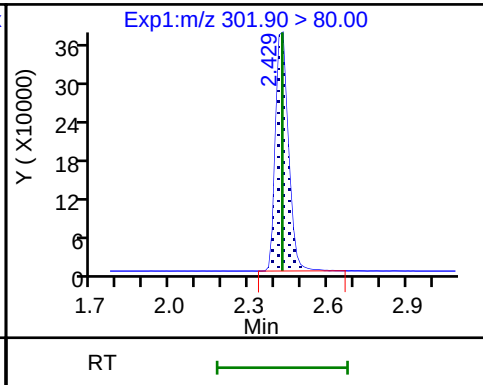
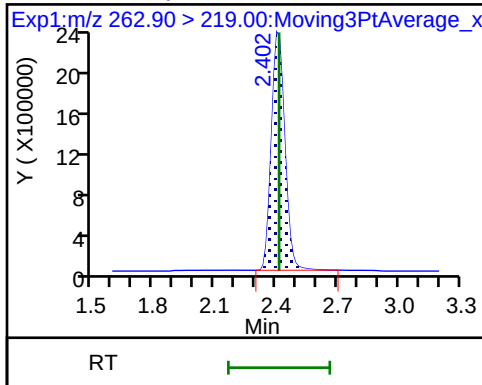
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

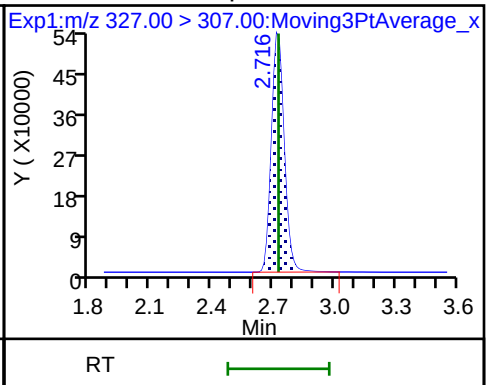
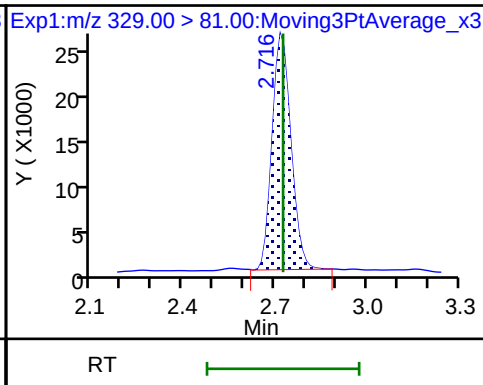
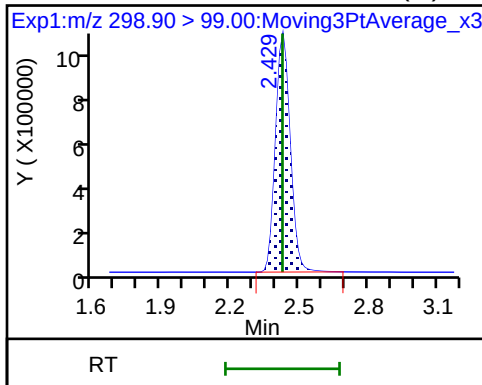
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS

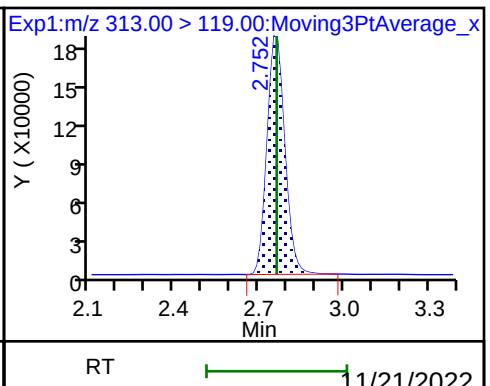
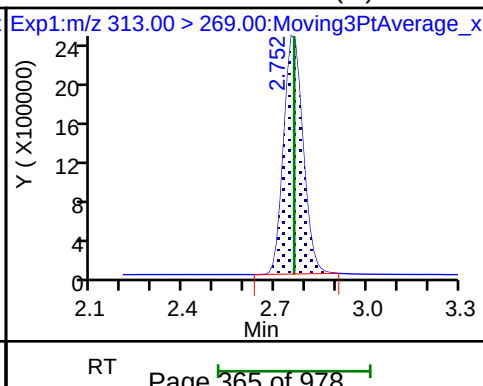
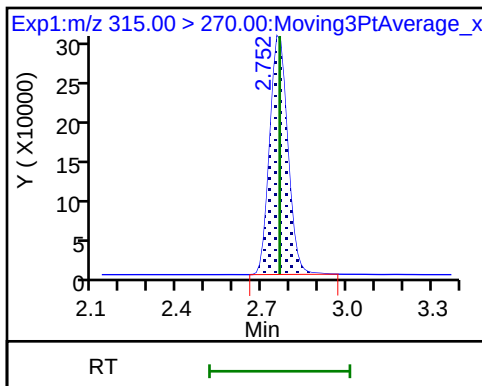
61 1H,1H,2H,2H-perfluorohexanesulfo

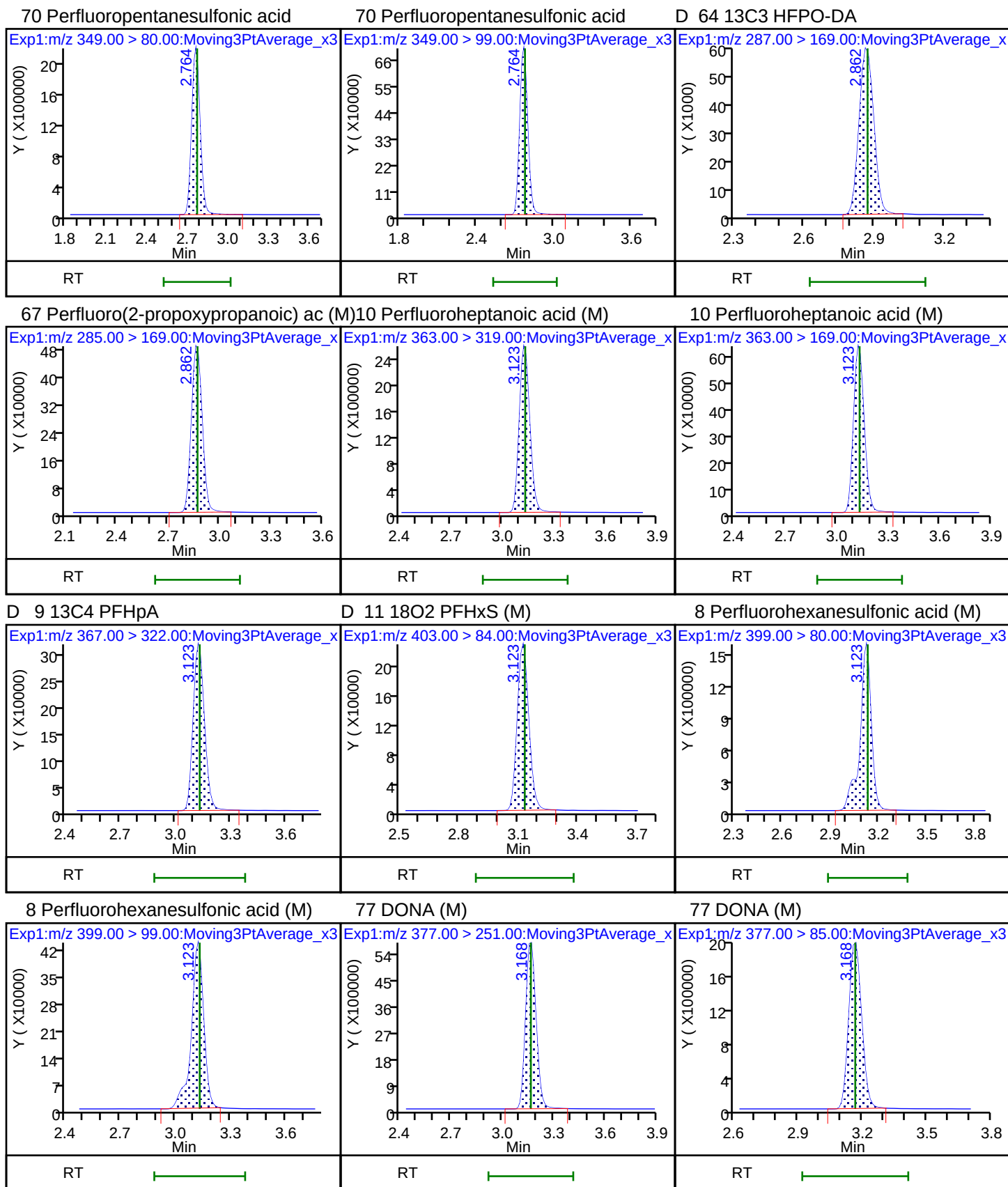


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

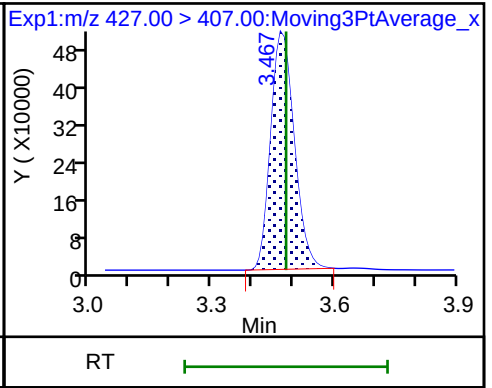
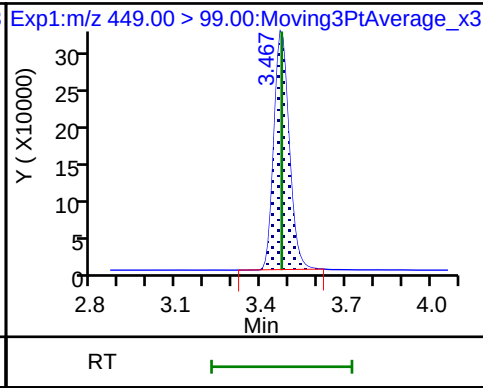
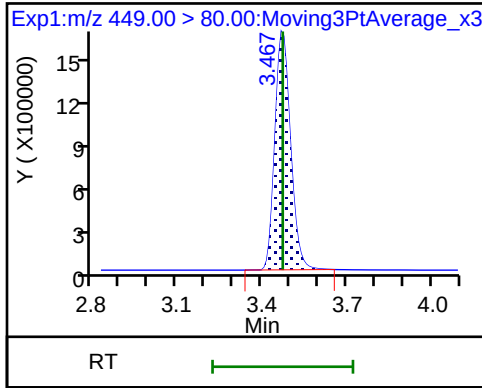




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

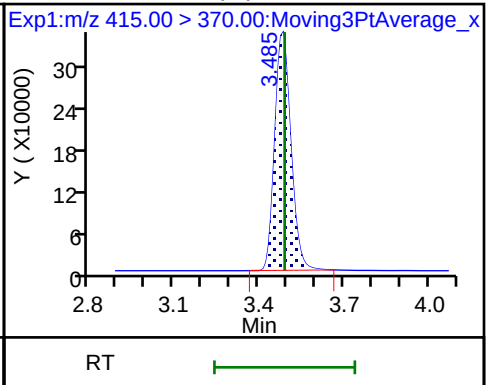
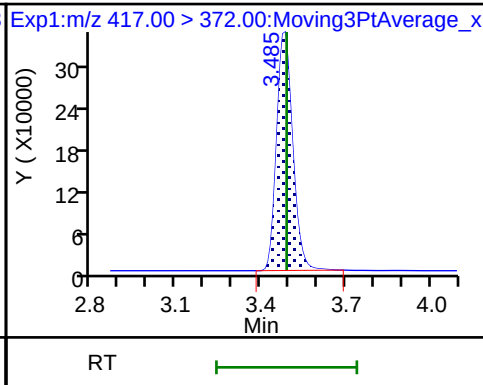
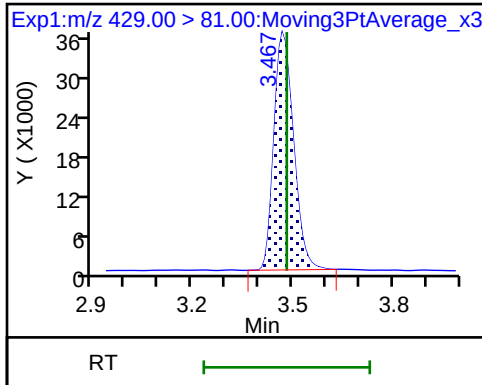
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

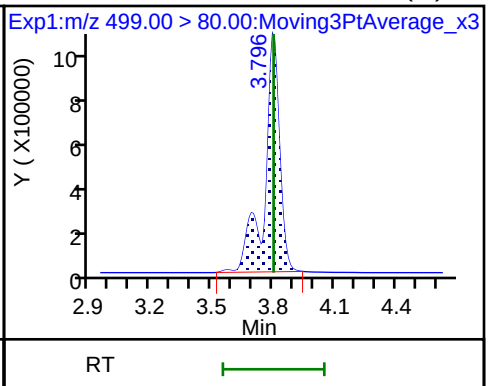
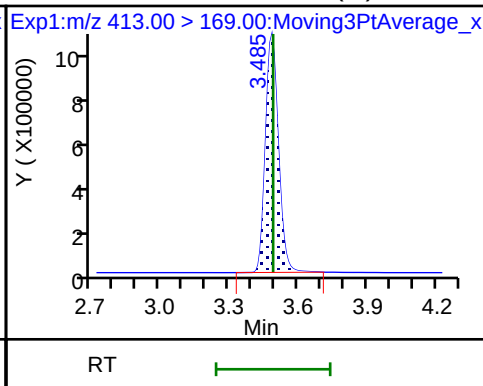
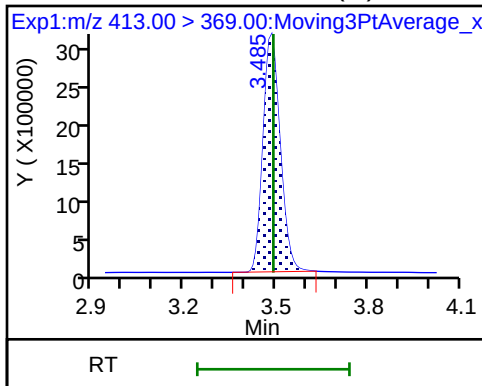
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

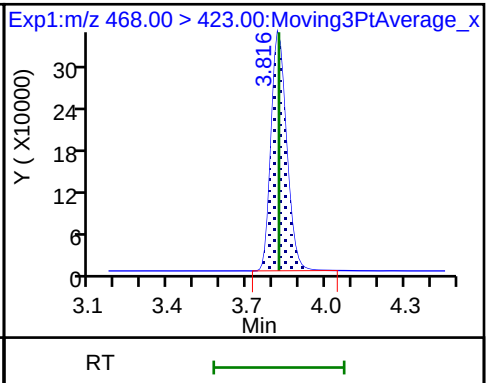
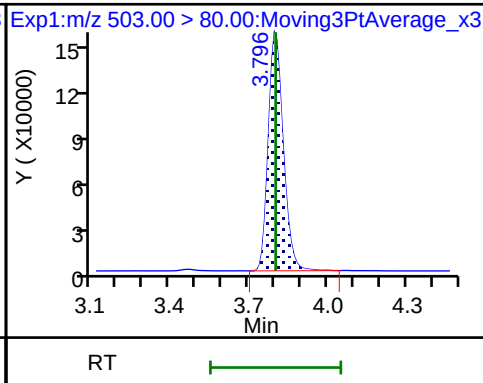
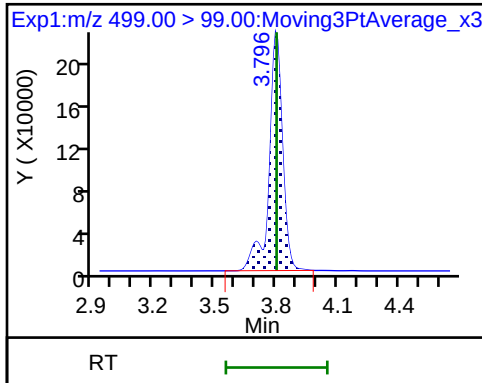
17 Perfluorooctanesulfonic acid (M)

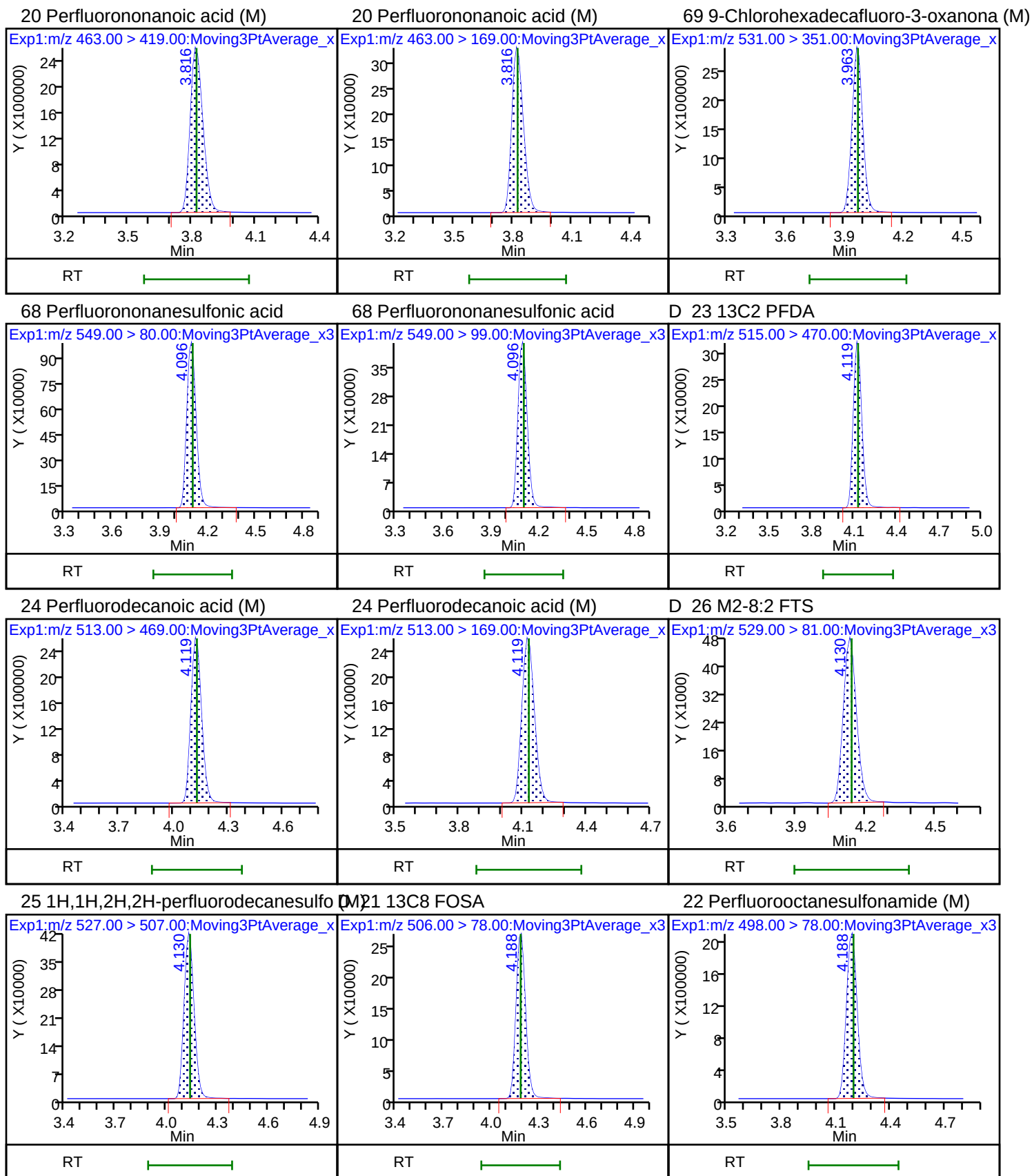


17 Perfluorooctanesulfonic acid (M)

D 18 13C4 PFOS

D 19 13C5 PFNA

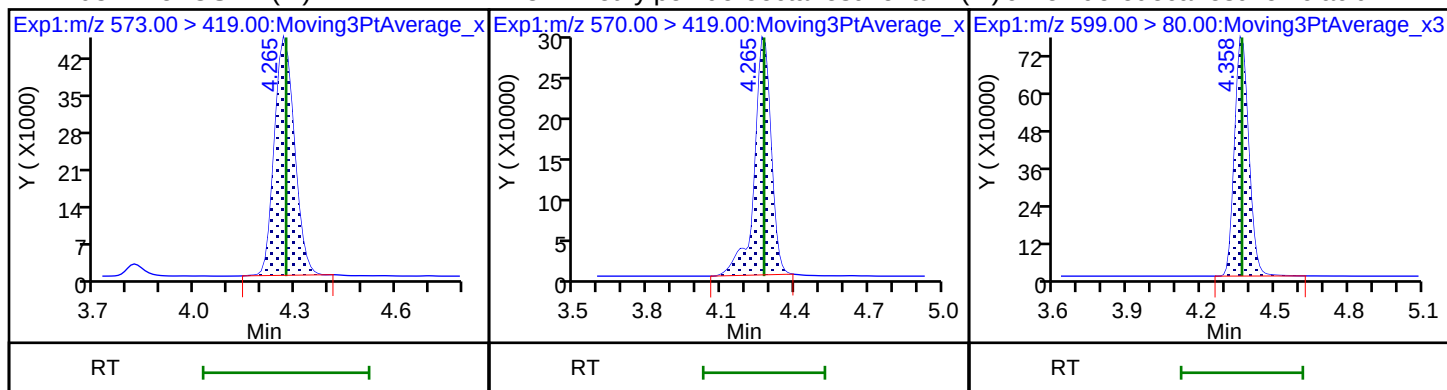




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

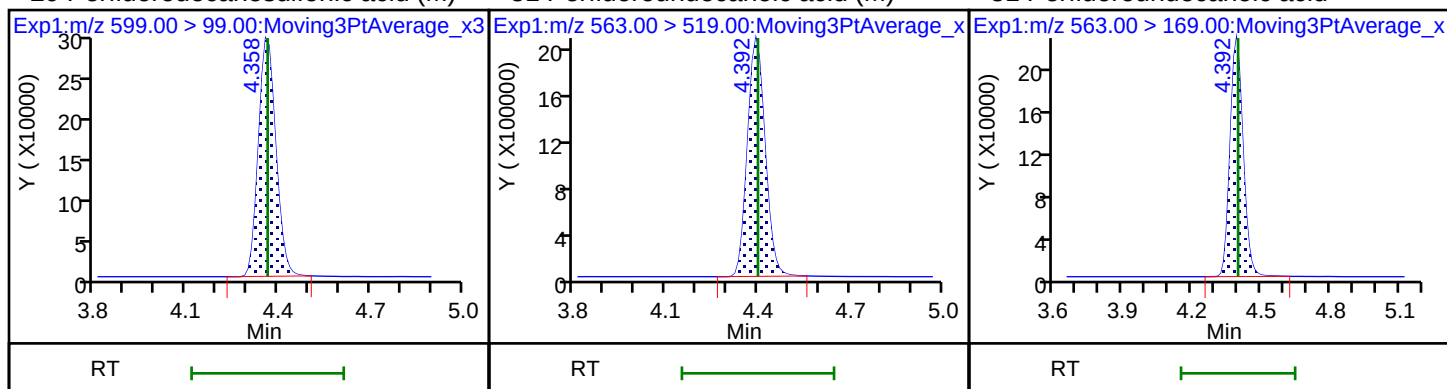
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

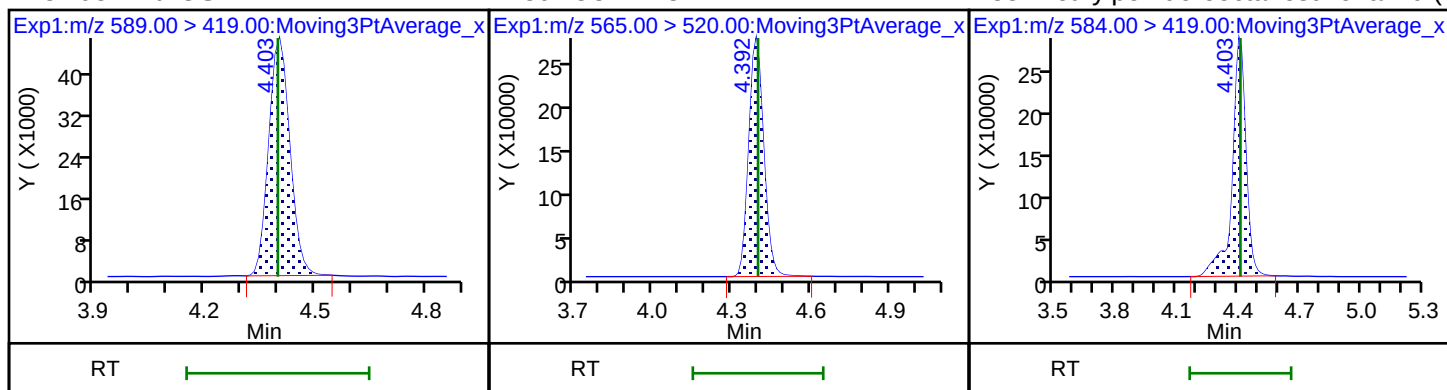
31 Perfluoroundecanoic acid



D 32 d5-NEtFOSAA

D 30 13C2 PFUnA

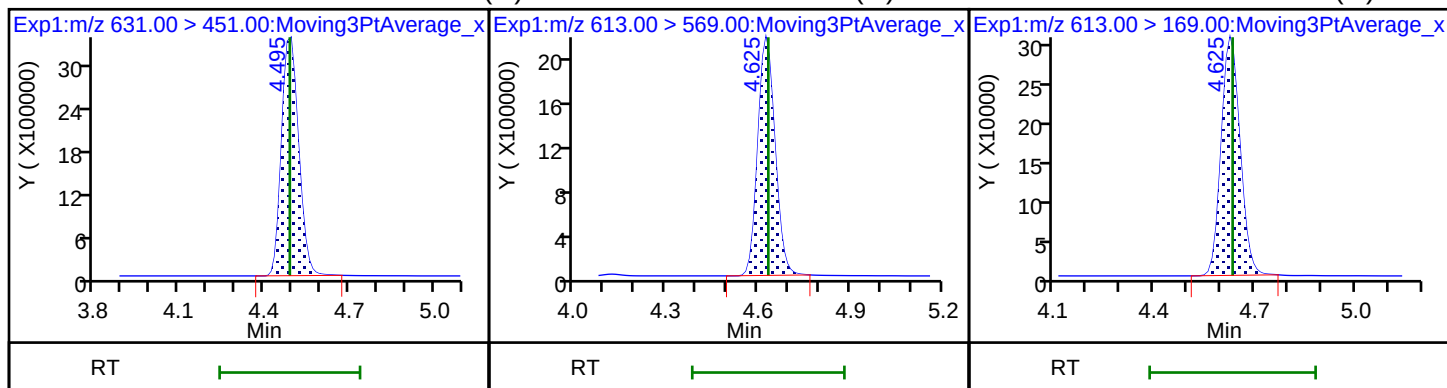
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

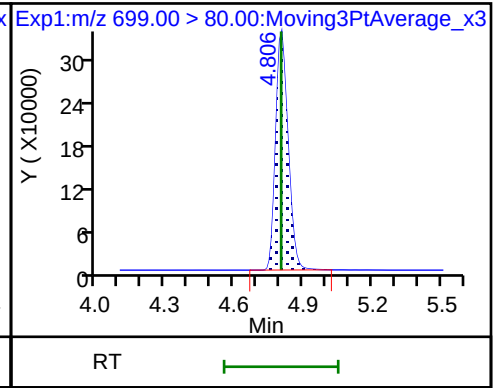
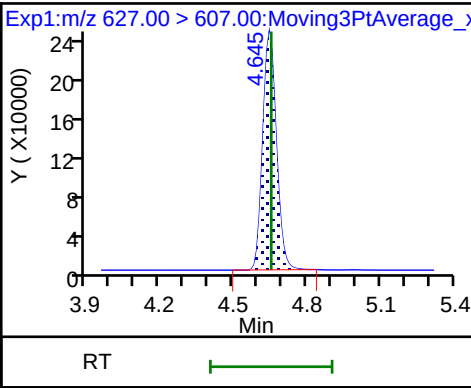
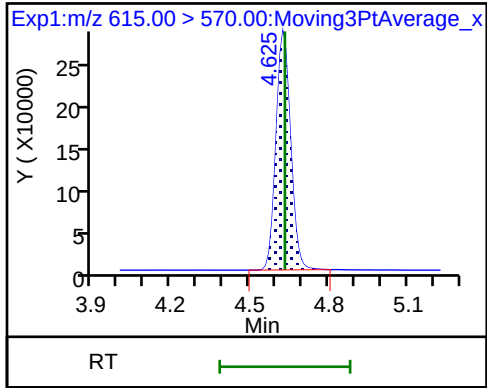
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



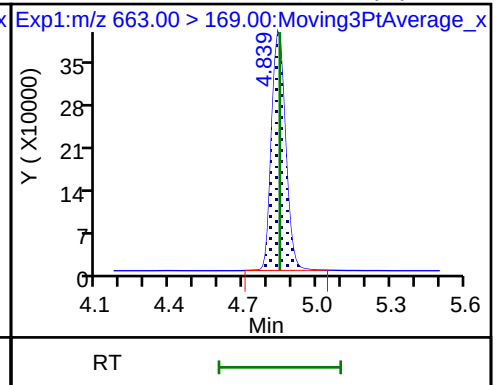
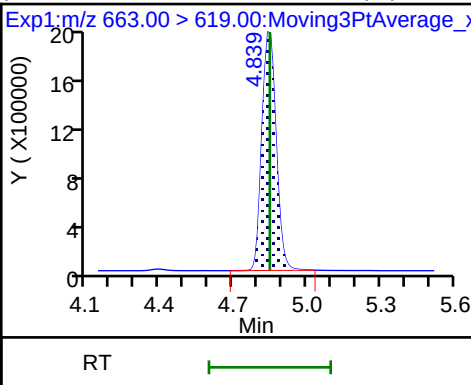
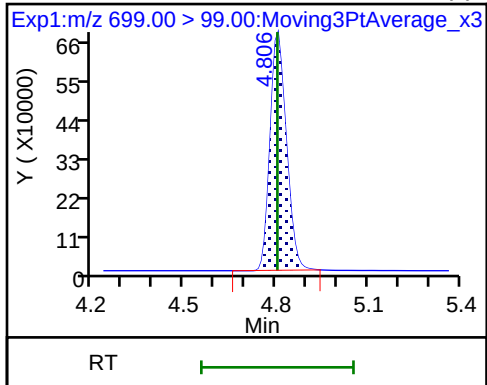
D 36 13C2 PFDa (M)

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

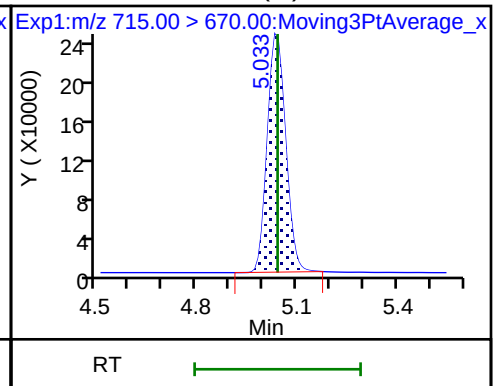
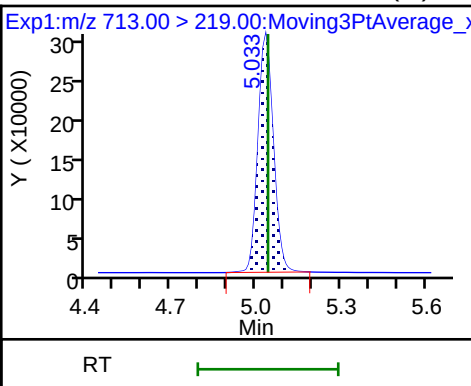
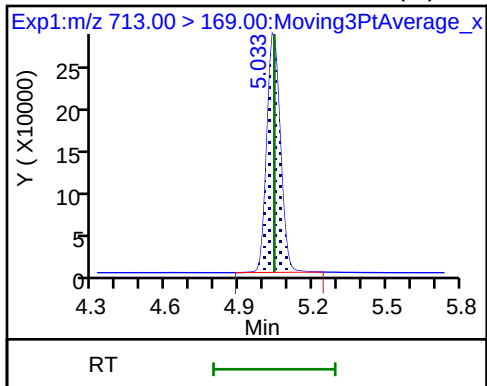
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

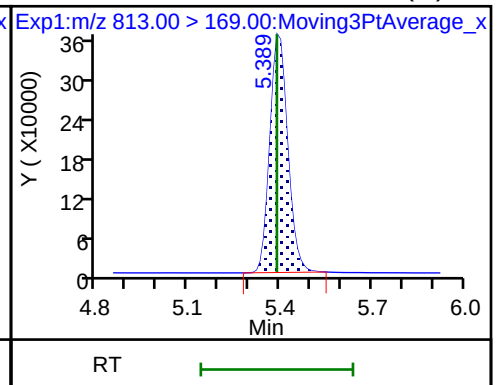
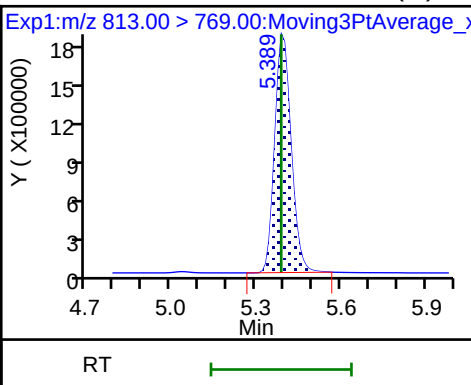
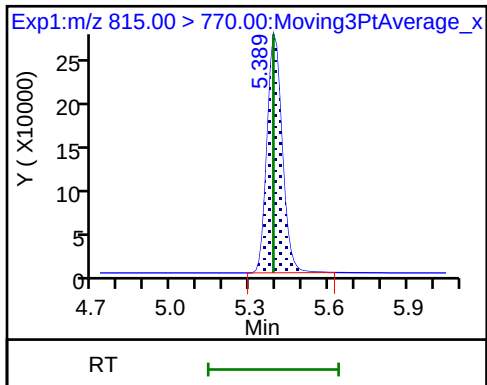
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

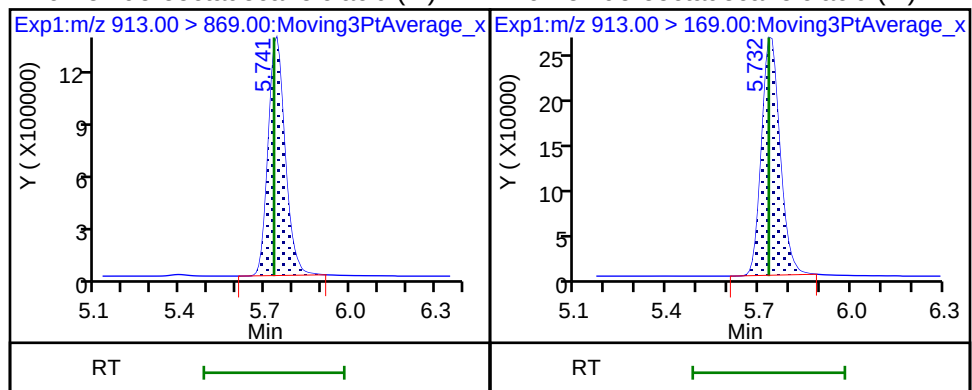
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

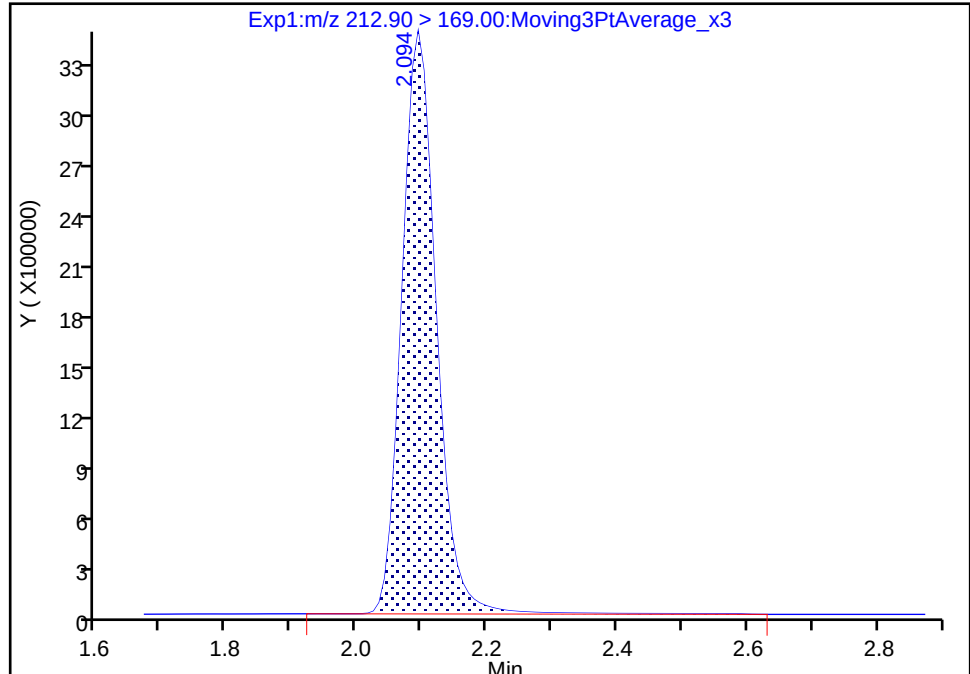
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

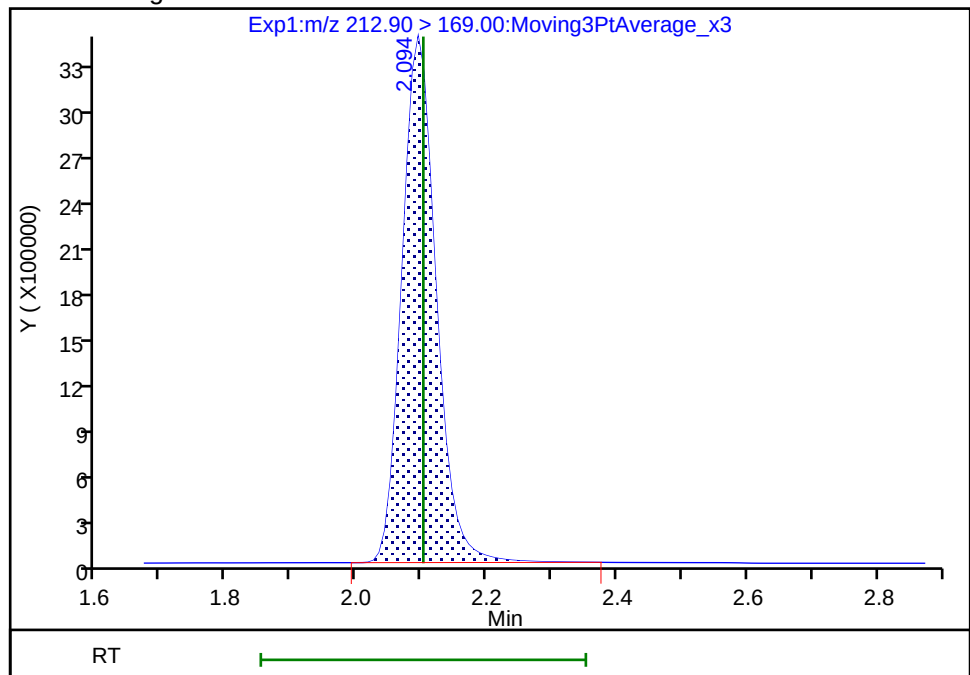
RT: 2.09
Area: 12668768
Amount: 9.195261
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 12558248
Amount: 9.127246
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:27:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 372 of 978

11/21/2022
4:10 PM

Eurofins Burlington

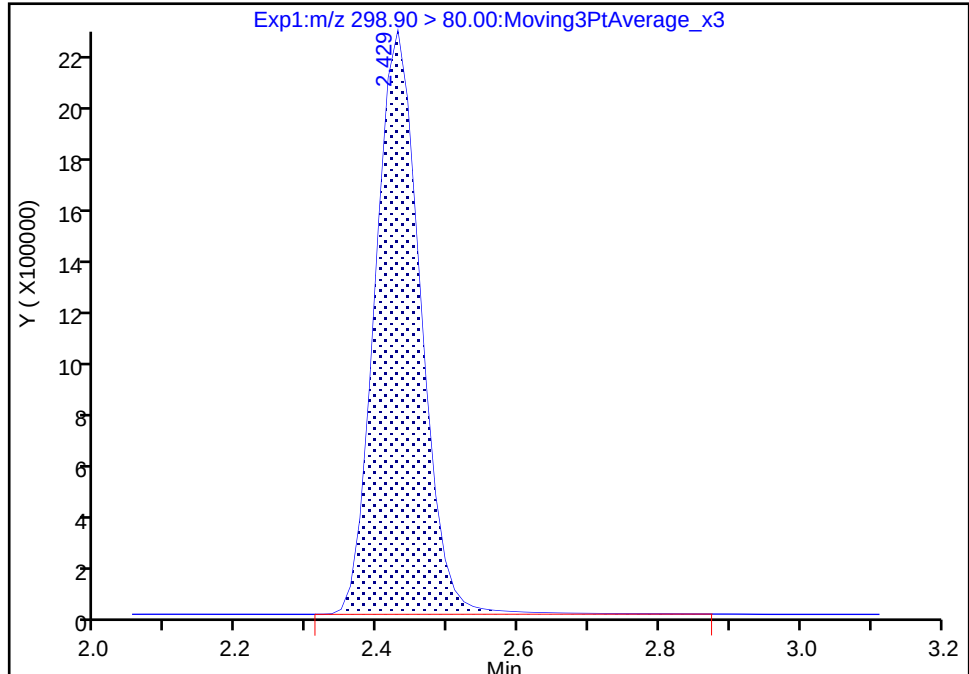
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

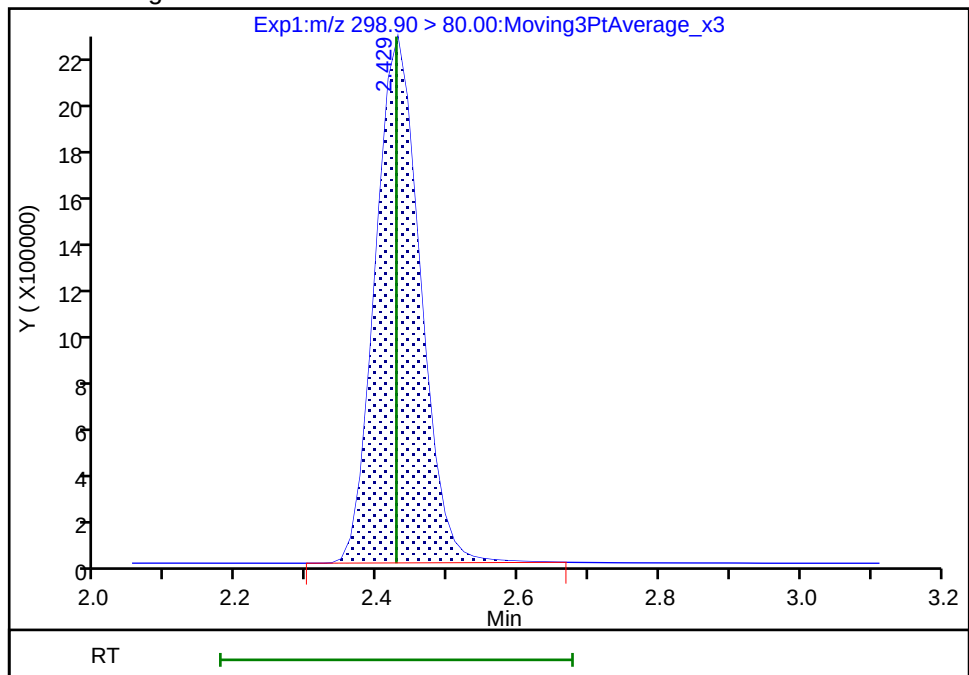
RT: 2.43
Area: 9876104
Amount: 7.822689
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 9826830
Amount: 7.789392
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:27:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 373 of 978

11/21/2022
4:10 PM

Eurofins Burlington

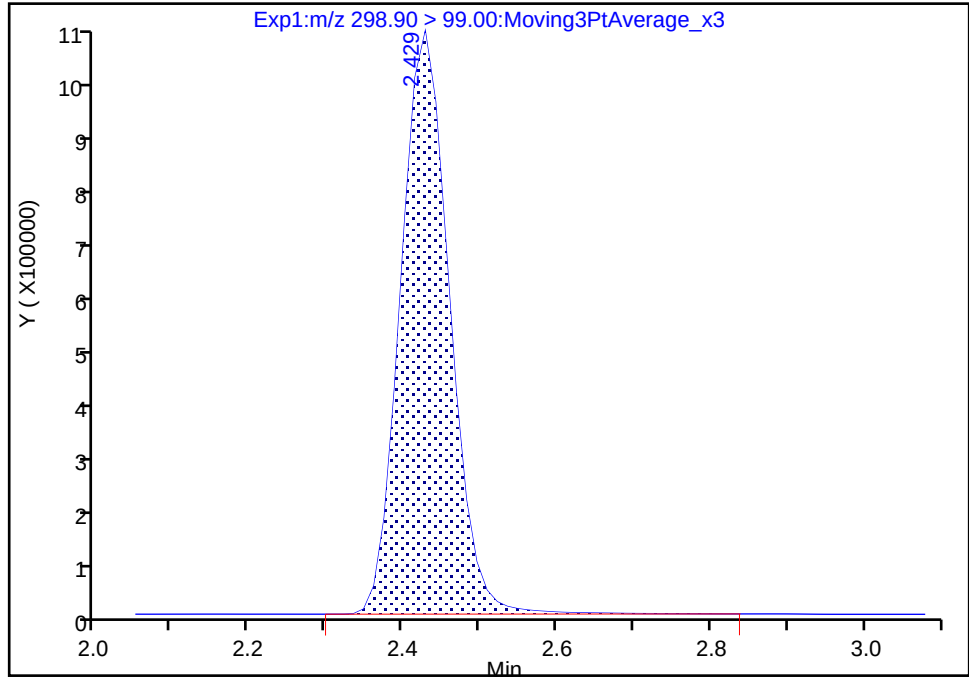
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

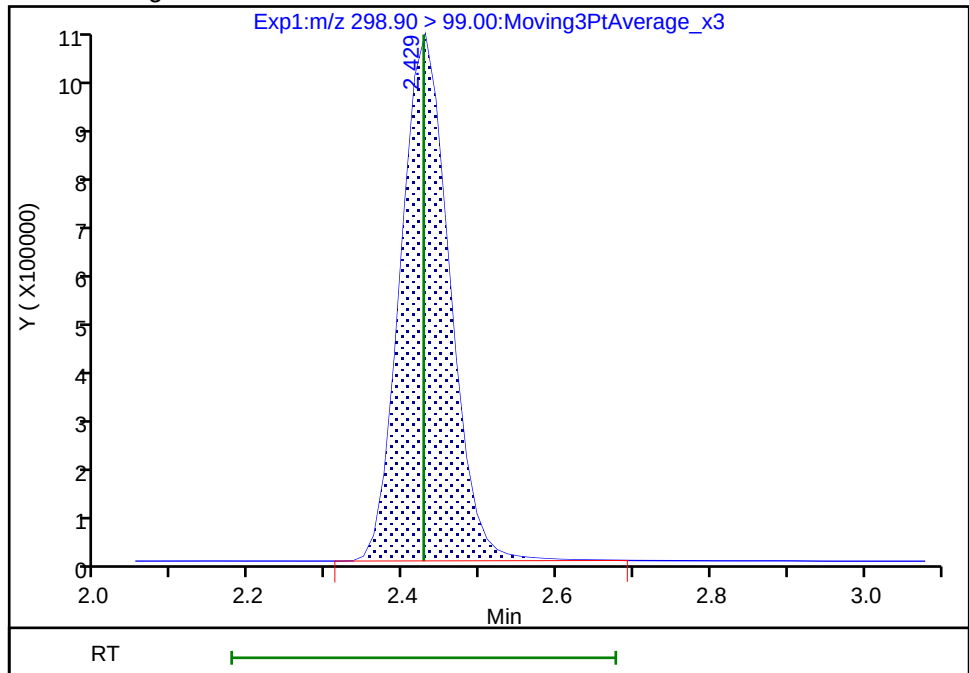
RT: 2.43
Area: 4783719
Amount: 7.822689
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 4769842
Amount: 7.789392
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:27:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 374 of 97811/21/2022
4:10 PM

Eurofins Burlington

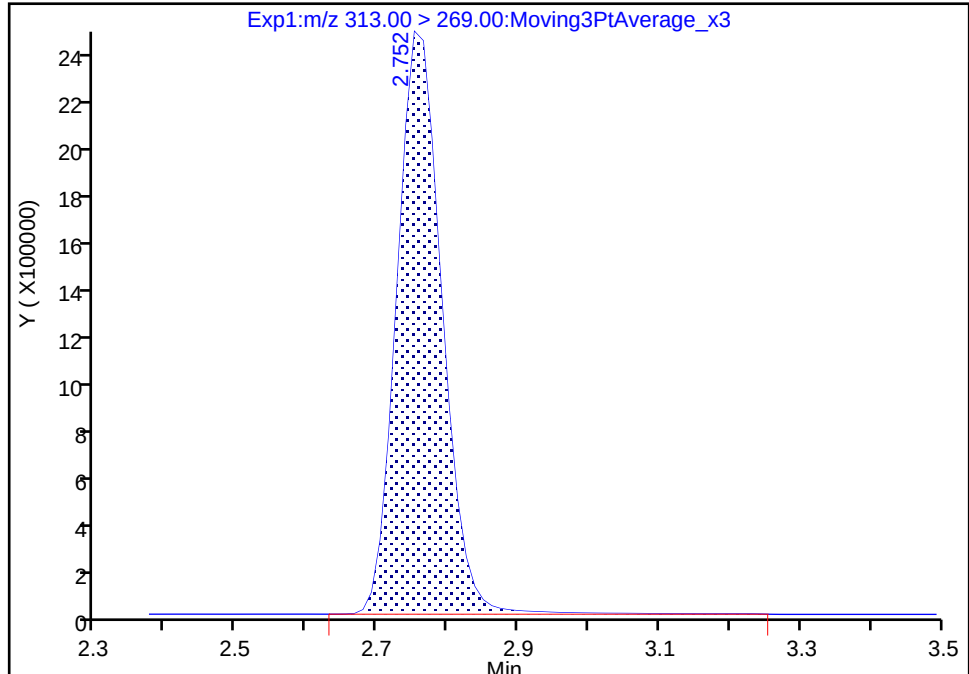
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

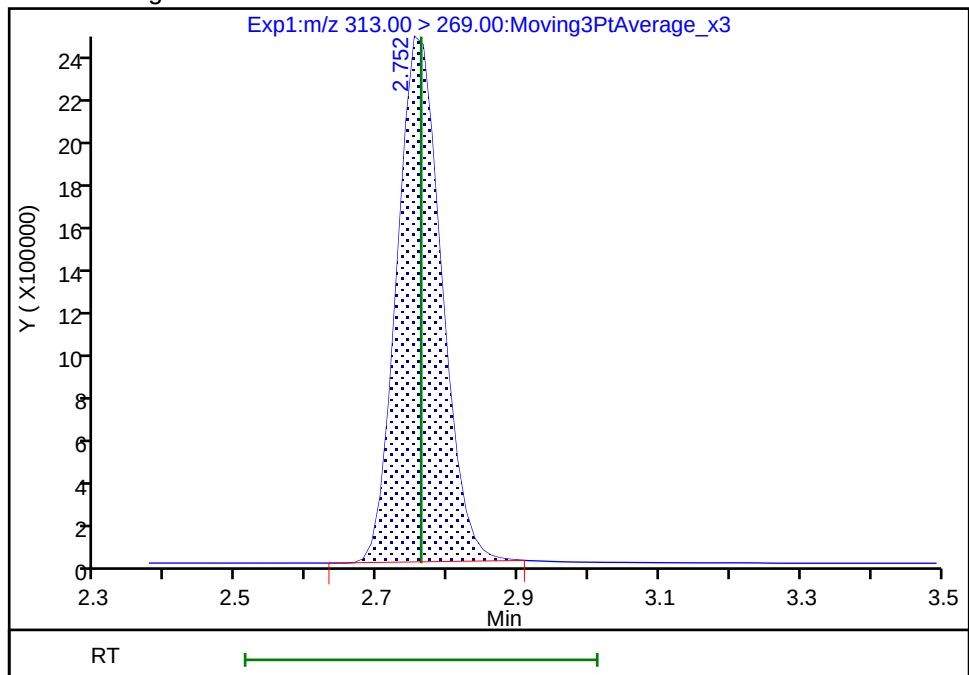
RT: 2.75
Area: 11056778
Amount: 9.529271
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 10881505
Amount: 9.401883
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 375 of 978

11/21/2022
4:10 PM

Eurofins Burlington

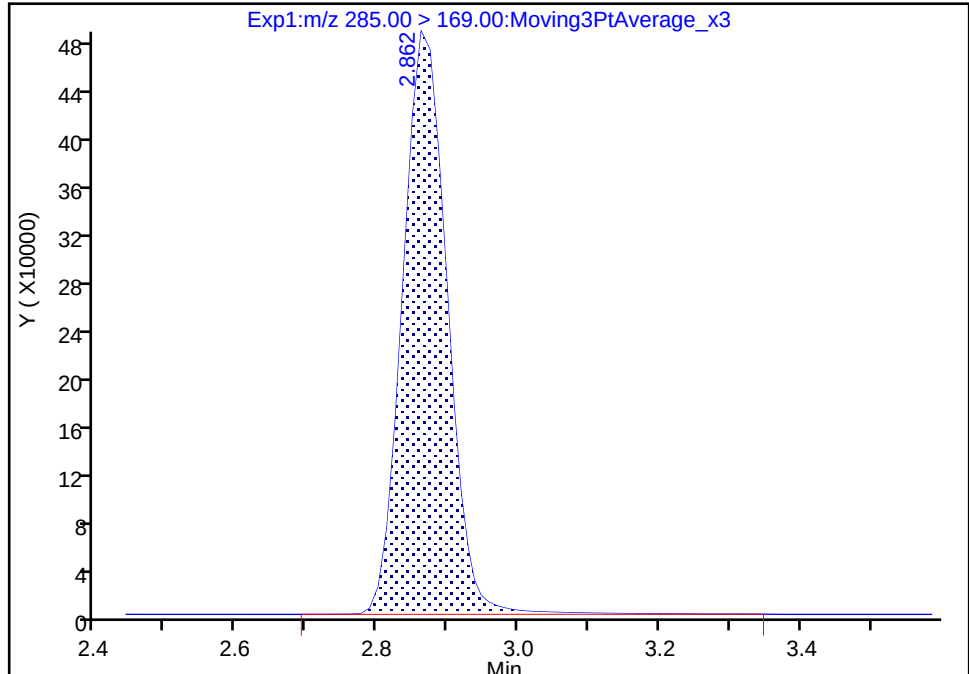
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

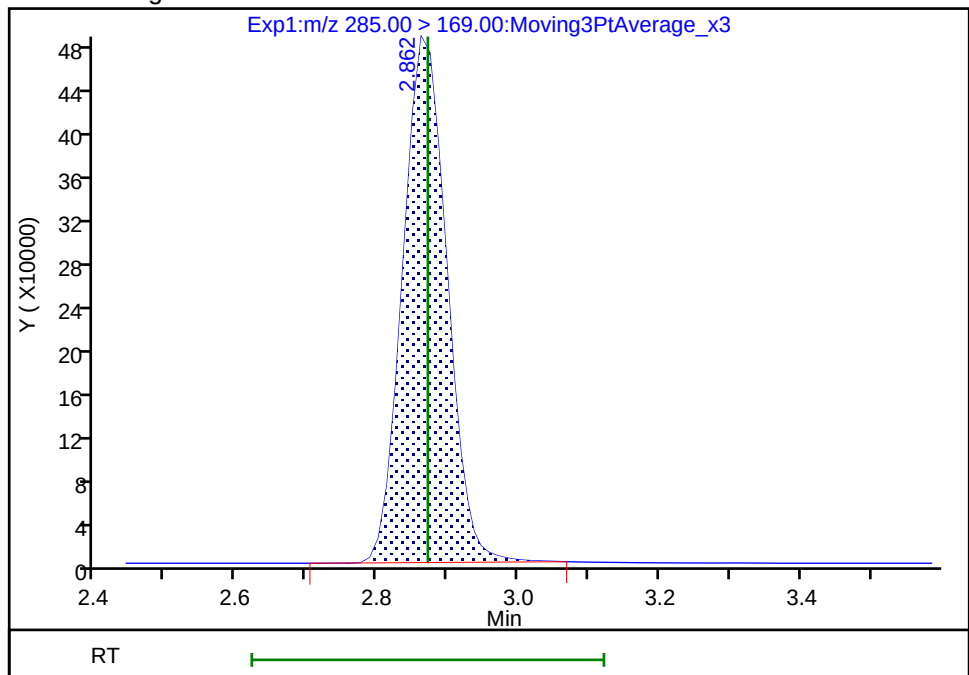
RT: 2.86
Area: 2107718
Amount: 9.388312
Amount Units: ng/ml

Processing Integration Results



RT: 2.86
Area: 2086385
Amount: 9.308031
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 376 of 978

11/21/2022
4:10 PM

Eurofins Burlington

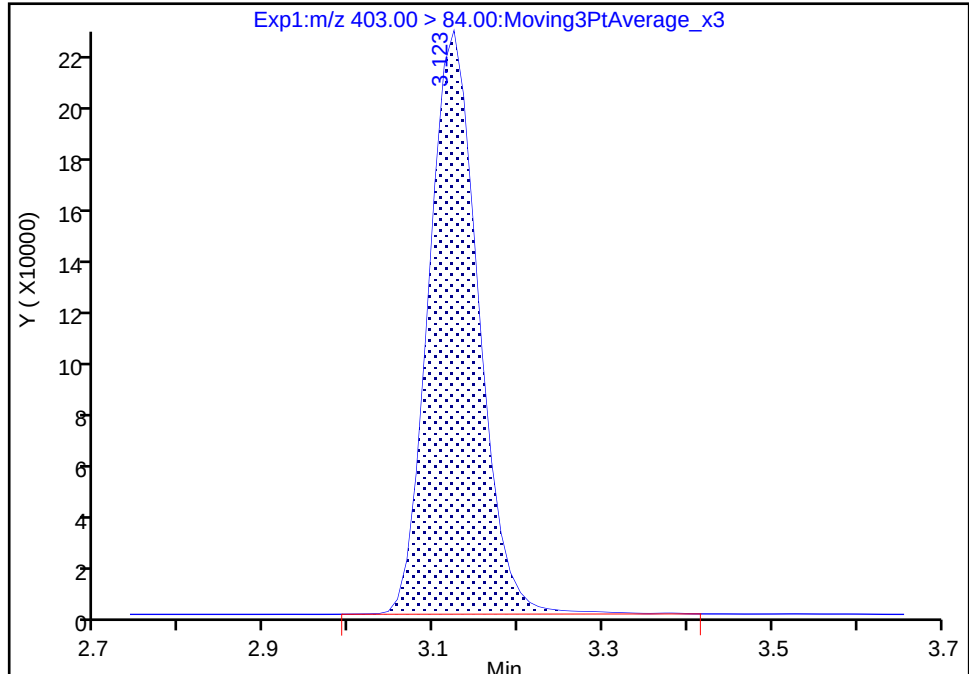
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

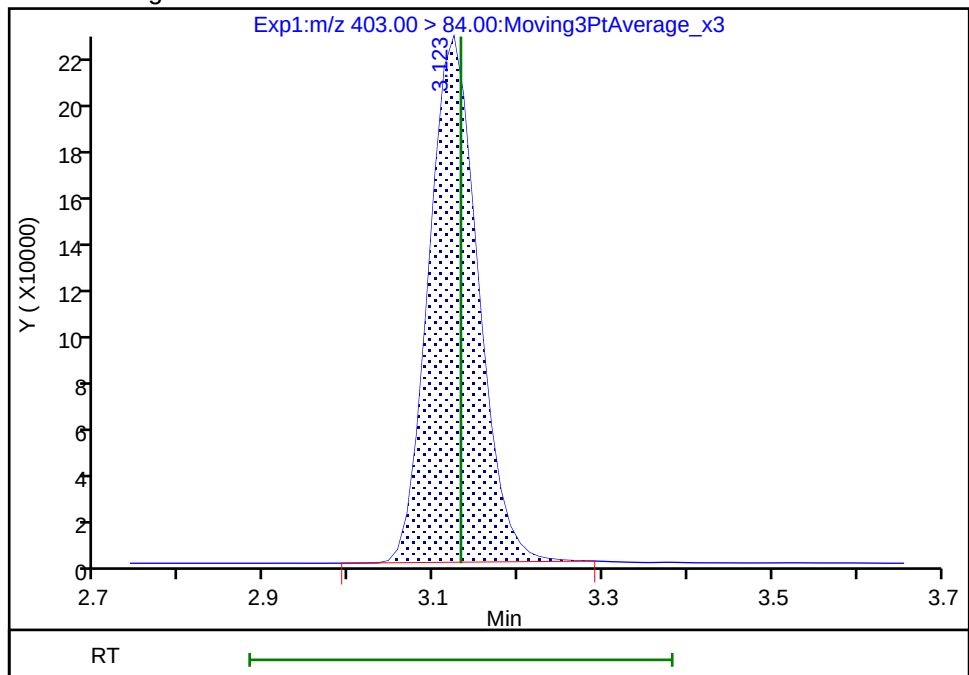
RT: 3.12
Area: 915355
Amount: 1.200673
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 906172
Amount: 1.199179
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 377 of 978

11/21/2022
4:10 PM

Eurofins Burlington

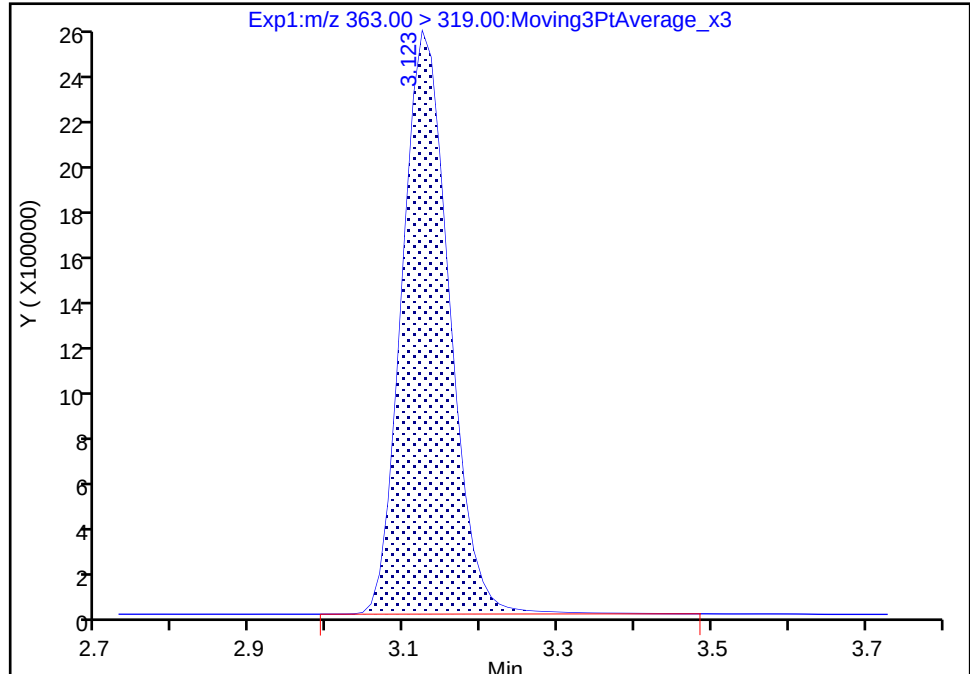
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

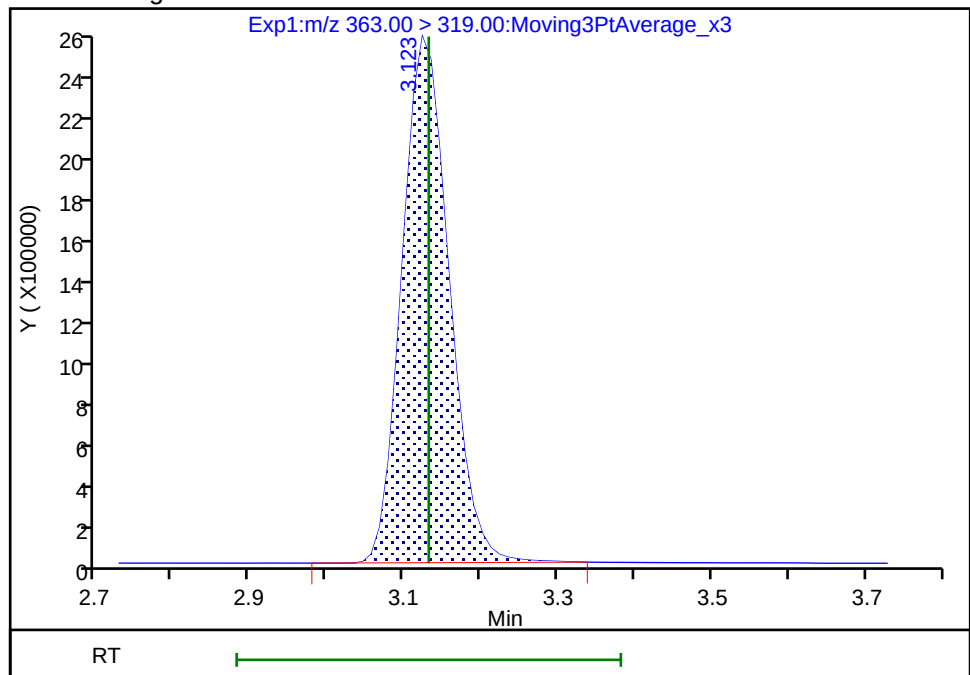
RT: 3.12
Area: 11063645
Amount: 9.265552
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 11014840
Amount: 9.230967
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 378 of 978

11/21/2022
4:10 PM

Eurofins Burlington

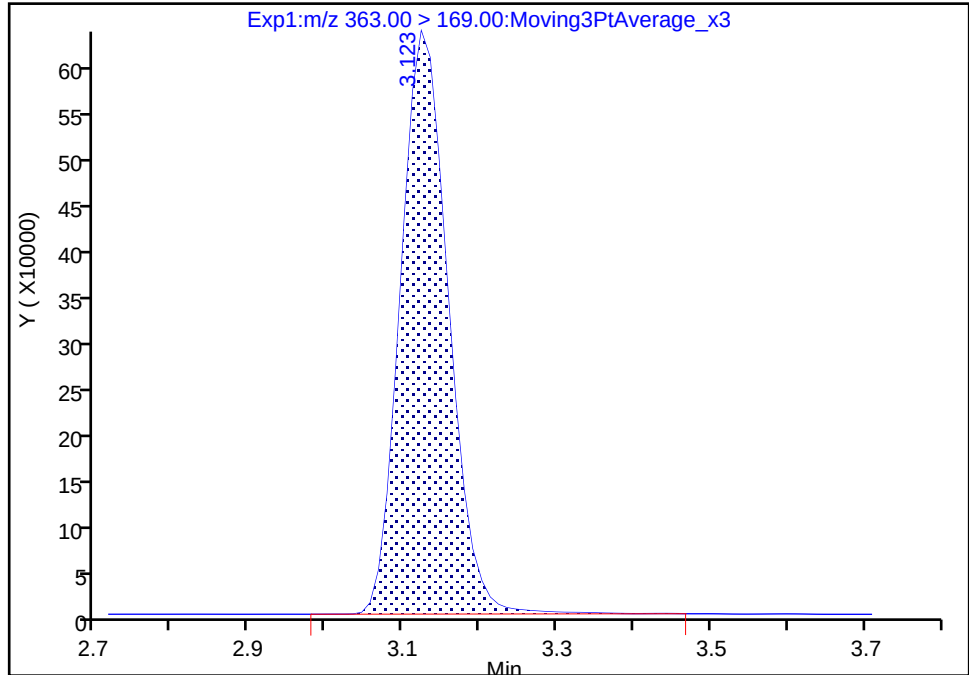
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

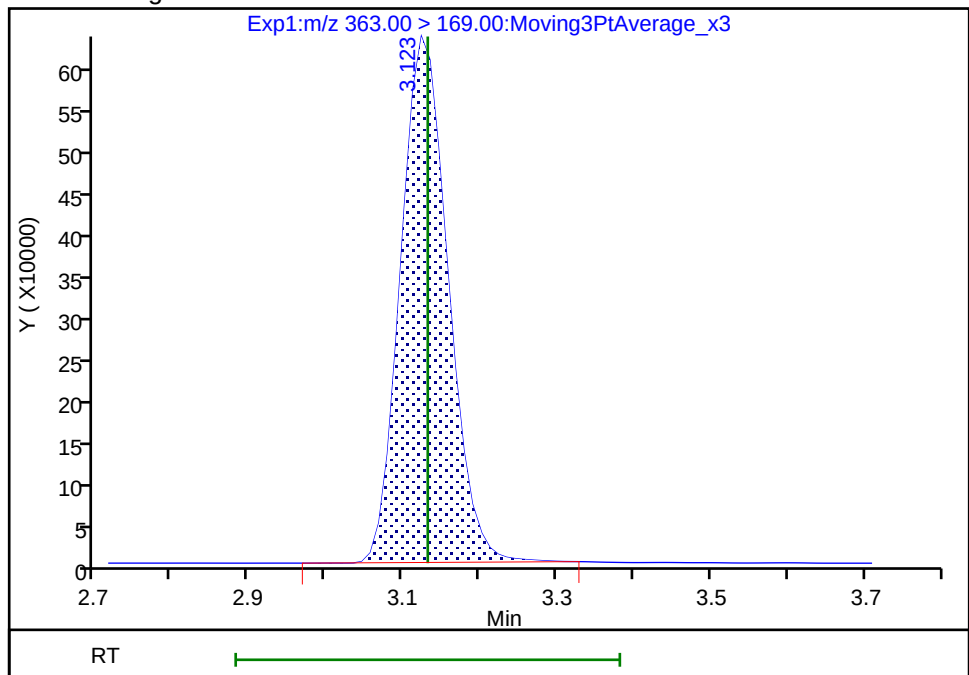
RT: 3.12
Area: 2720474
Amount: 9.265552
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 2701444
Amount: 9.230967
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 379 of 97811/21/2022
4:10 PM

Eurofins Burlington

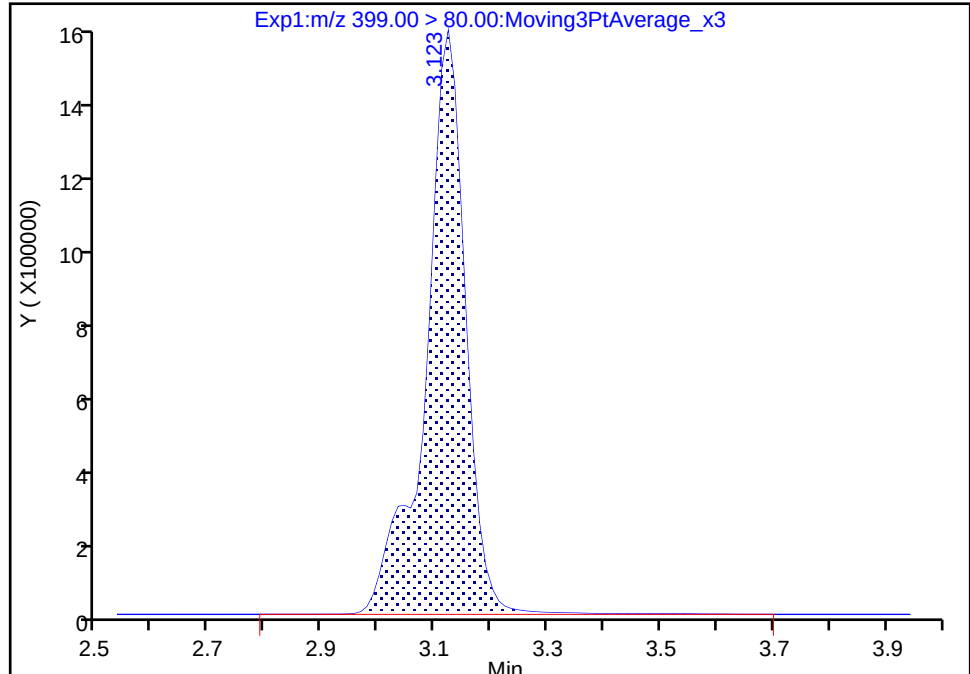
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

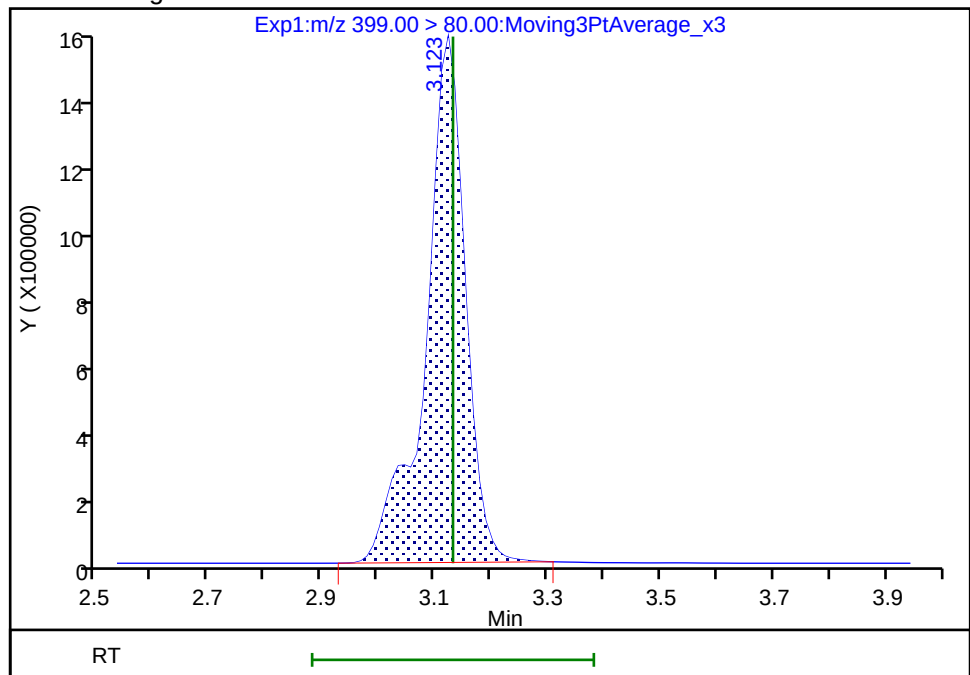
RT: 3.12
Area: 7759290
Amount: 8.689590
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 7676456
Amount: 8.611456
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 380 of 978

11/21/2022
4:10 PM

Eurofins Burlington

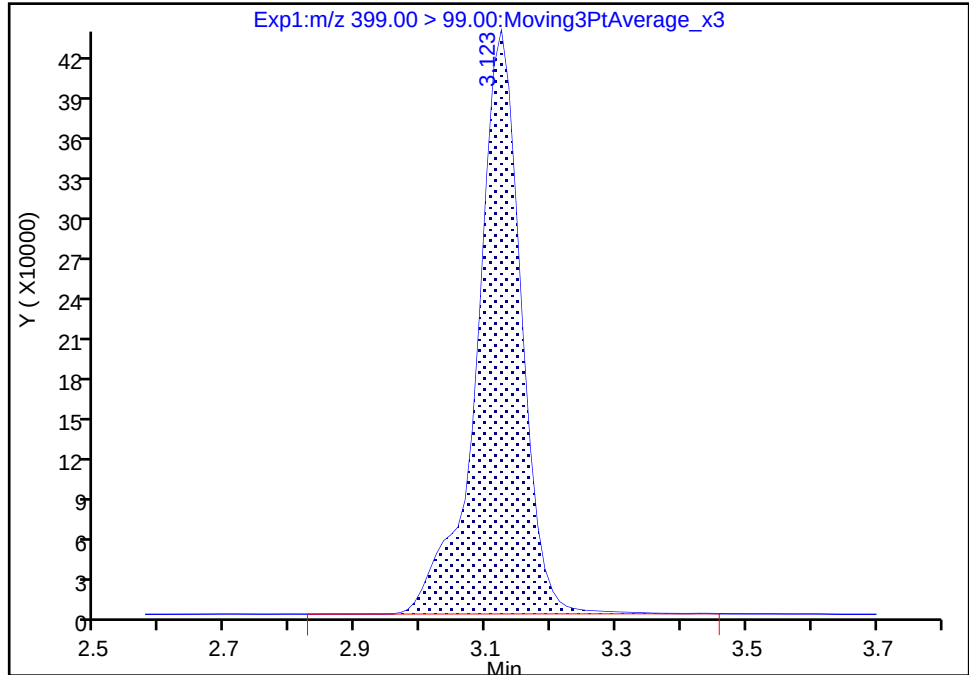
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

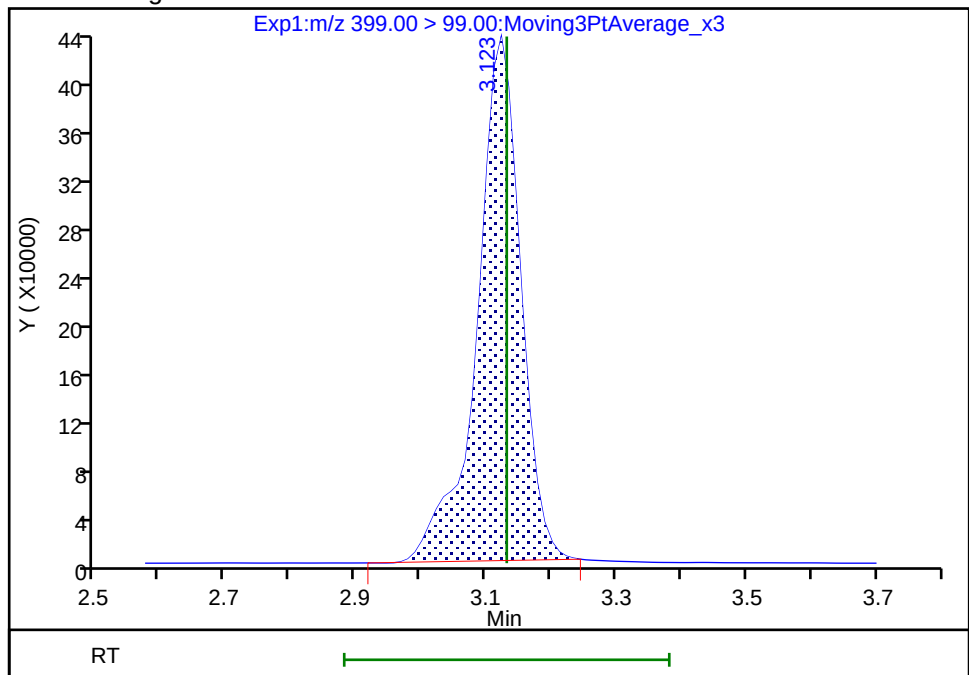
RT: 3.12
Area: 2034704
Amount: 8.689590
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 1995210
Amount: 8.611456
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 381 of 97811/21/2022
4:10 PM

Eurofins Burlington

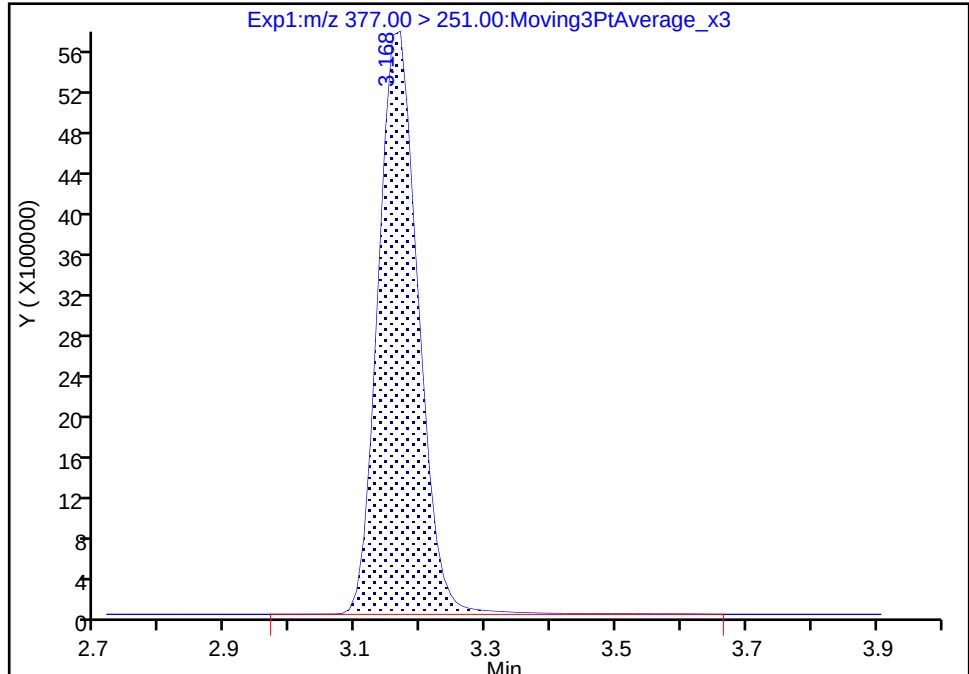
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

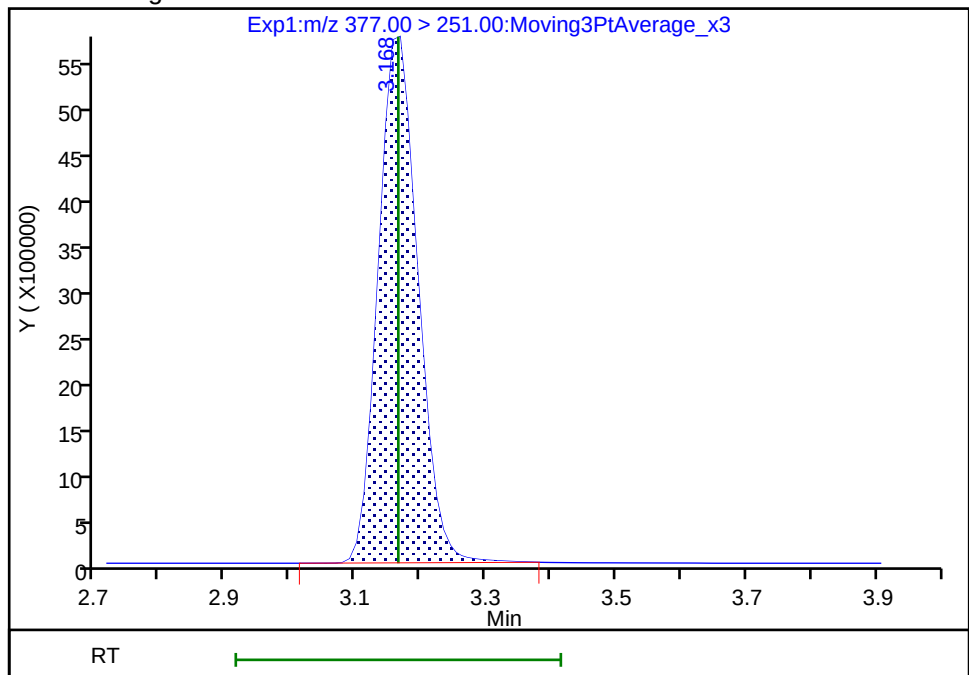
RT: 3.17
Area: 24357178
Amount: 8.757128
Amount Units: ng/ml

Processing Integration Results



RT: 3.17
Area: 24171345
Amount: 8.700600
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 382 of 978

11/21/2022
4:10 PM

Eurofins Burlington

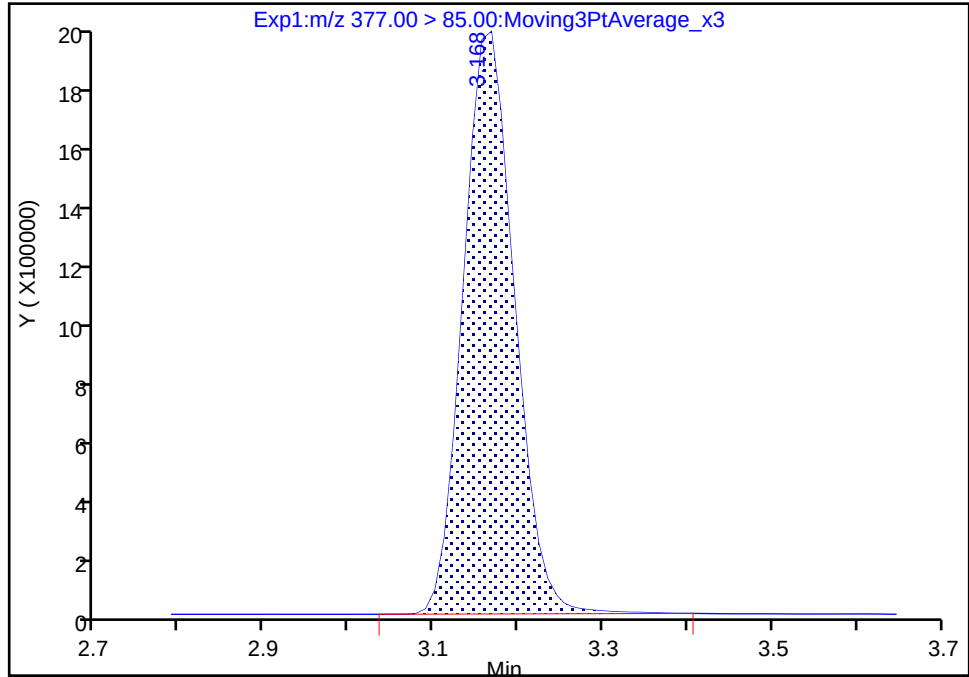
Data File:	\\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d		
Injection Date:	14-Sep-2022 11:14:32	Instrument ID:	LC812
Lims ID:	IC		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	10

77 DONA, CAS: 919005-14-4

Signal: 2

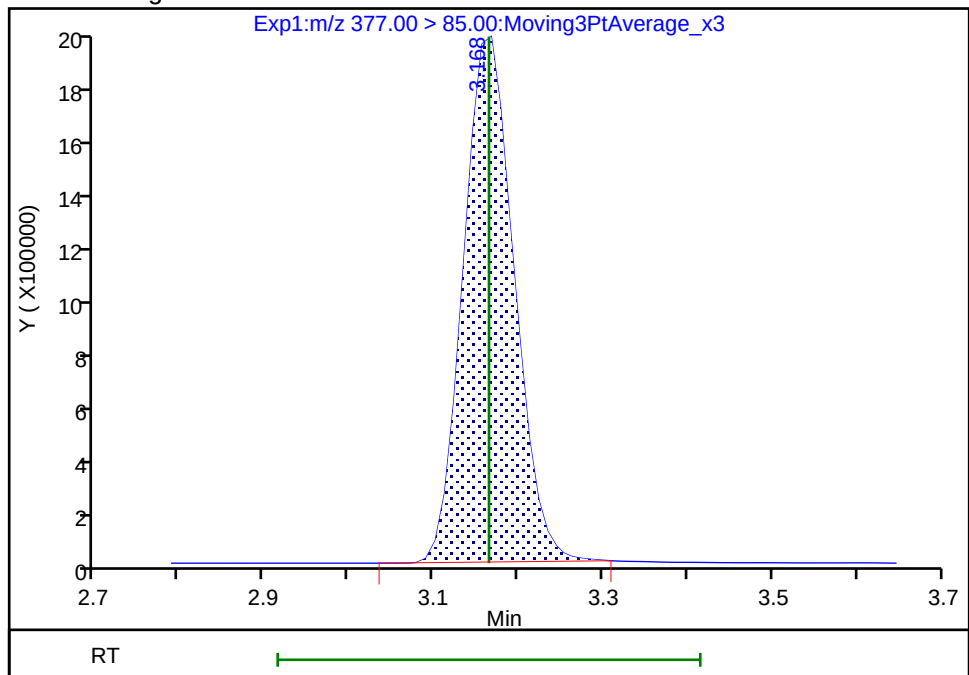
RT: 3.17
Area: 8174385
Amount: 8.757128
Amount Units: ng/ml

Processing Integration Results



RT: 3.17
Area: 8103191
Amount: 8.700600
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 383 of 97811/21/2022
4:10 PM

Eurofins Burlington

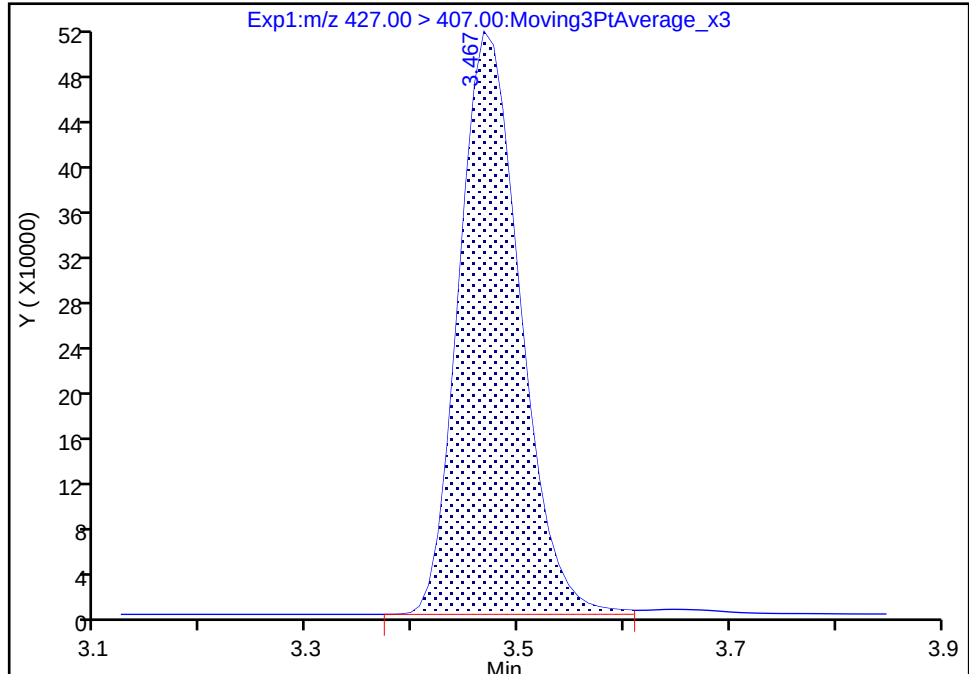
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

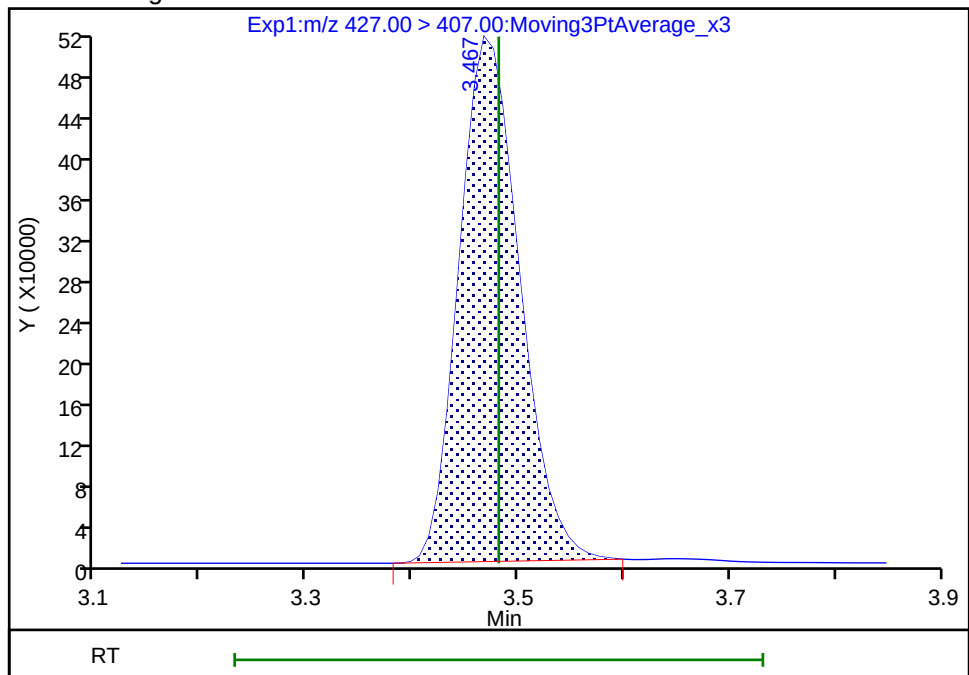
RT: 3.47
Area: 2069363
Amount: 9.384494
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 2041604
Amount: 8.906668
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 384 of 978

11/21/2022
4:10 PM

Eurofins Burlington

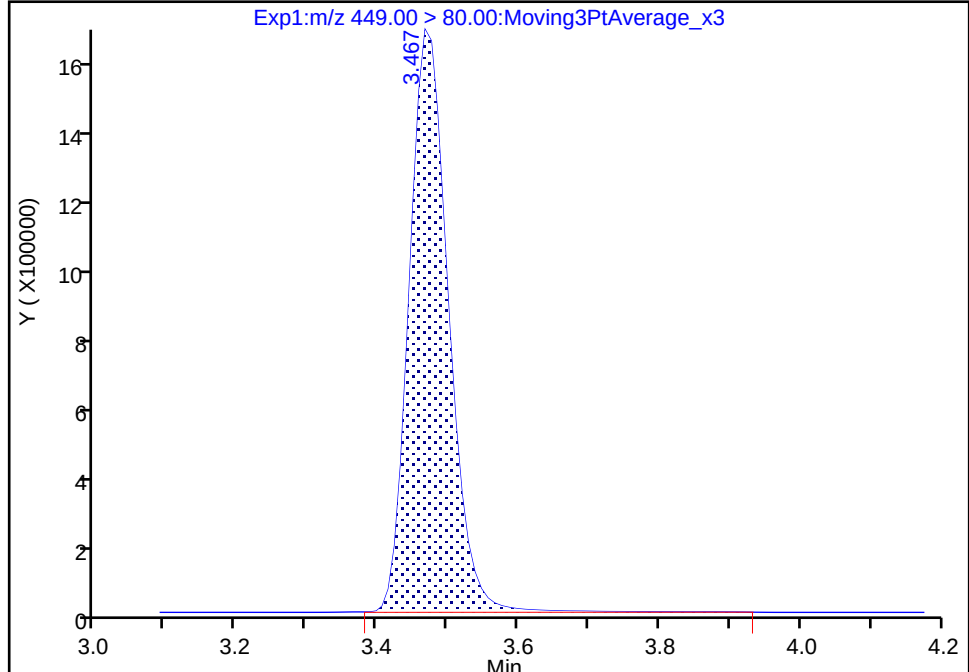
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

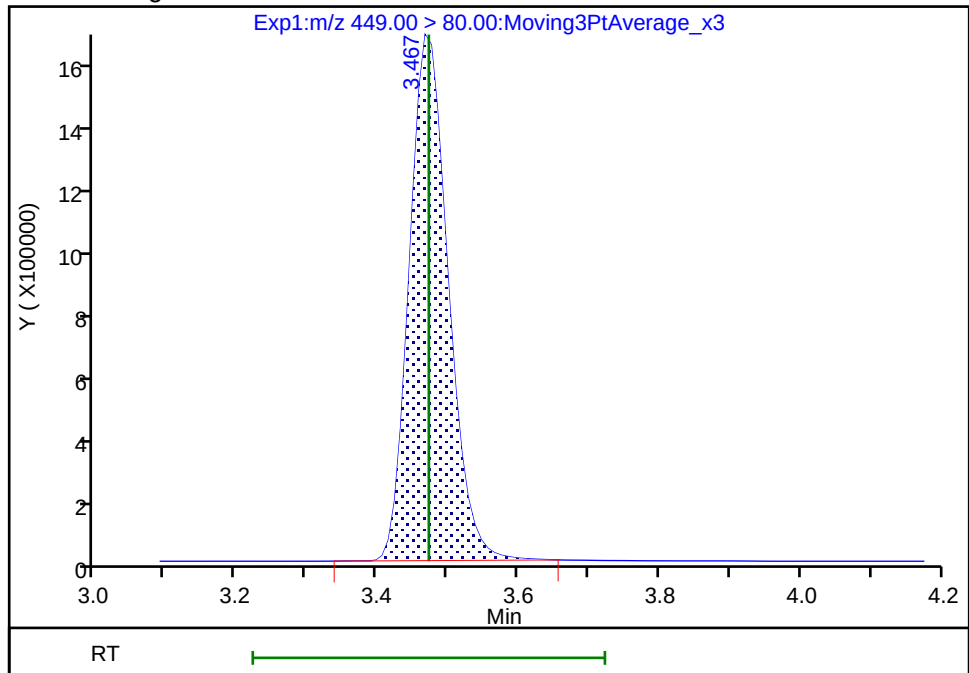
RT: 3.47
Area: 6248756
Amount: 8.860606
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 6189936
Amount: 8.790035
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 385 of 978

11/21/2022
4:10 PM

Eurofins Burlington

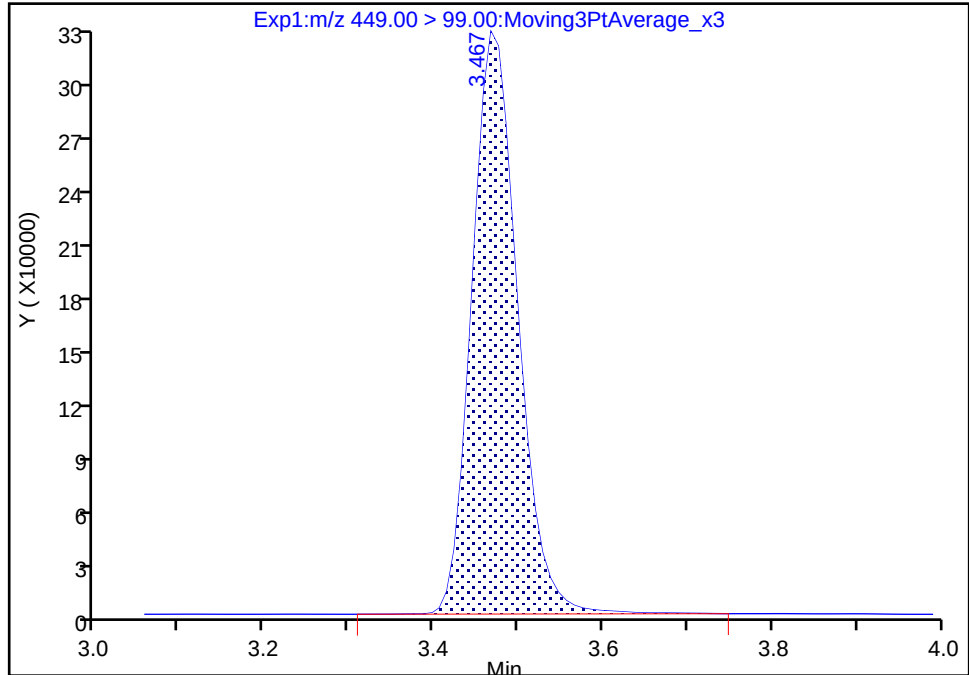
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

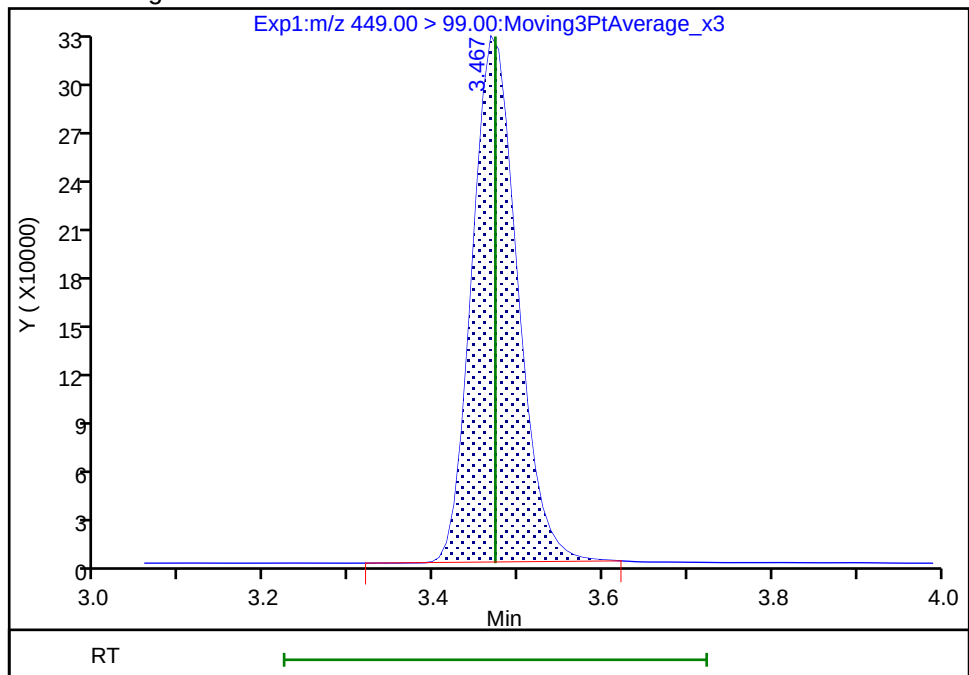
RT: 3.47
Area: 1200564
Amount: 8.860606
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 1186907
Amount: 8.790035
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:28:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 386 of 97811/21/2022
4:10 PM

Eurofins Burlington

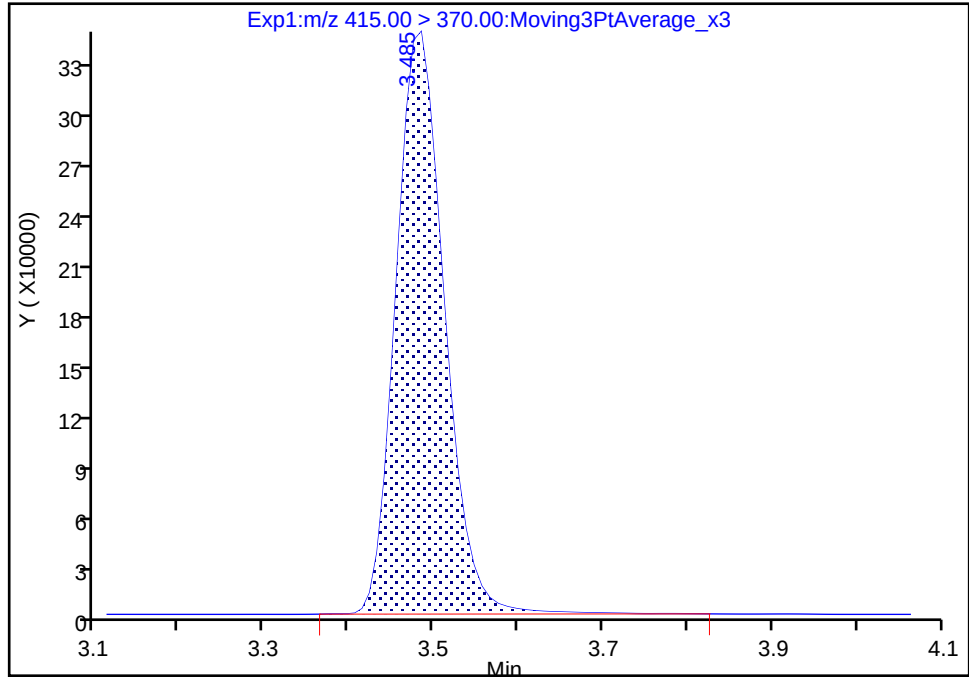
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

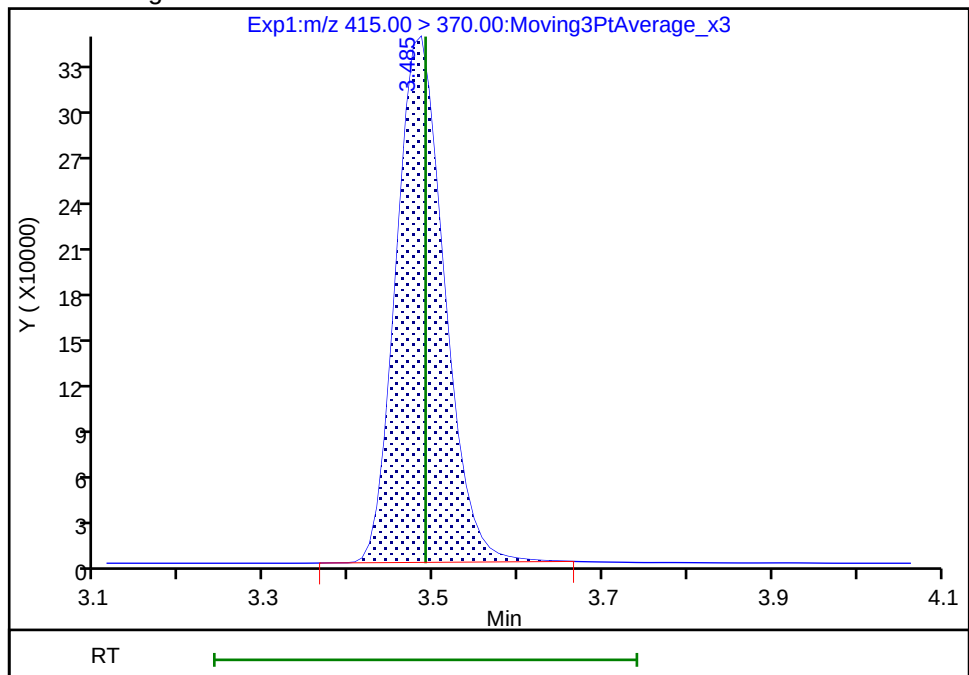
RT: 3.48
Area: 1372485
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 1360753
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 387 of 978

11/21/2022
4:10 PM

Eurofins Burlington

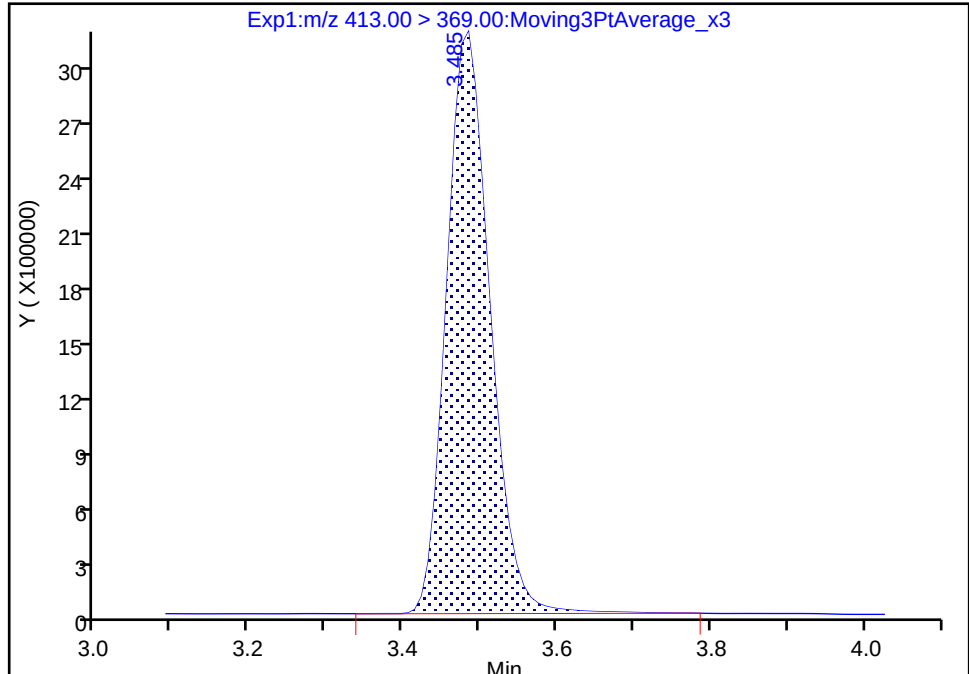
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

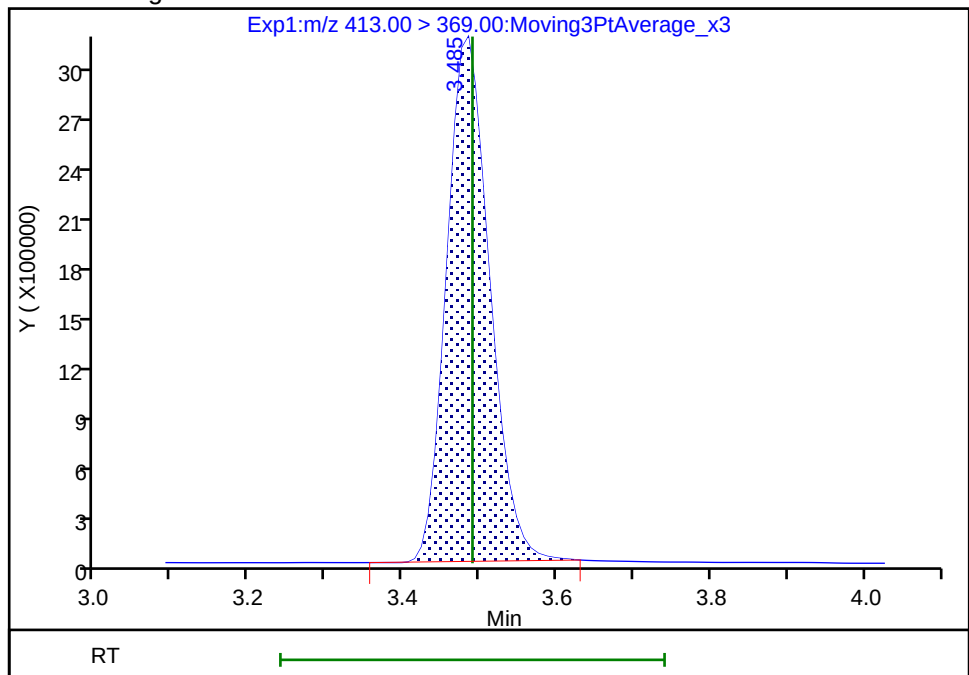
RT: 3.48
Area: 12129327
Amount: 9.946524
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 11962019
Amount: 9.831807
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 388 of 978

11/21/2022
4:10 PM

Eurofins Burlington

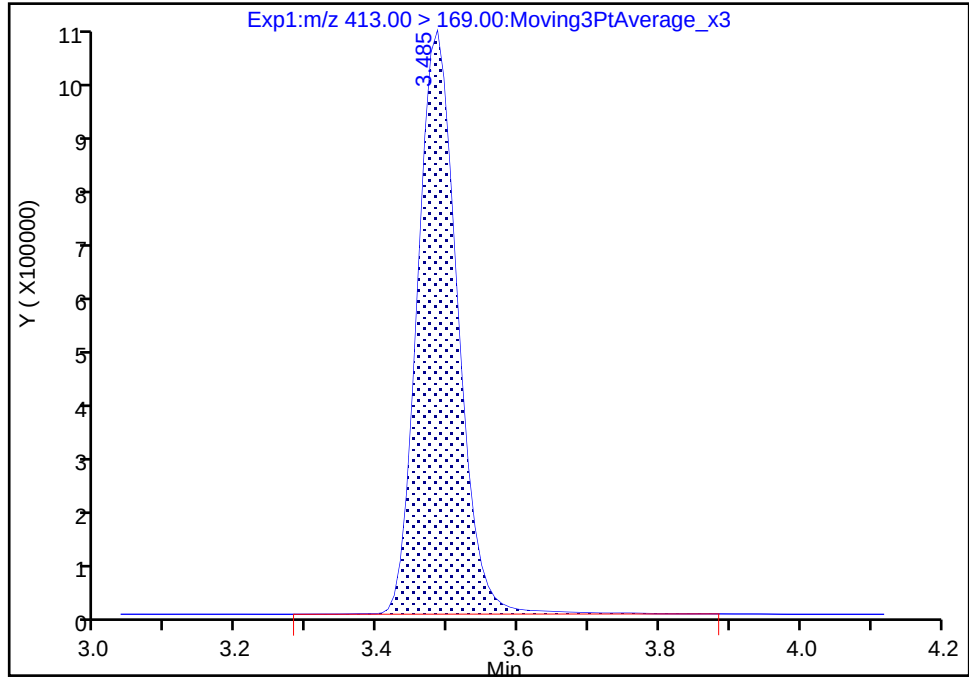
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

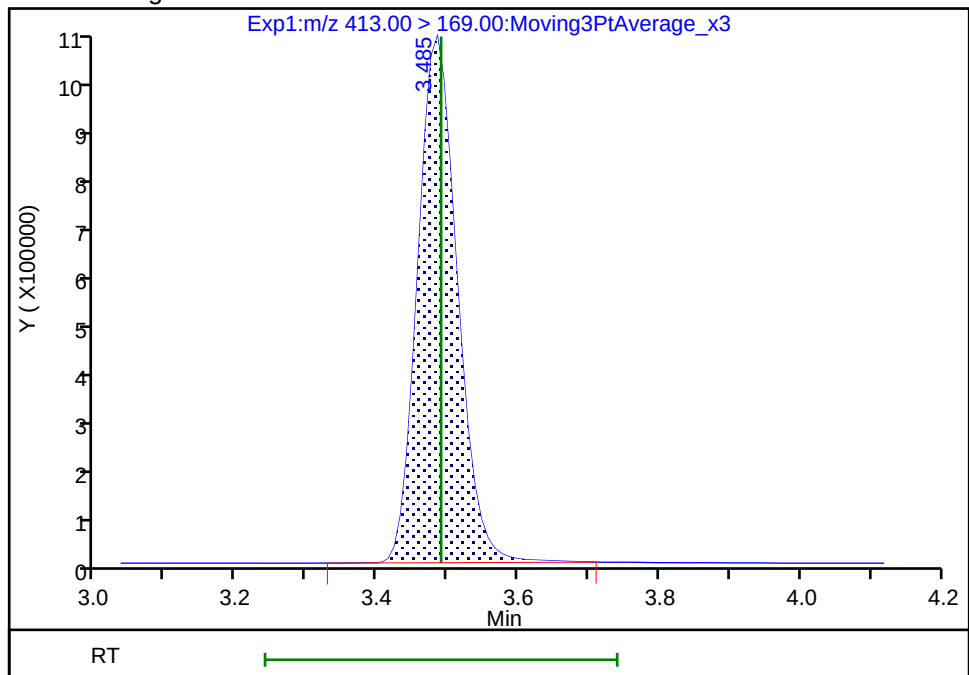
RT: 3.48
Area: 4194958
Amount: 9.946524
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 4169580
Amount: 9.831807
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 389 of 97811/21/2022
4:10 PM

Eurofins Burlington

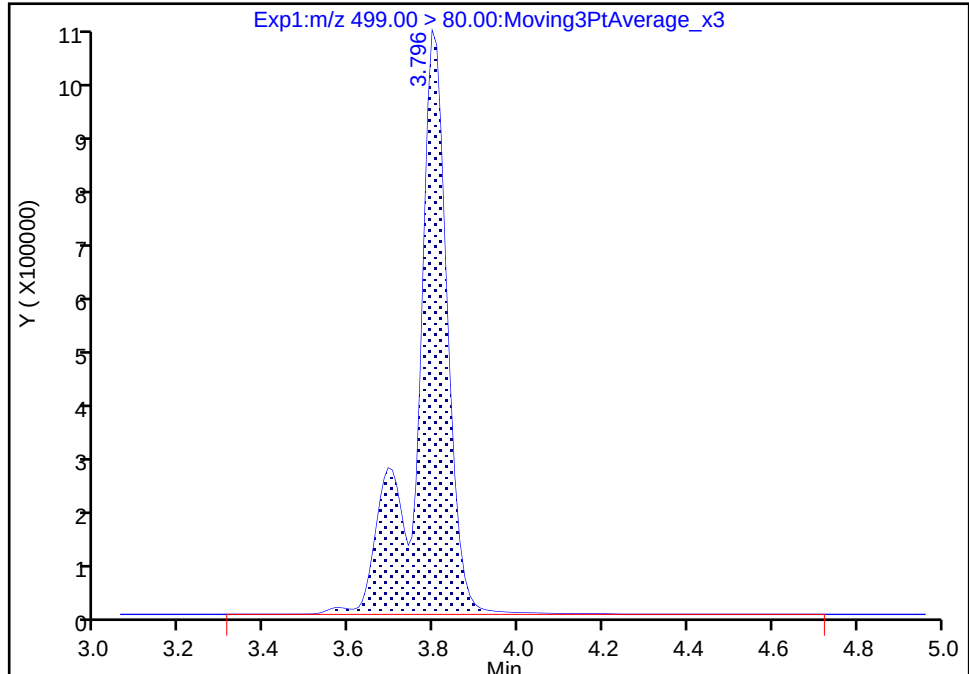
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

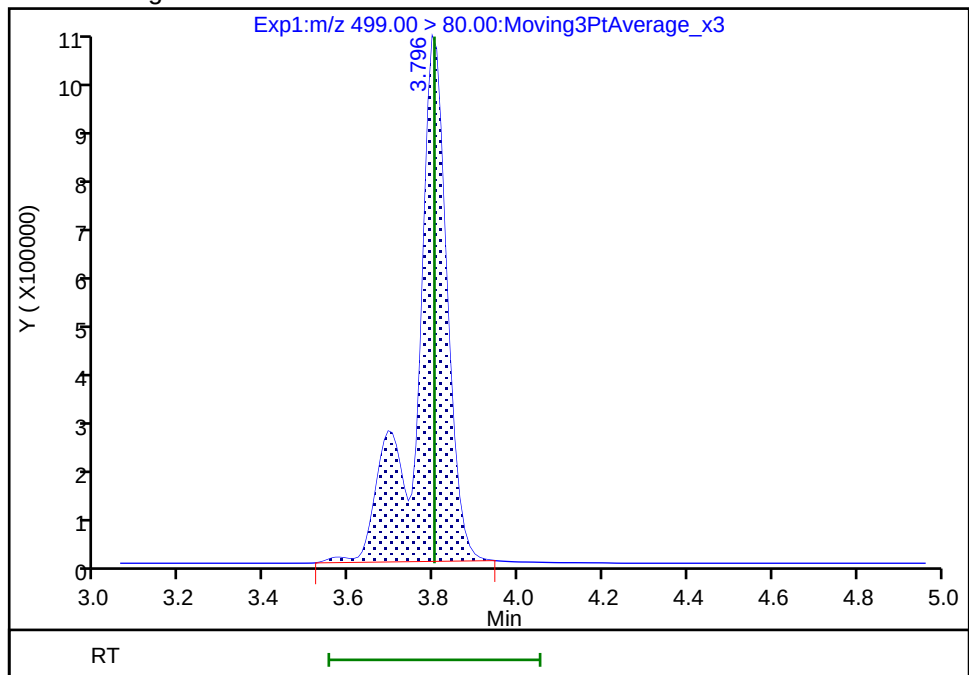
RT: 3.80
Area: 5276801
Amount: 9.300197
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 5172308
Amount: 8.517813
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 390 of 978

11/21/2022
4:10 PM

Eurofins Burlington

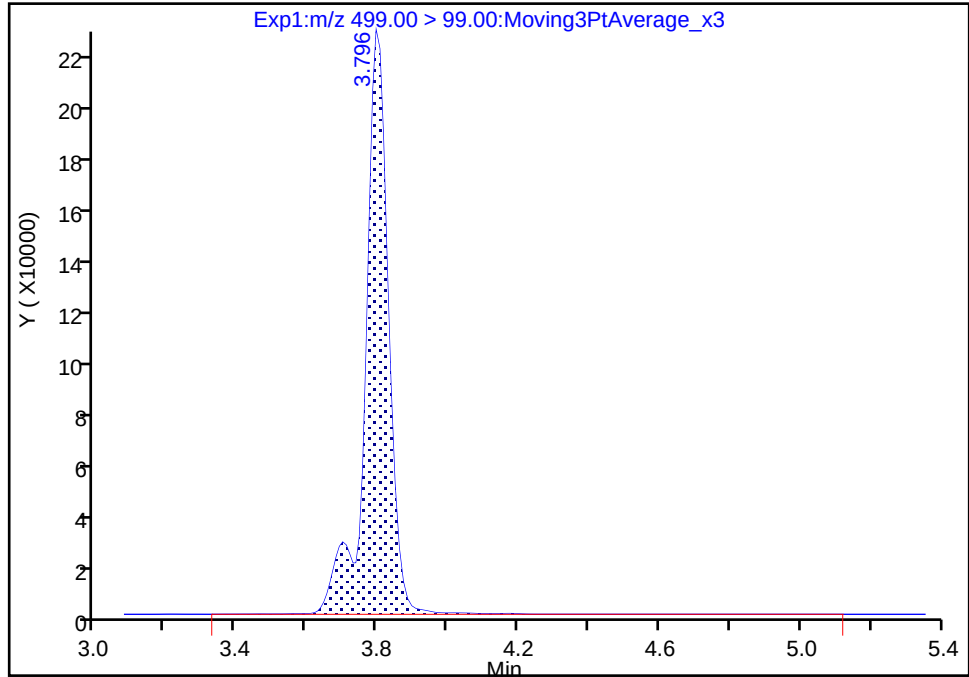
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

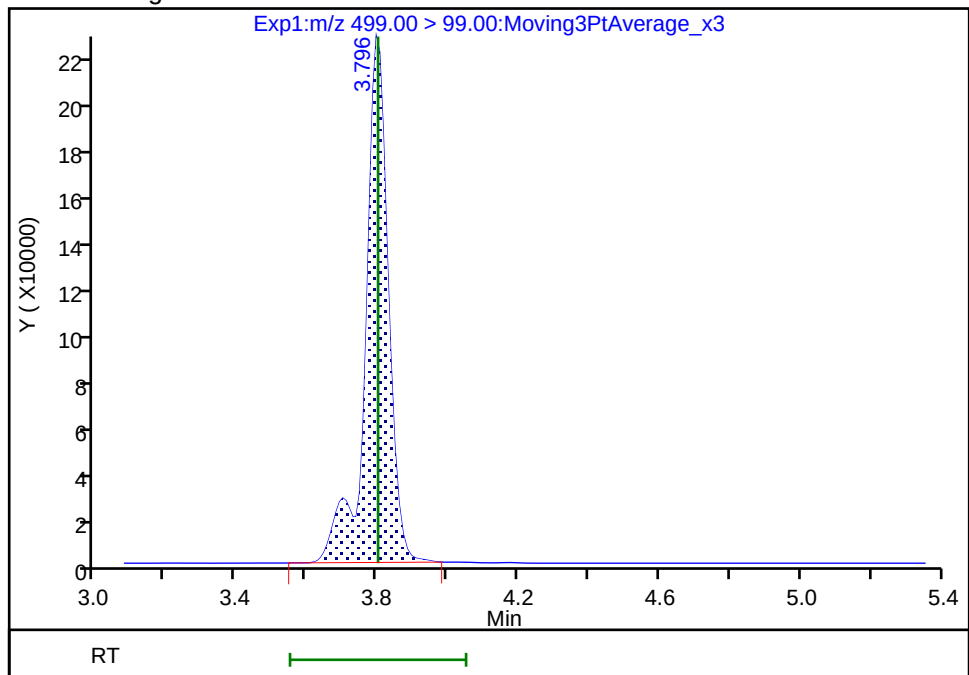
RT: 3.80
Area: 1048104
Amount: 9.300197
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 1035802
Amount: 8.517813
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 391 of 97811/21/2022
4:10 PM

Eurofins Burlington

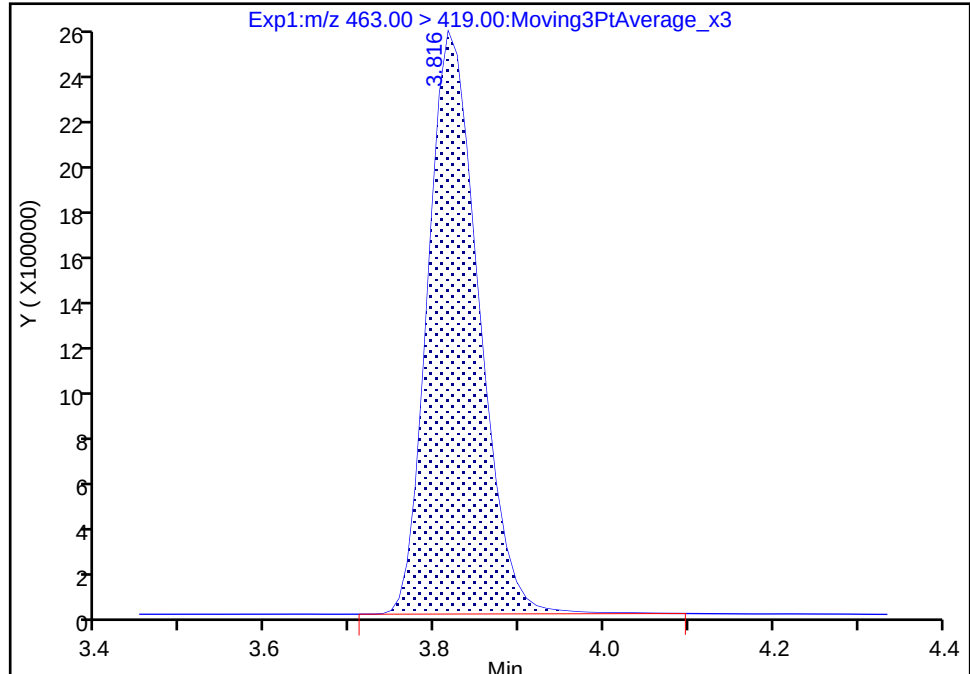
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

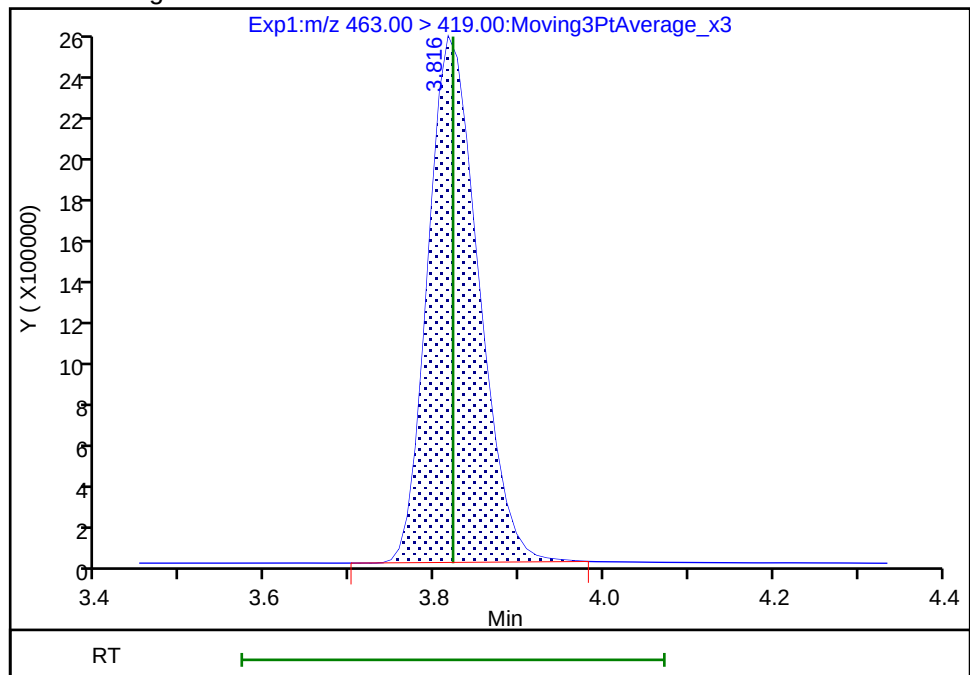
RT: 3.82
Area: 10664920
Amount: 9.087961
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 10598556
Amount: 9.039930
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 392 of 978

11/21/2022
4:10 PM

Eurofins Burlington

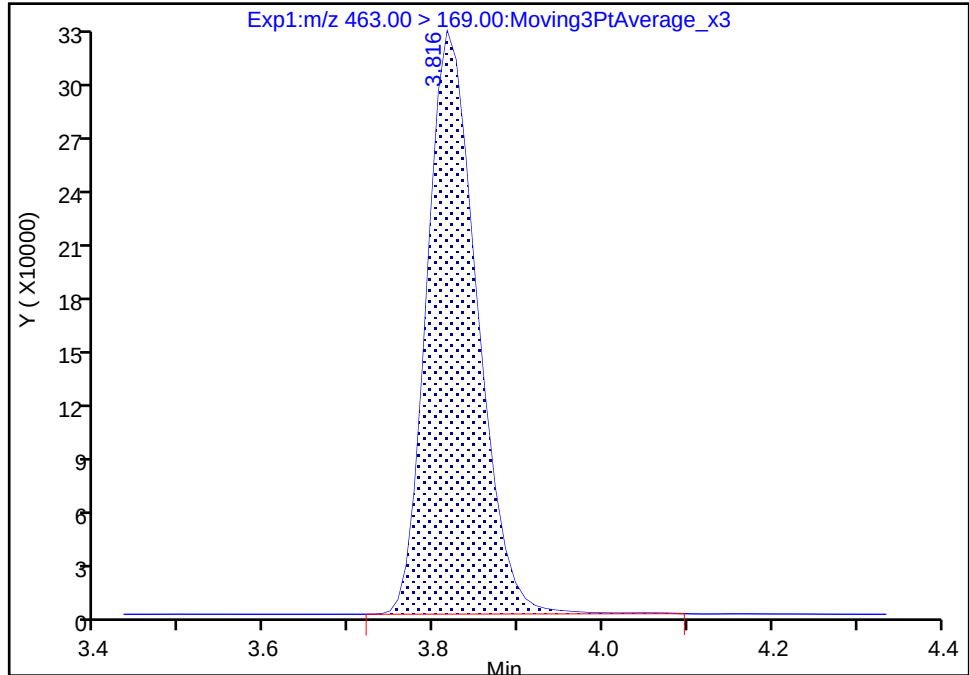
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

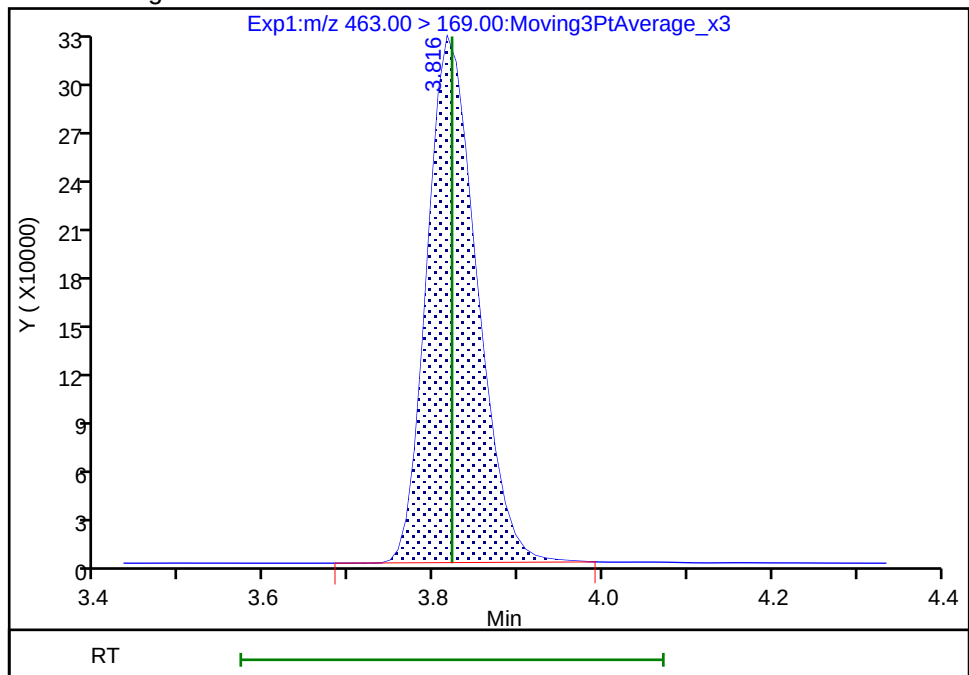
RT: 3.82
Area: 1318093
Amount: 9.087961
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 1310995
Amount: 9.039930
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 393 of 97811/21/2022
4:10 PM

Eurofins Burlington

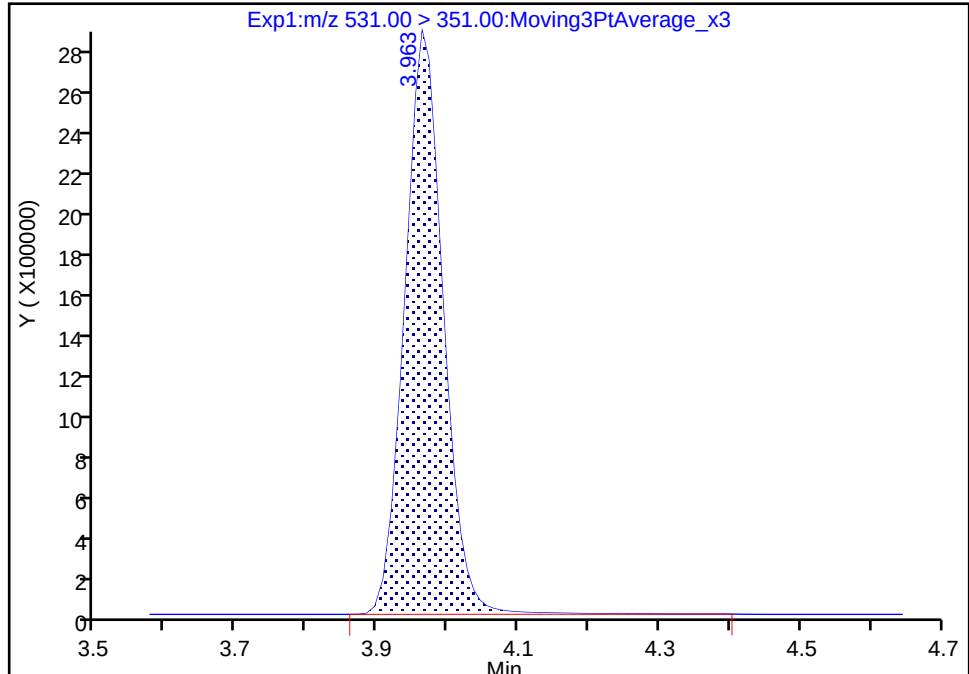
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

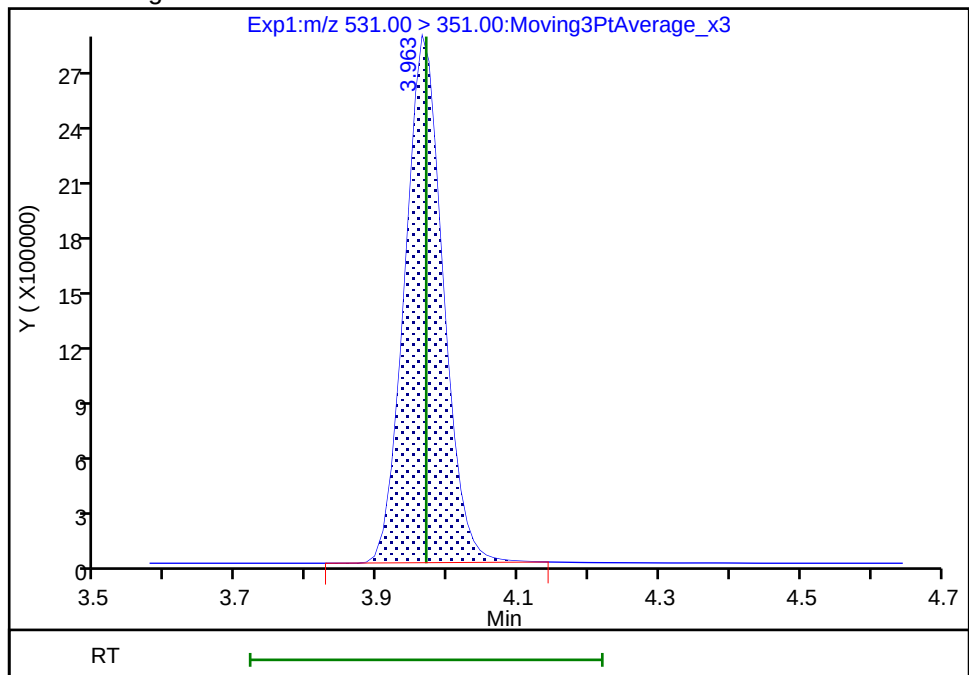
RT: 3.96
Area: 10830566
Amount: 8.877920
Amount Units: ng/ml

Processing Integration Results



RT: 3.96
Area: 10742319
Amount: 8.816988
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 394 of 978

11/21/2022
4:10 PM

Eurofins Burlington

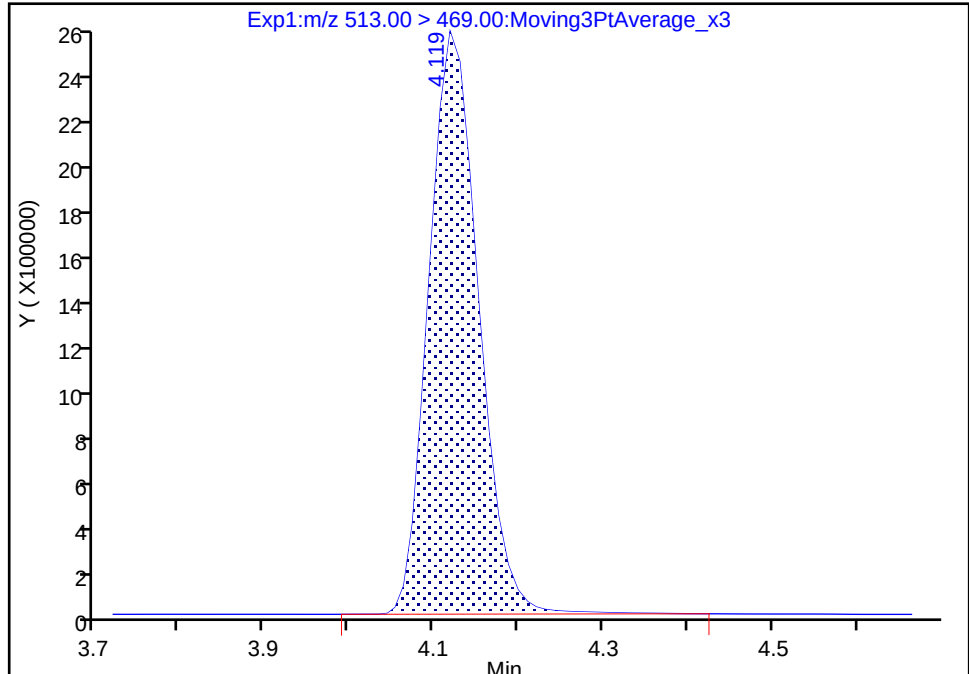
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

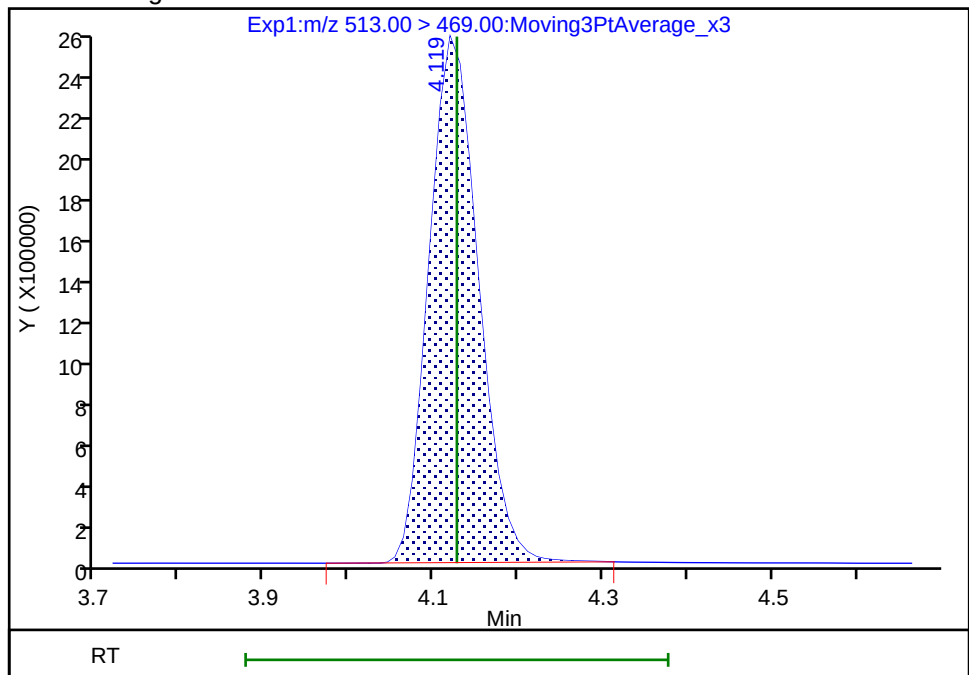
RT: 4.12
Area: 10480117
Amount: 9.514731
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 10417771
Amount: 9.467059
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 395 of 978

11/21/2022
4:10 PM

Eurofins Burlington

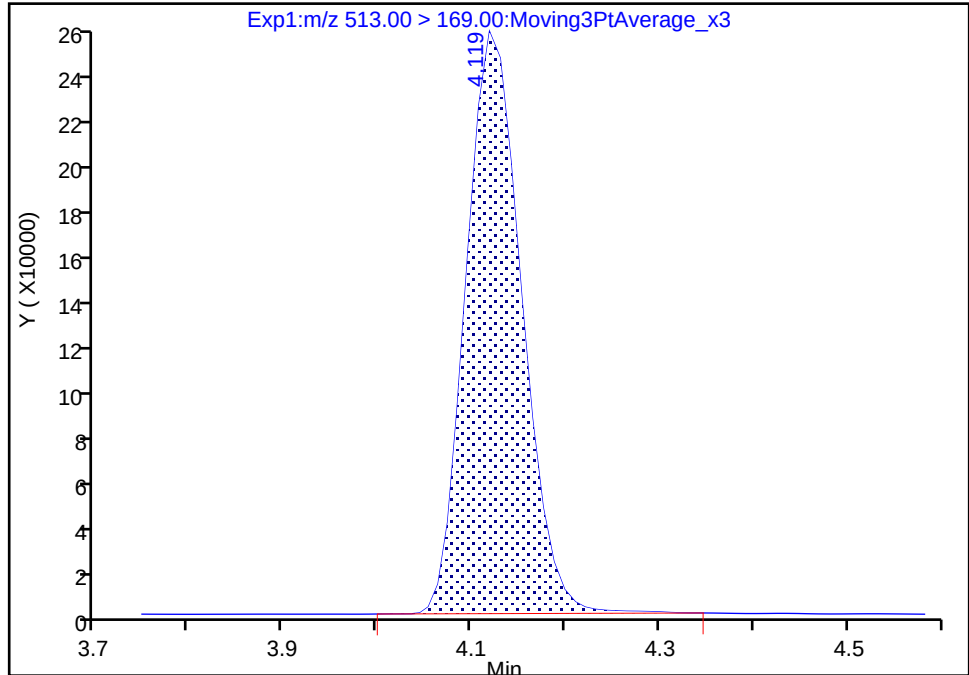
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

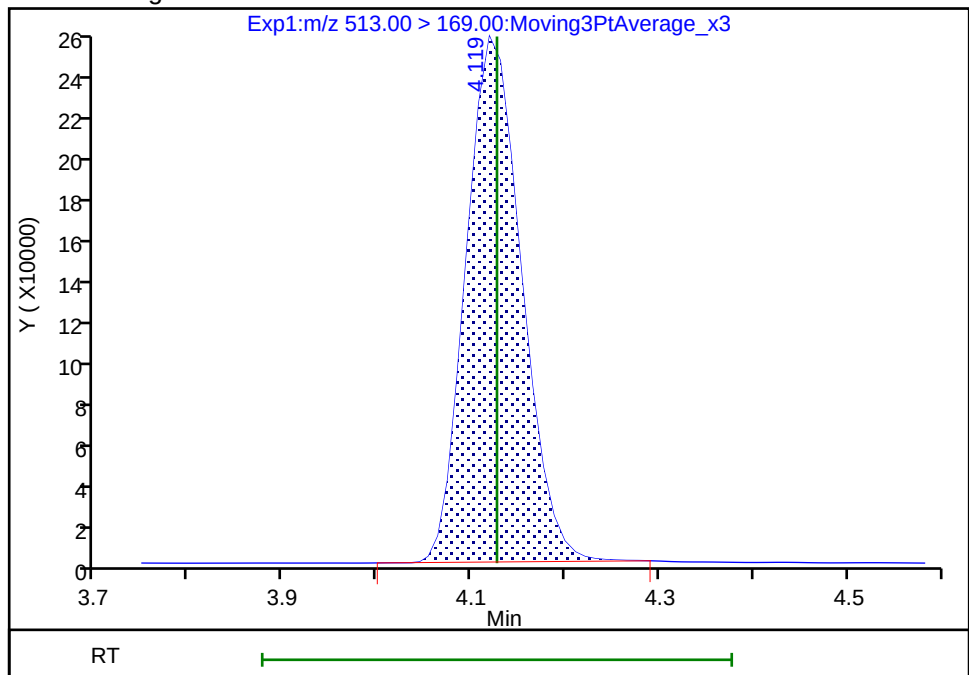
RT: 4.12
Area: 1067849
Amount: 9.514731
Amount Units: ng/ml

Processing Integration Results



RT: 4.12
Area: 1061209
Amount: 9.467059
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 396 of 97811/21/2022
4:10 PM

Eurofins Burlington

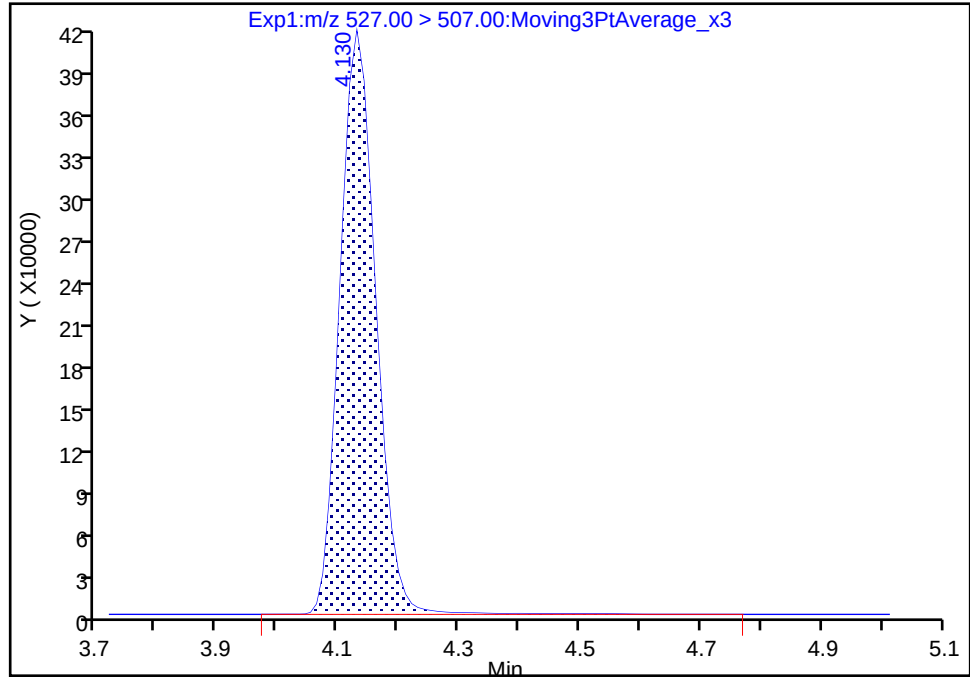
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

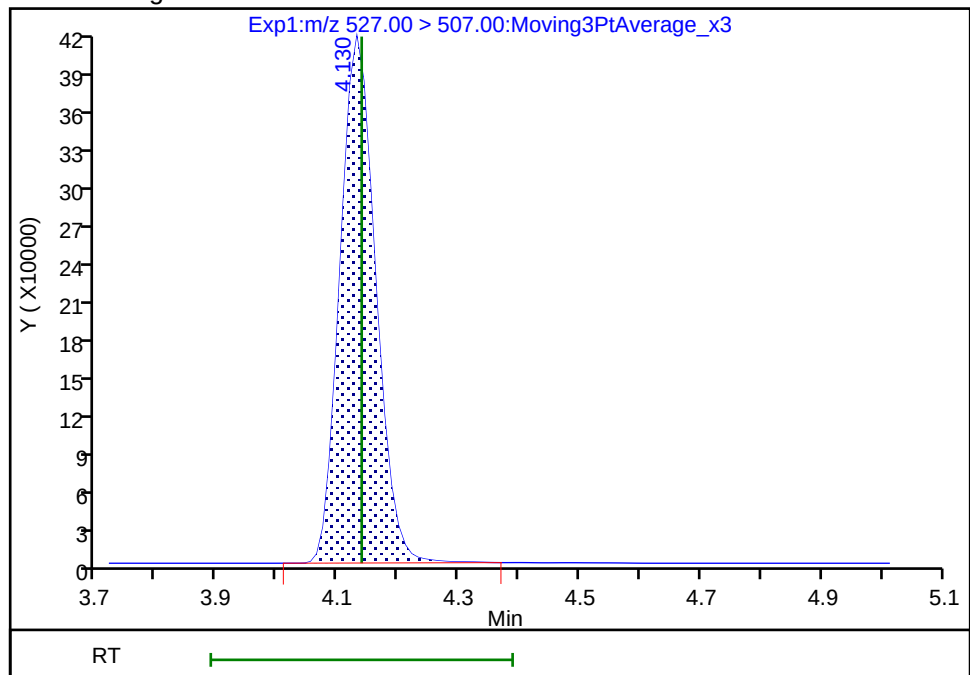
RT: 4.13
Area: 1700687
Amount: 8.844083
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 1690279
Amount: 8.798243
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:29:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 397 of 978

11/21/2022
4:10 PM

Eurofins Burlington

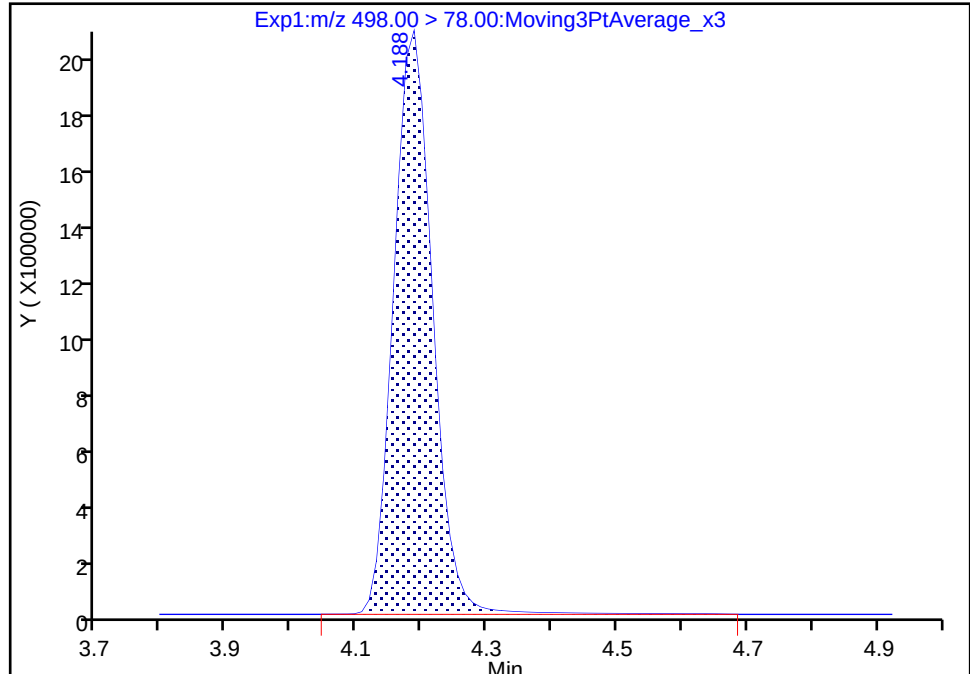
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

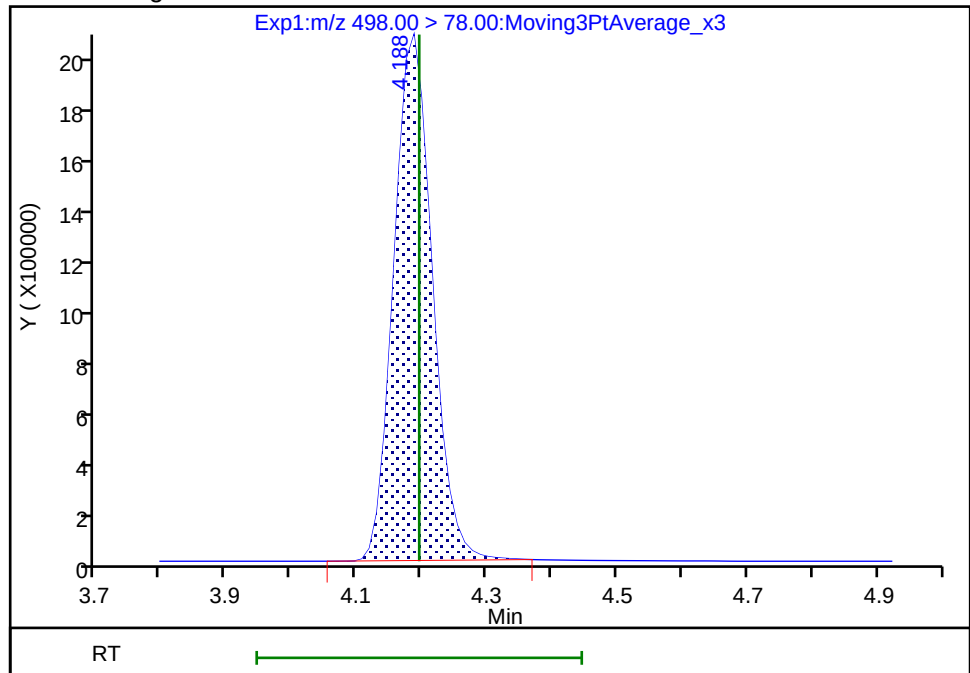
RT: 4.19
Area: 8627928
Amount: 9.684888
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 8517155
Amount: 9.580399
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 398 of 978

11/21/2022
4:10 PM

Eurofins Burlington

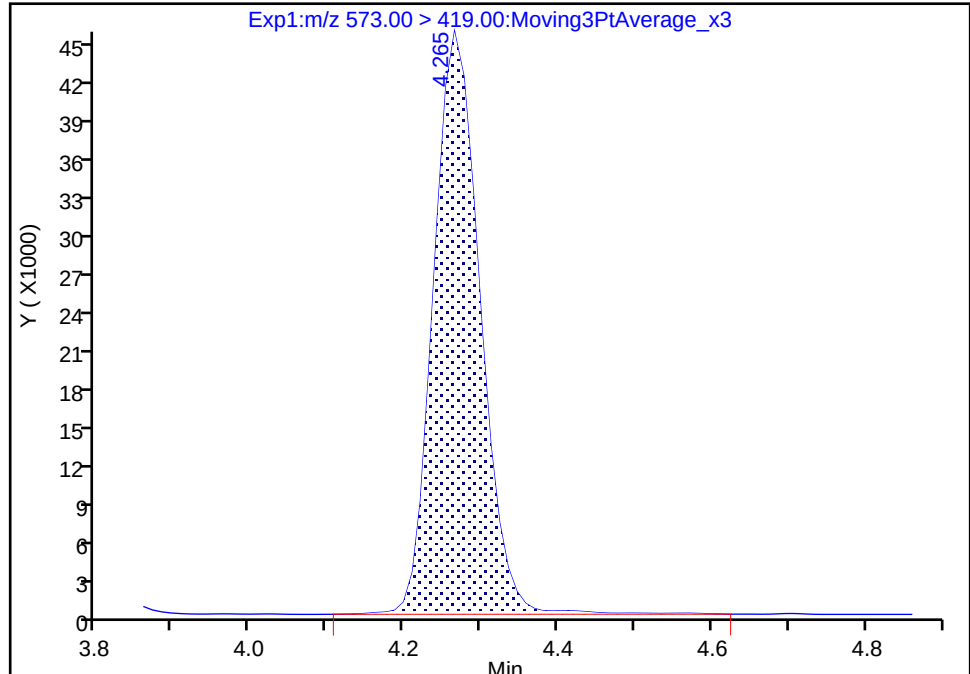
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

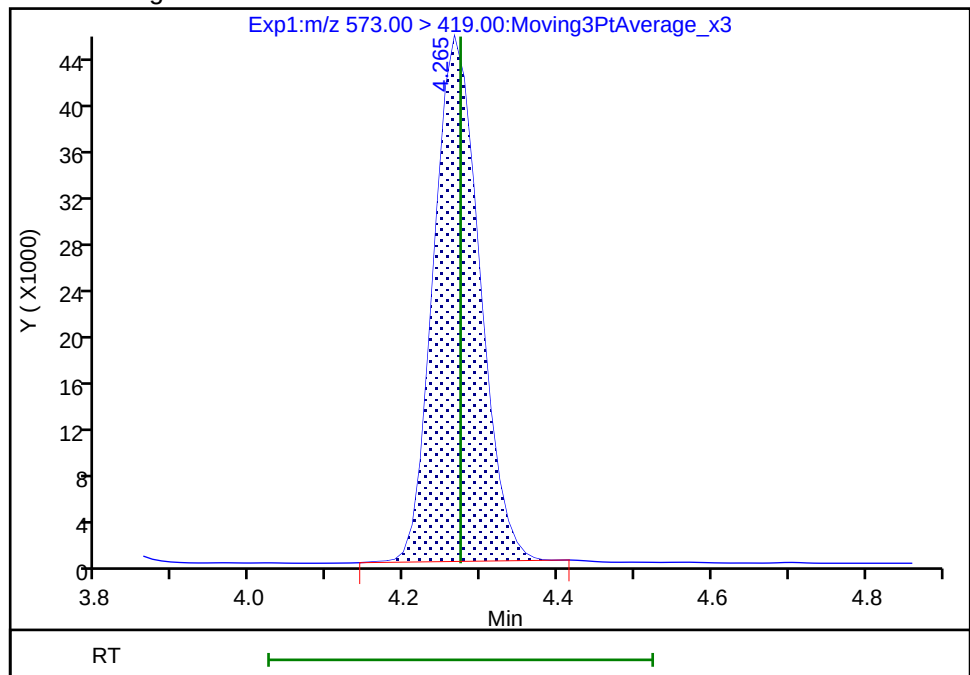
RT: 4.27
Area: 192228
Amount: 1.275392
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 188601
Amount: 1.255355
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 399 of 978

11/21/2022
4:10 PM

Eurofins Burlington

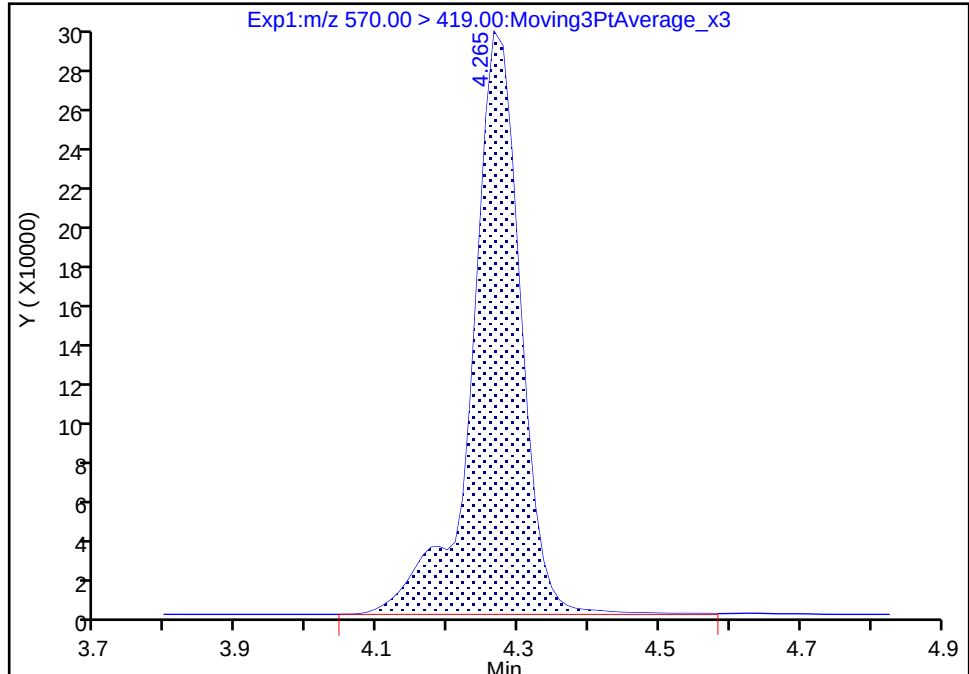
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

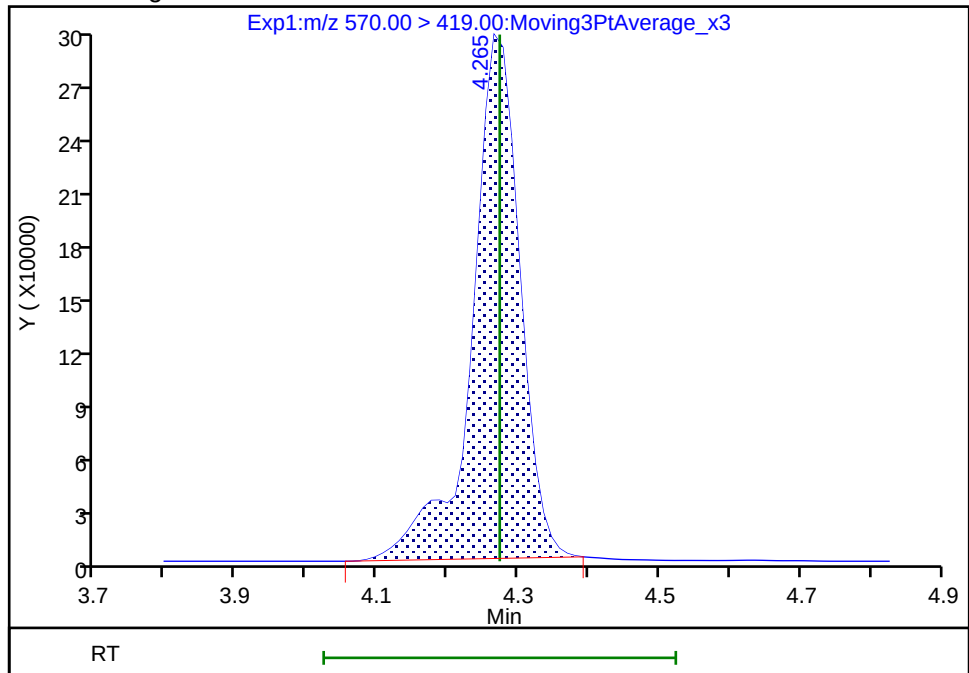
RT: 4.27
Area: 1413171
Amount: 10.085327
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 1377949
Amount: 9.875332
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:11
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 400 of 978

11/21/2022
4:10 PM

Eurofins Burlington

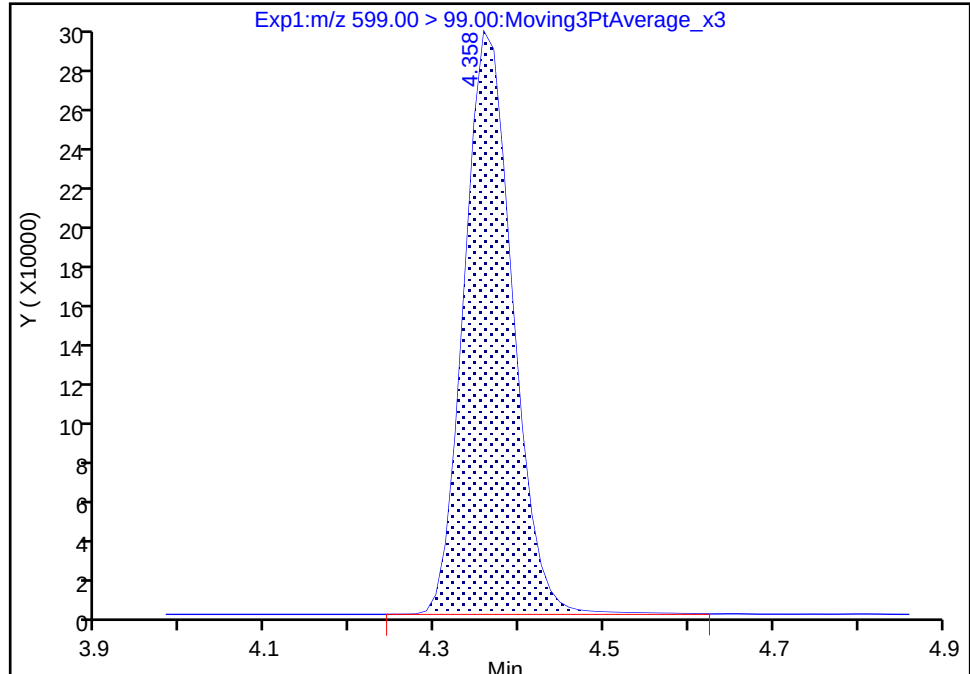
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

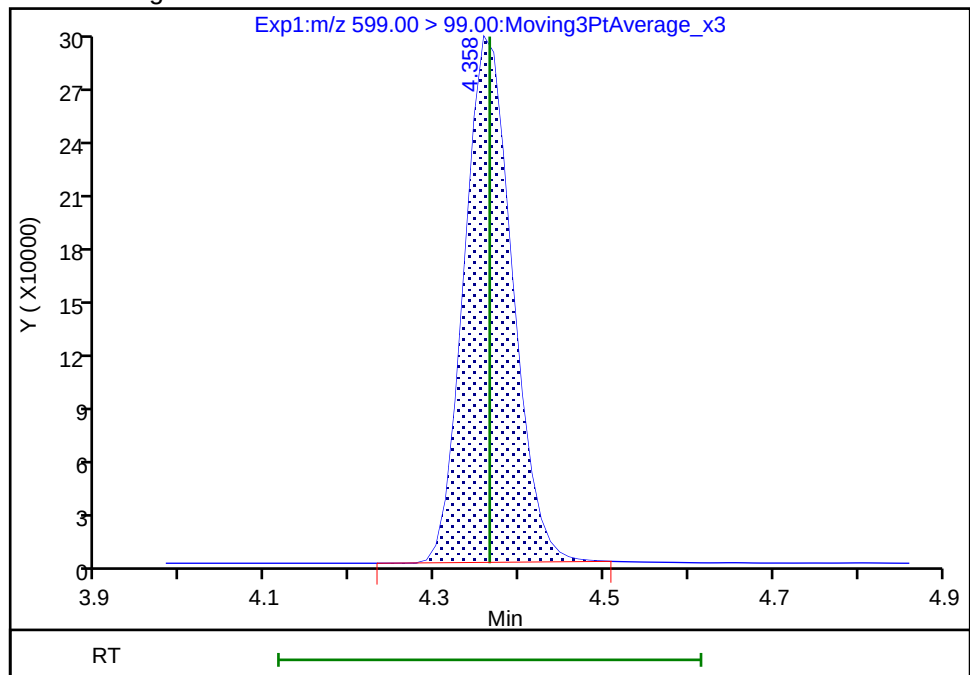
RT: 4.36
Area: 1162973
Amount: 8.887138
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 1150415
Amount: 8.887138
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 401 of 978

11/21/2022
4:10 PM

Eurofins Burlington

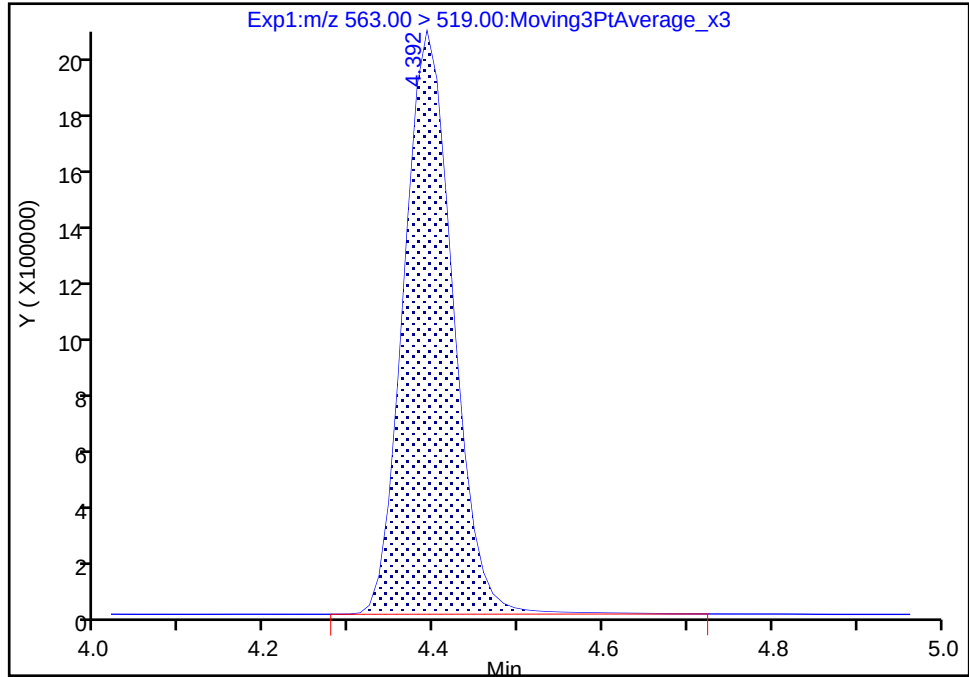
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

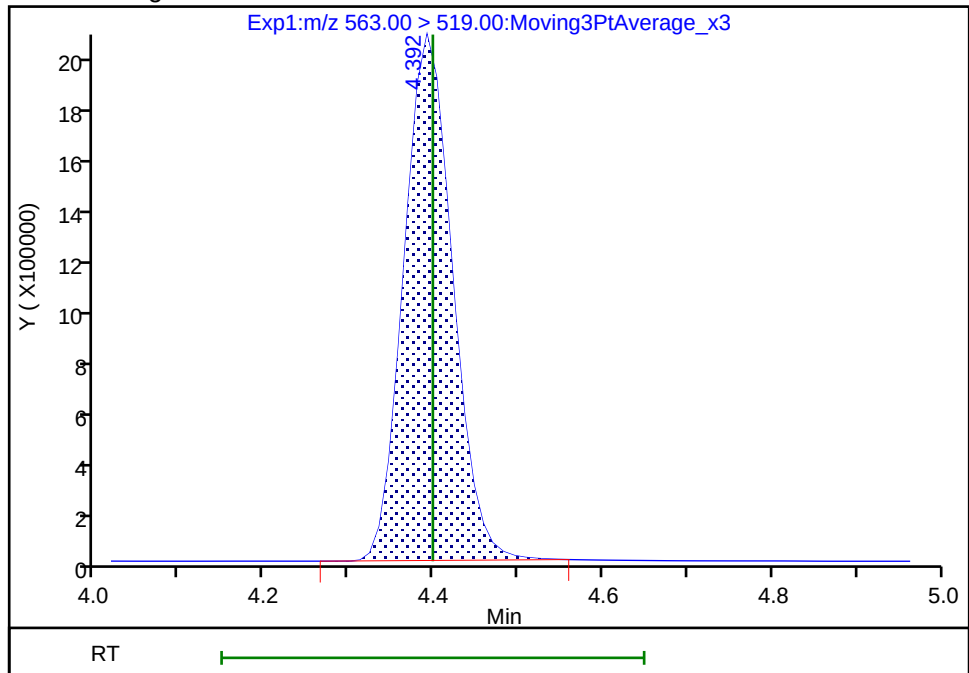
RT: 4.39
Area: 8161896
Amount: 8.944387
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 8093562
Amount: 8.880585
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 402 of 978

11/21/2022
4:10 PM

Eurofins Burlington

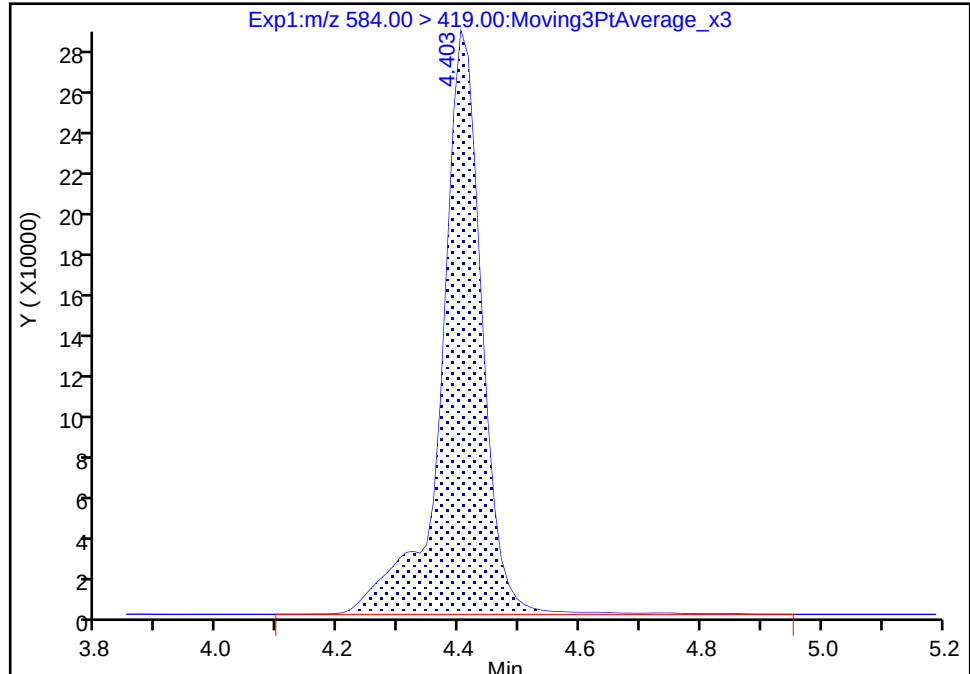
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

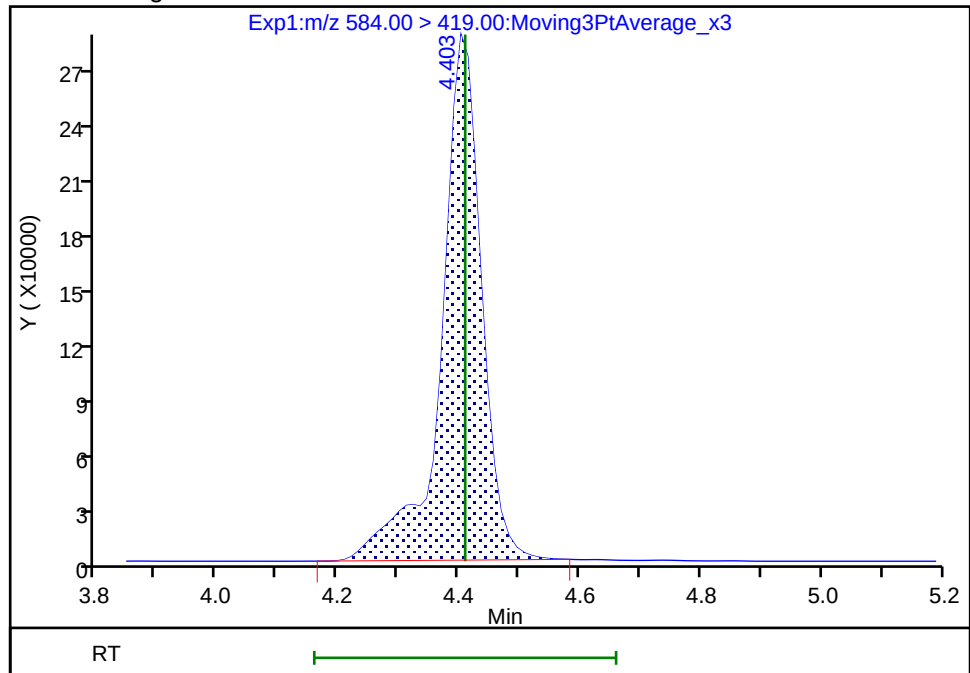
RT: 4.40
Area: 1316903
Amount: 9.848721
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 1295033
Amount: 9.711636
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 403 of 978

11/21/2022
4:10 PM

Eurofins Burlington

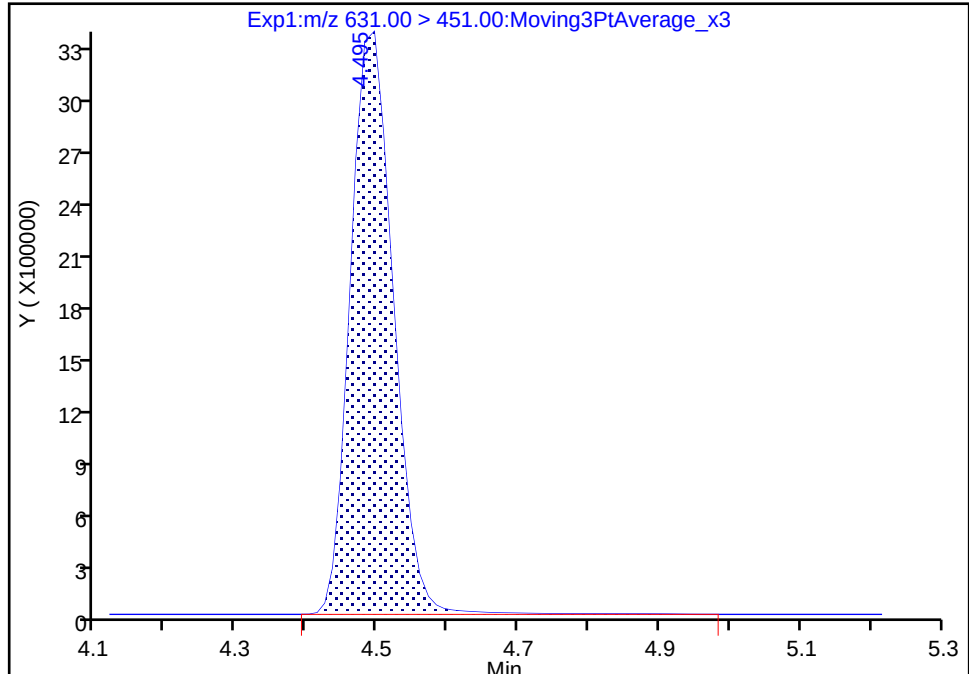
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

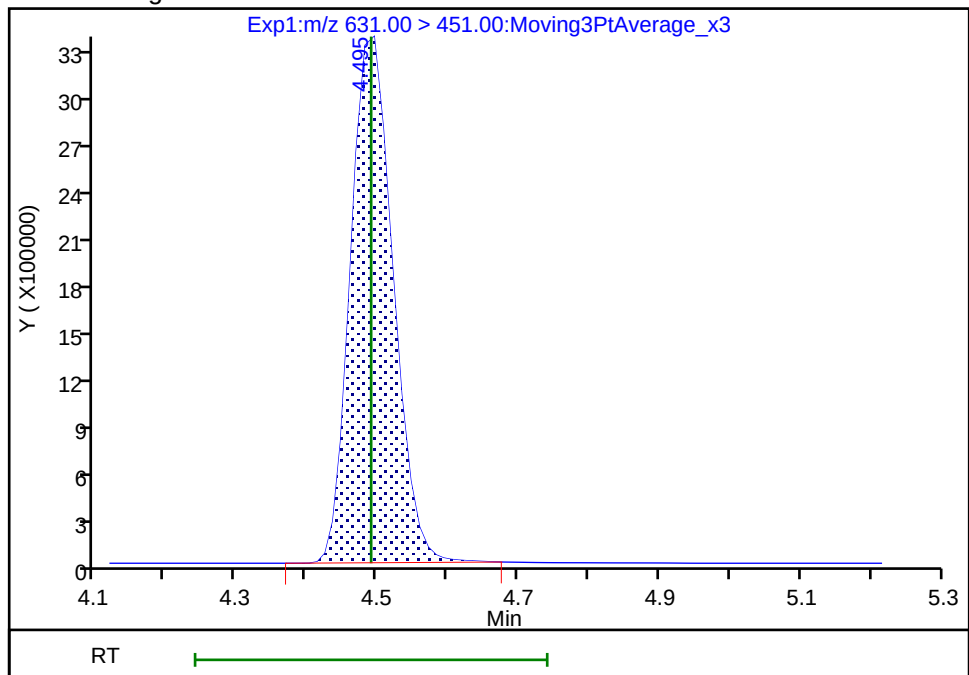
RT: 4.50
Area: 13924435
Amount: 8.772497
Amount Units: ng/ml

Processing Integration Results



RT: 4.50
Area: 13803551
Amount: 8.708073
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 404 of 978

11/21/2022
4:10 PM

Eurofins Burlington

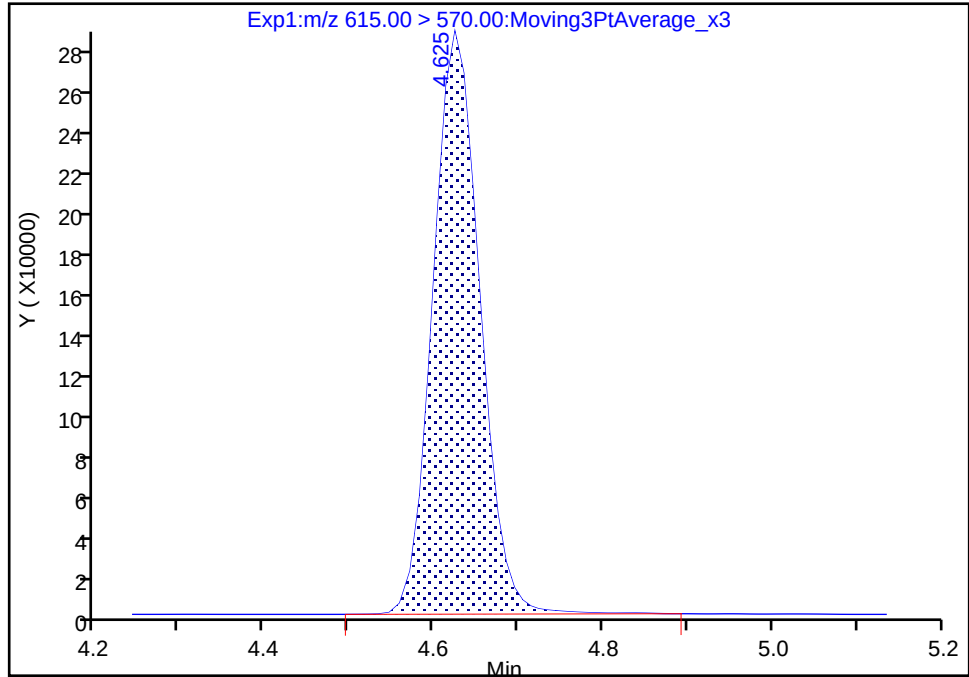
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

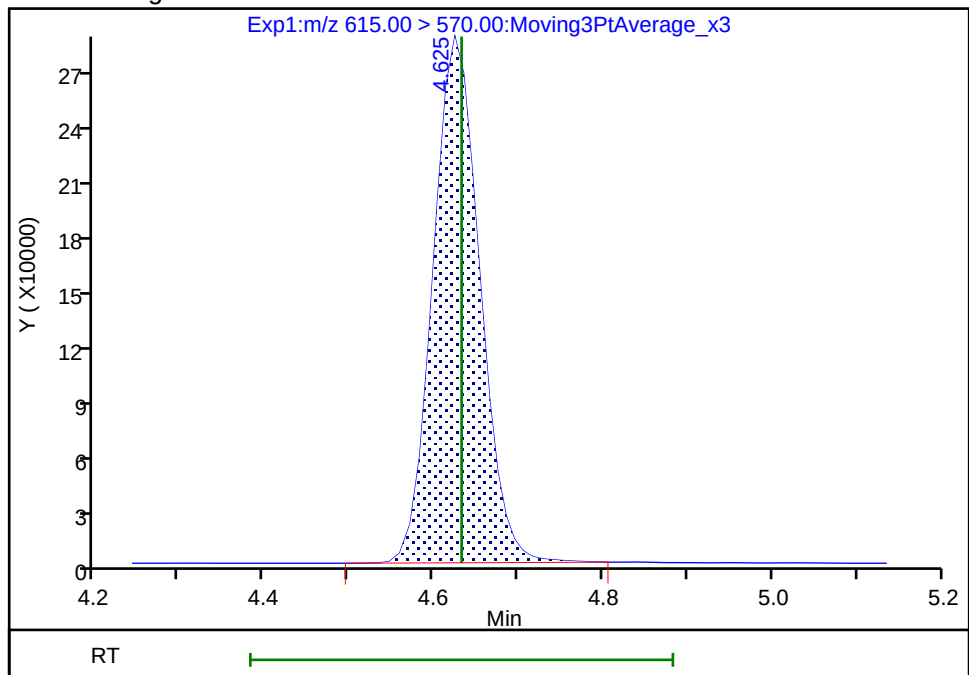
RT: 4.62
Area: 1089804
Amount: 1.278111
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 1085469
Amount: 1.273891
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 405 of 978

11/21/2022
4:10 PM

Eurofins Burlington

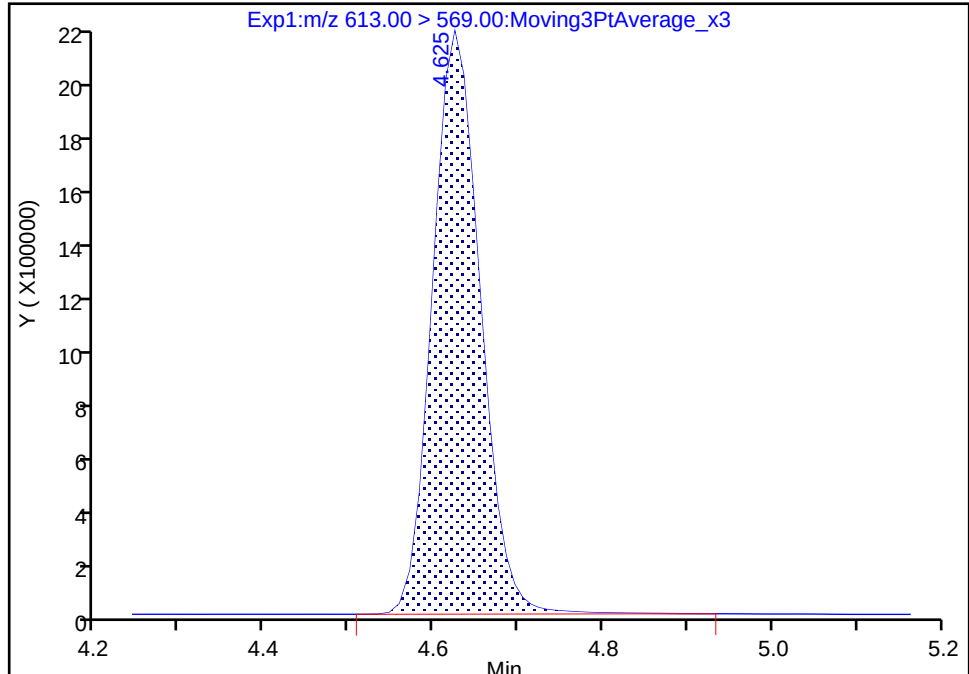
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

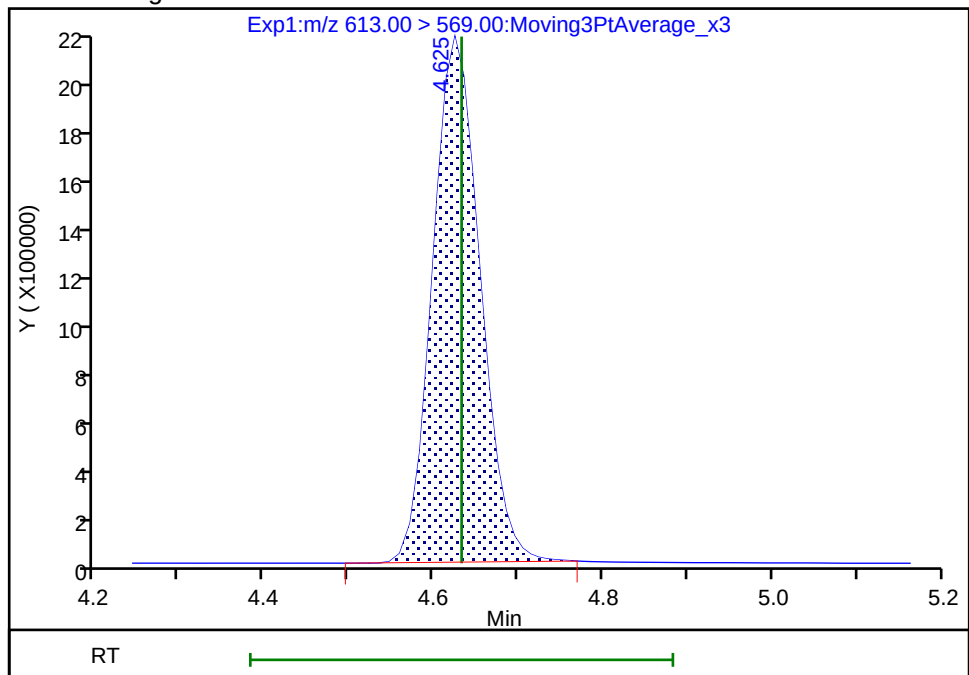
RT: 4.62
Area: 8581570
Amount: 9.202881
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 8496451
Amount: 9.156365
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 406 of 978

11/21/2022
4:10 PM

Eurofins Burlington

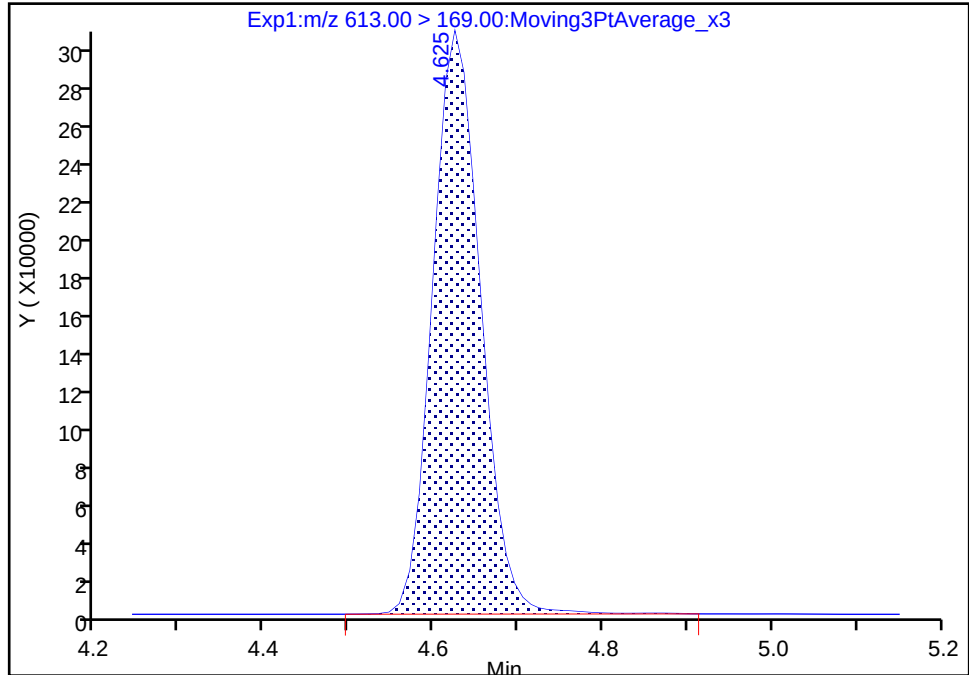
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

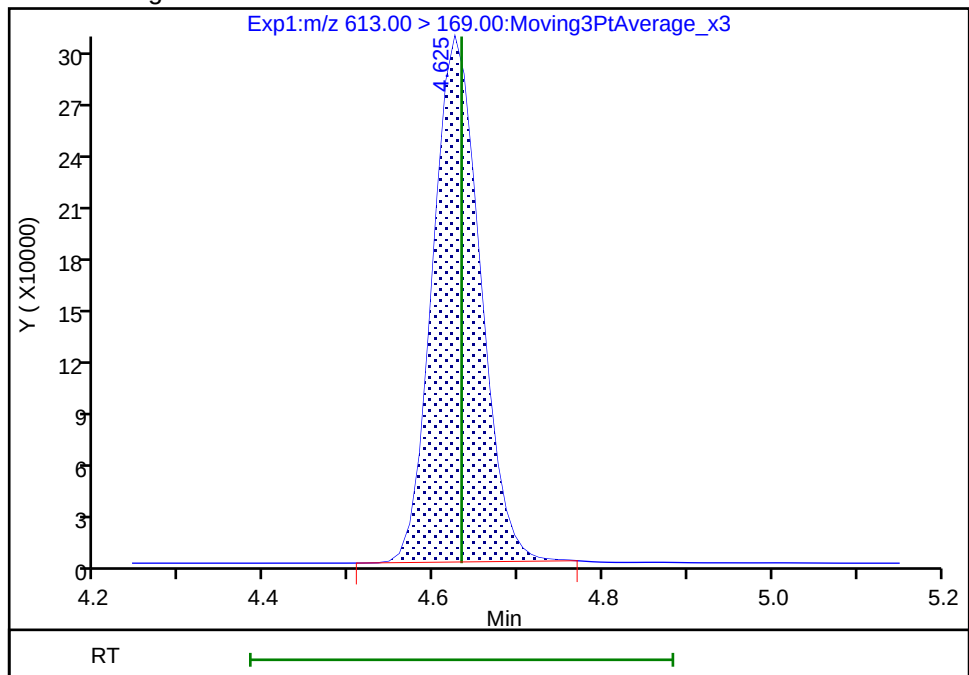
RT: 4.62
Area: 1216762
Amount: 9.202881
Amount Units: ng/ml

Processing Integration Results



RT: 4.62
Area: 1203517
Amount: 9.156365
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 407 of 97811/21/2022
4:10 PM

Eurofins Burlington

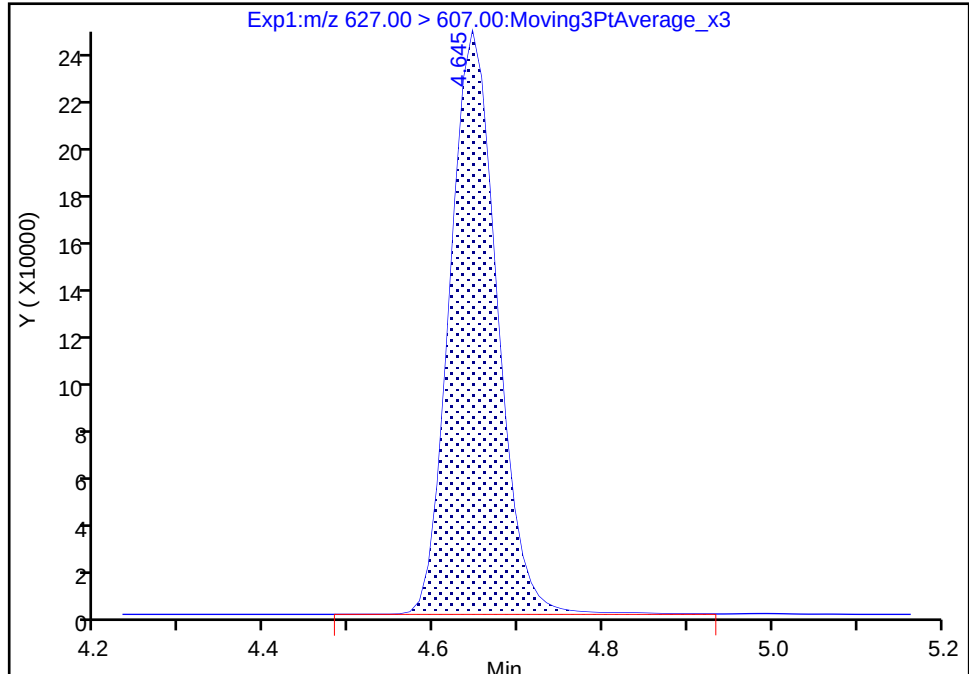
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

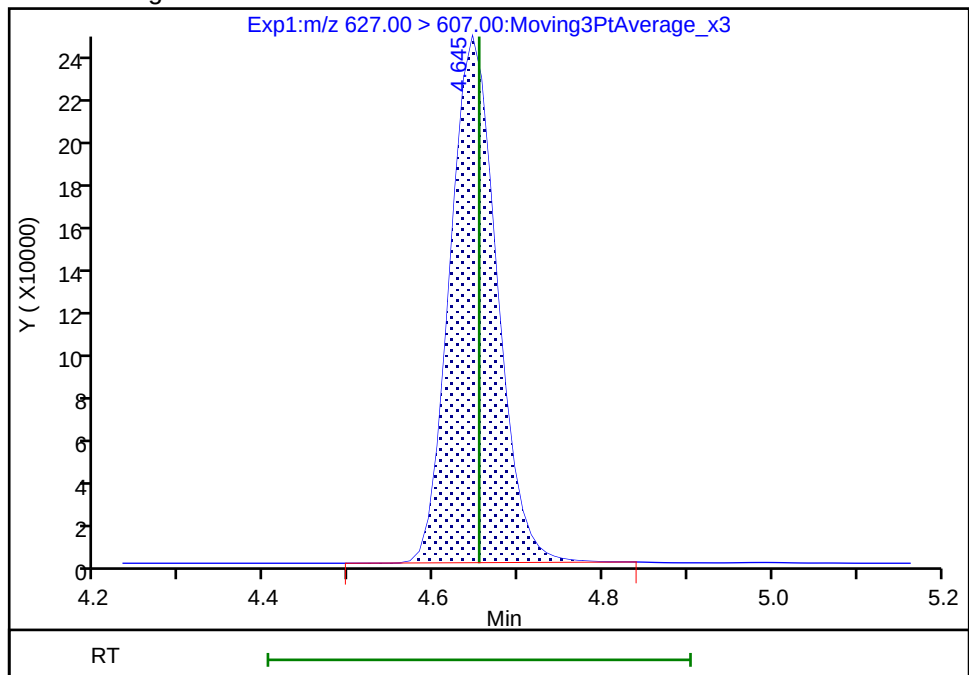
RT: 4.65
Area: 950634
Amount: 9.102947
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 942864
Amount: 9.040173
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 408 of 978

11/21/2022
4:10 PM

Eurofins Burlington

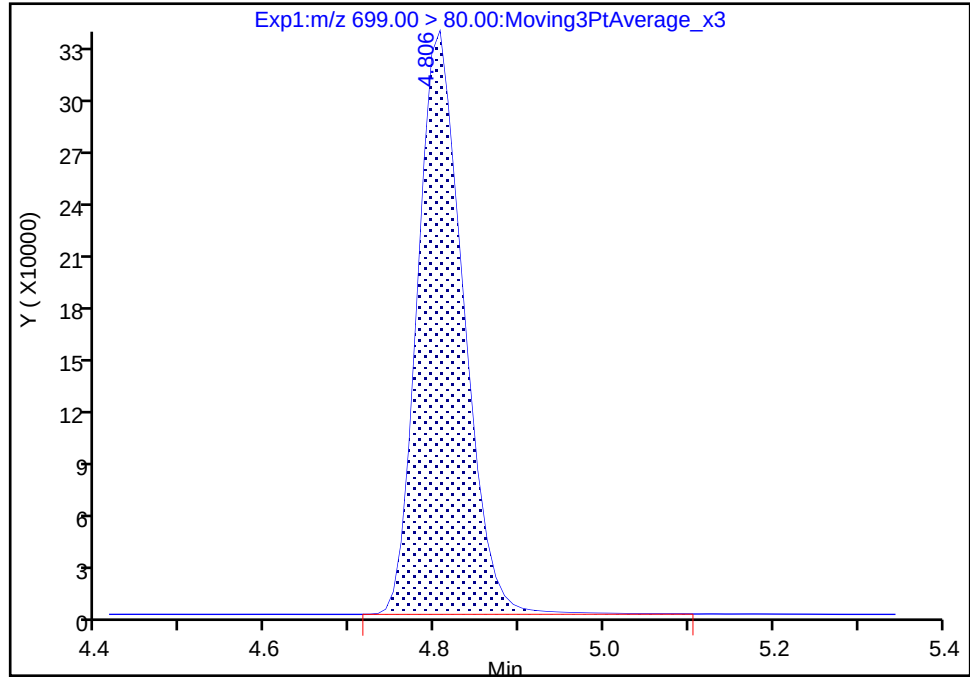
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

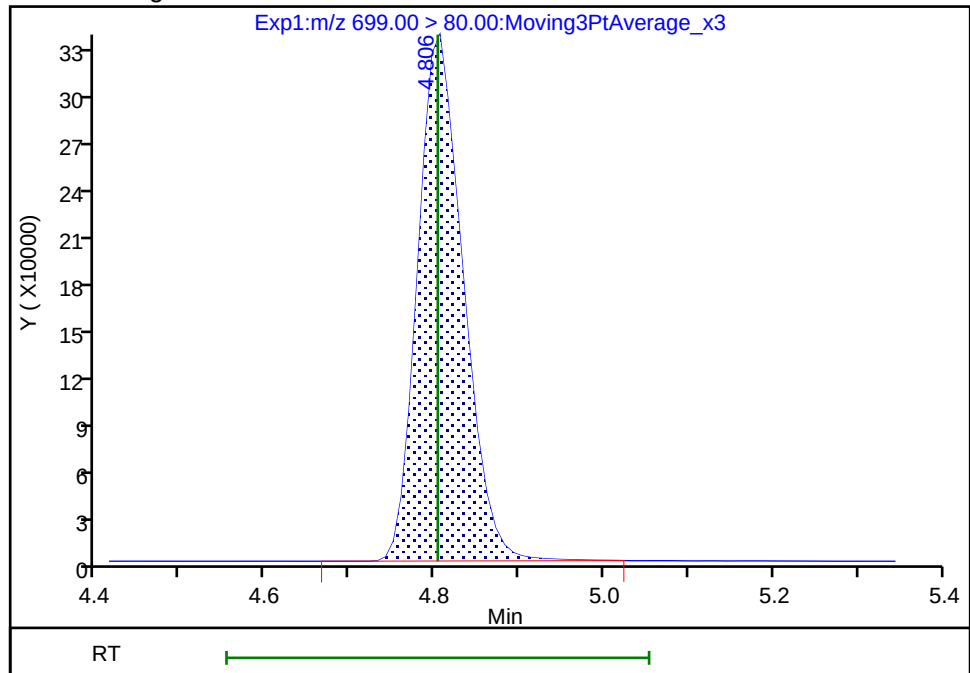
RT: 4.81
Area: 1254446
Amount: 8.942511
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1249382
Amount: 8.911950
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:30:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 409 of 978

11/21/2022
4:10 PM

Eurofins Burlington

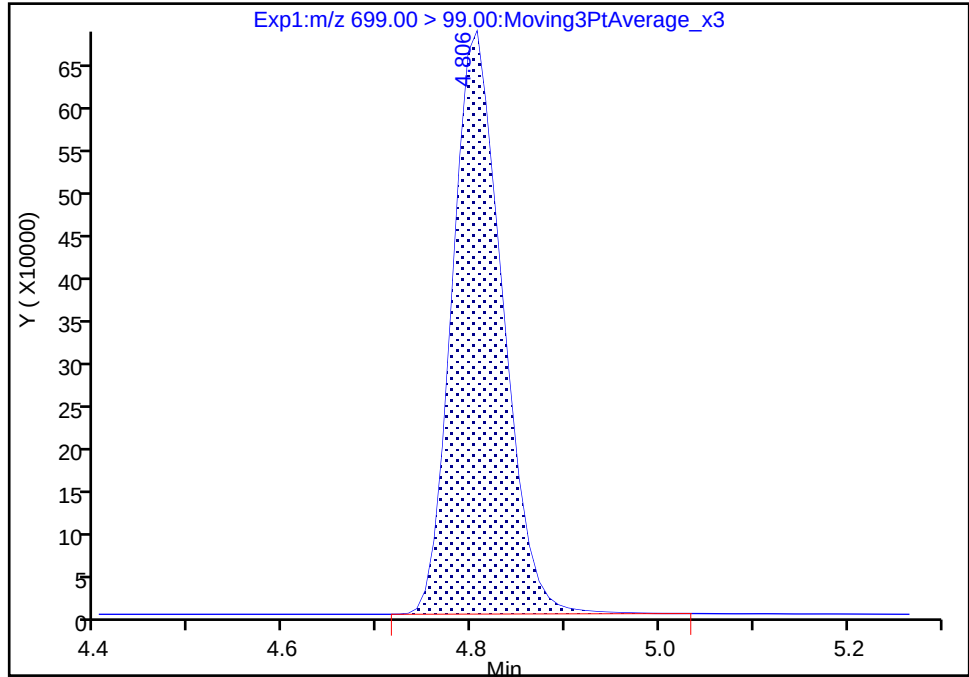
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

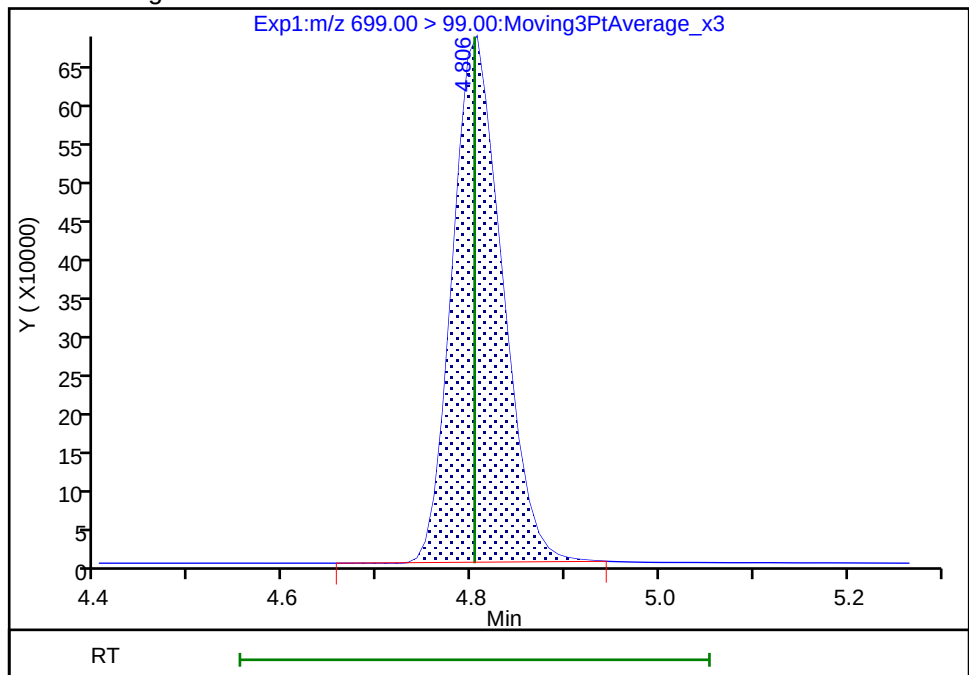
RT: 4.81
Area: 2516653
Amount: 8.942511
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 2497201
Amount: 8.911950
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 410 of 97811/21/2022
4:10 PM

Eurofins Burlington

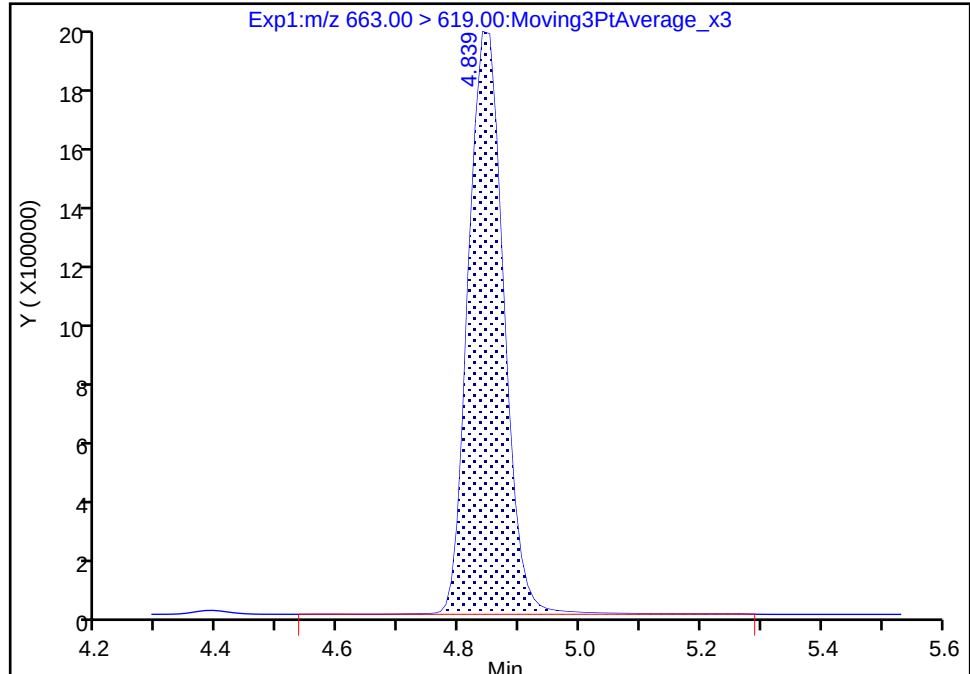
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

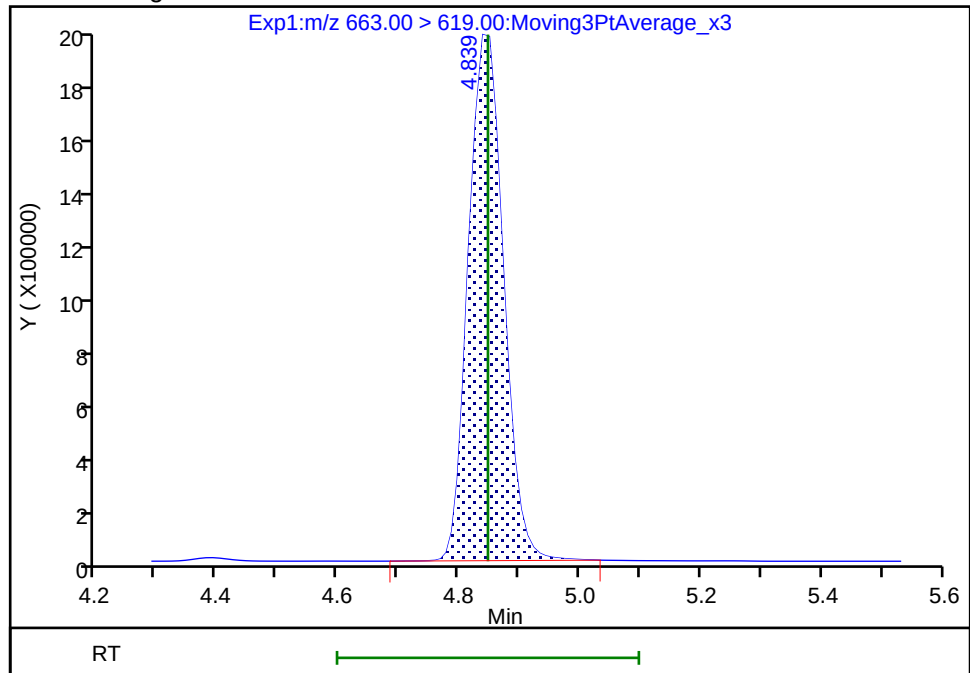
RT: 4.84
Area: 8108697
Amount: 9.522702
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 8044205
Amount: 9.458904
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 411 of 978

11/21/2022
4:10 PM

Eurofins Burlington

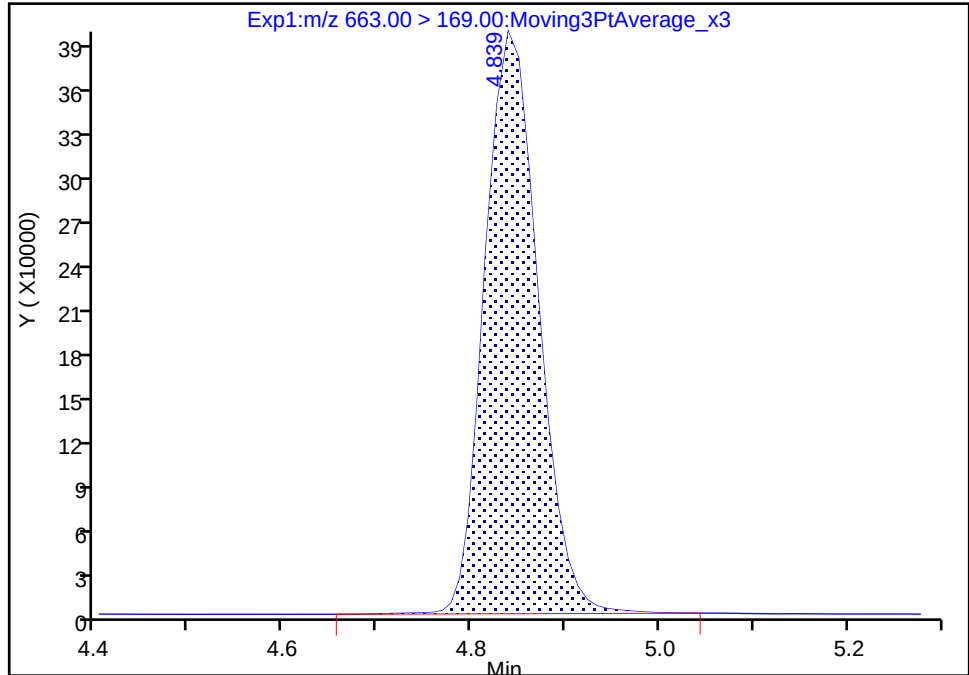
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

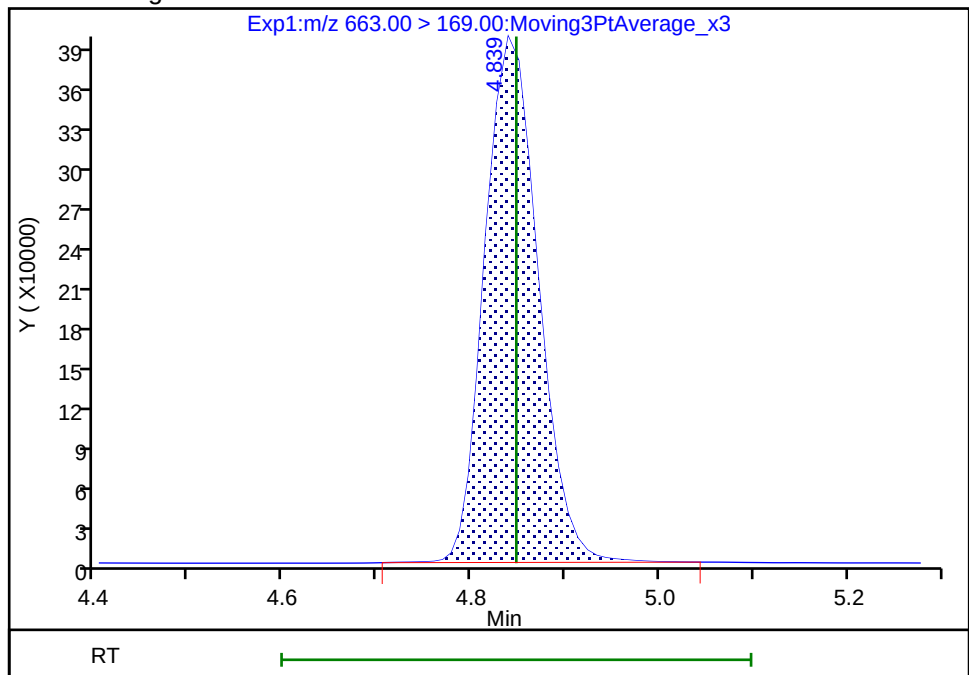
RT: 4.84
Area: 1568273
Amount: 9.522702
Amount Units: ng/ml

Processing Integration Results



RT: 4.84
Area: 1565294
Amount: 9.458904
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 412 of 97811/21/2022
4:10 PM

Eurofins Burlington

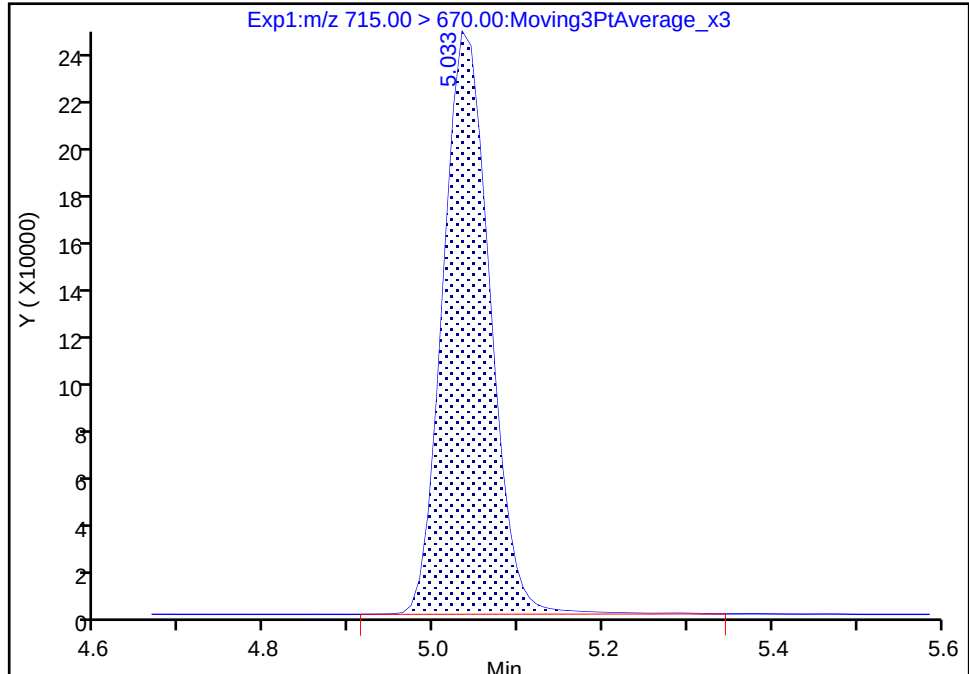
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

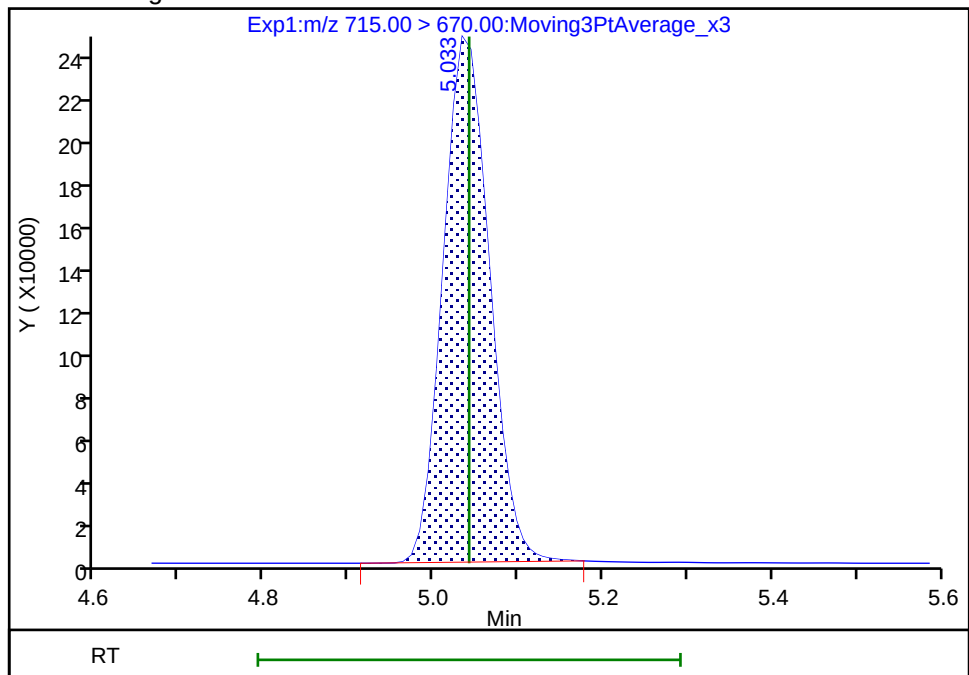
RT: 5.03
Area: 952645
Amount: 1.305883
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 941347
Amount: 1.293066
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 413 of 978

11/21/2022
4:10 PM

Eurofins Burlington

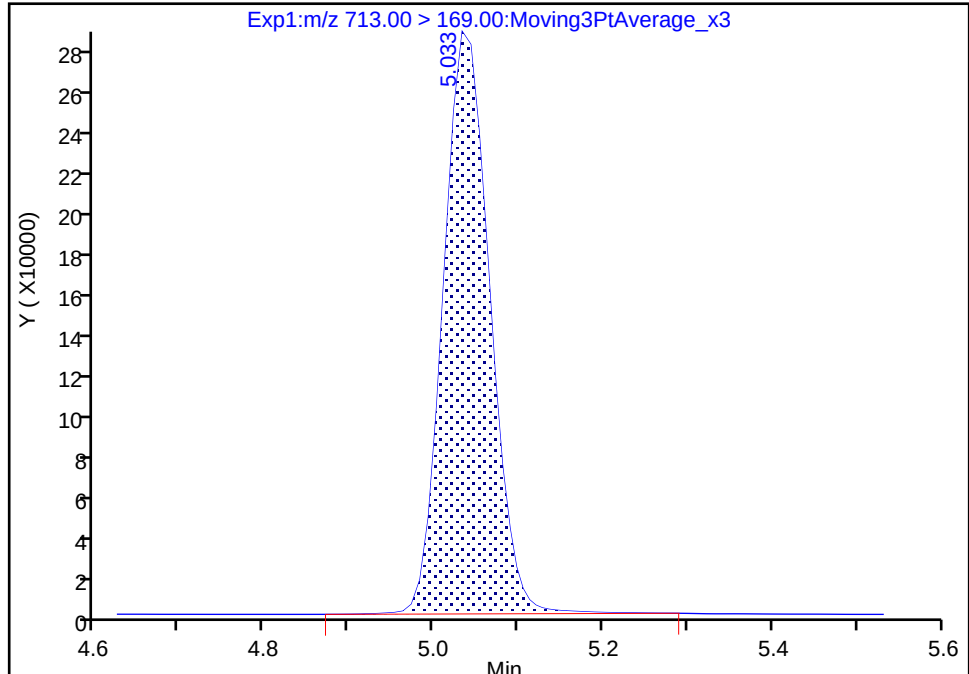
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

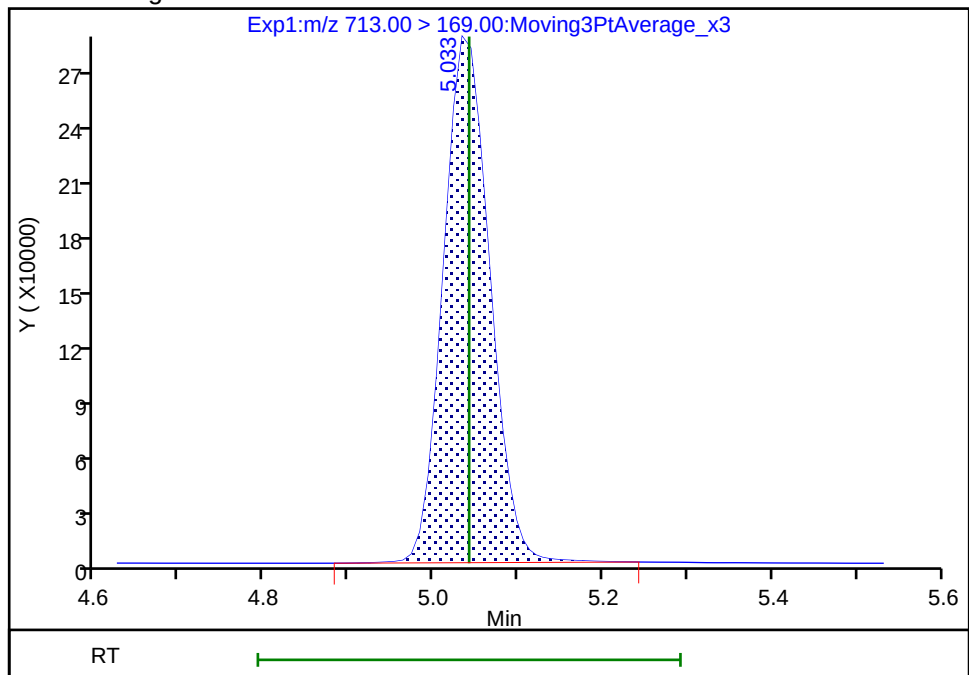
RT: 5.03
Area: 1072952
Amount: 9.064931
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 1070761
Amount: 9.141273
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 414 of 978

11/21/2022
4:10 PM

Eurofins Burlington

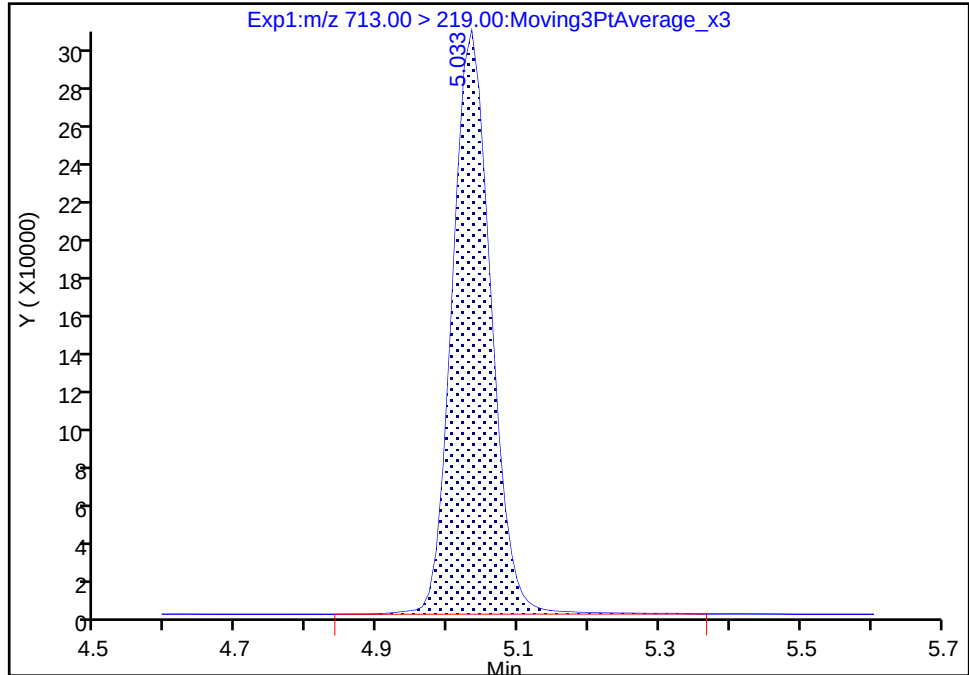
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

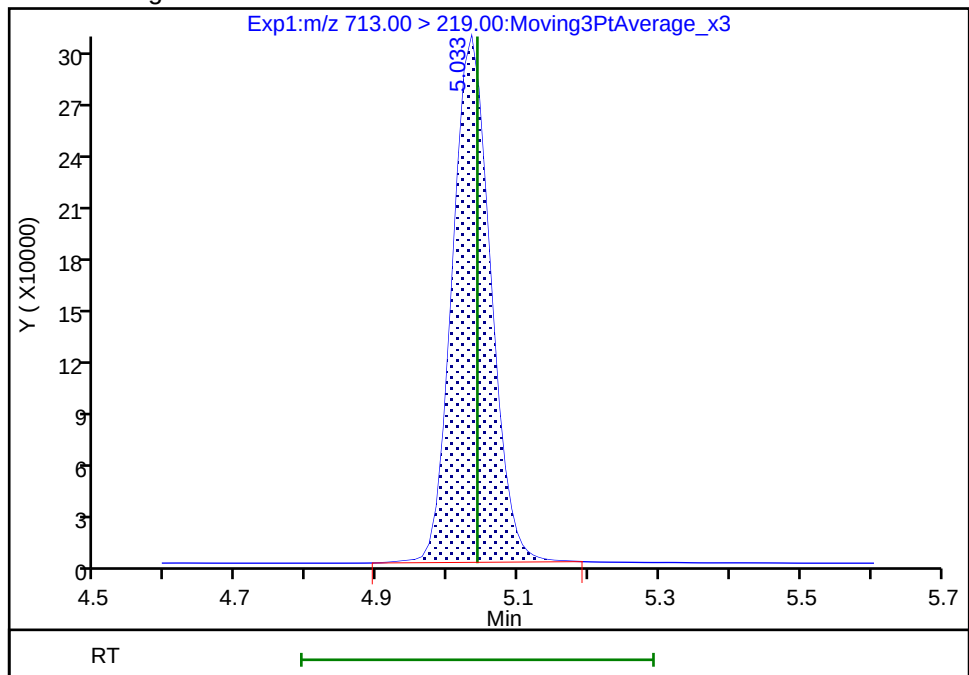
RT: 5.03
Area: 1150067
Amount: 9.064931
Amount Units: ng/ml

Processing Integration Results



RT: 5.03
Area: 1139063
Amount: 9.141273
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 415 of 97811/21/2022
4:10 PM

Eurofins Burlington

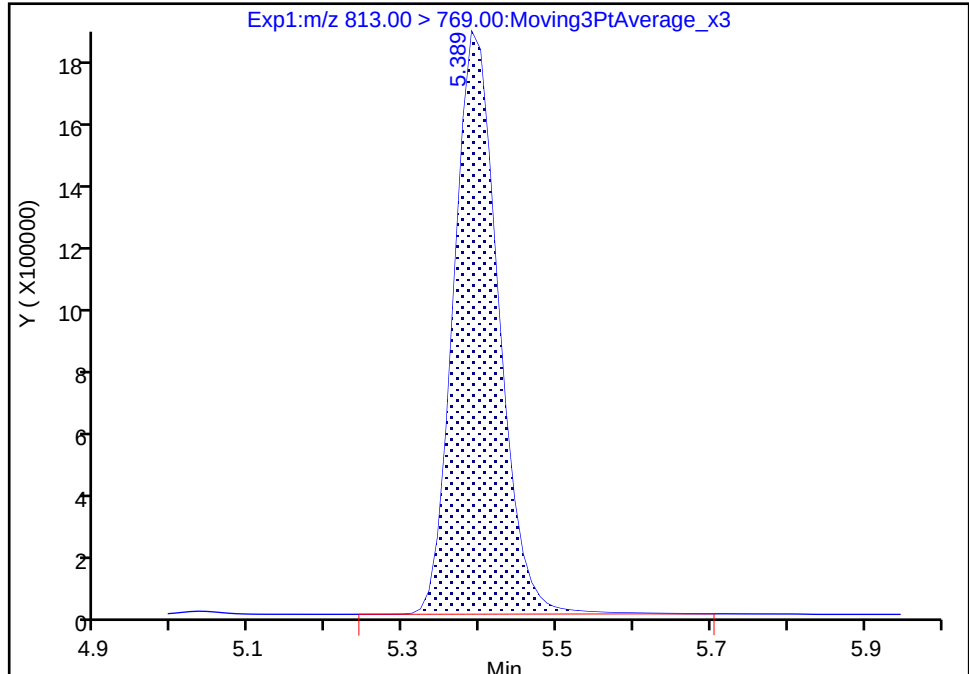
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

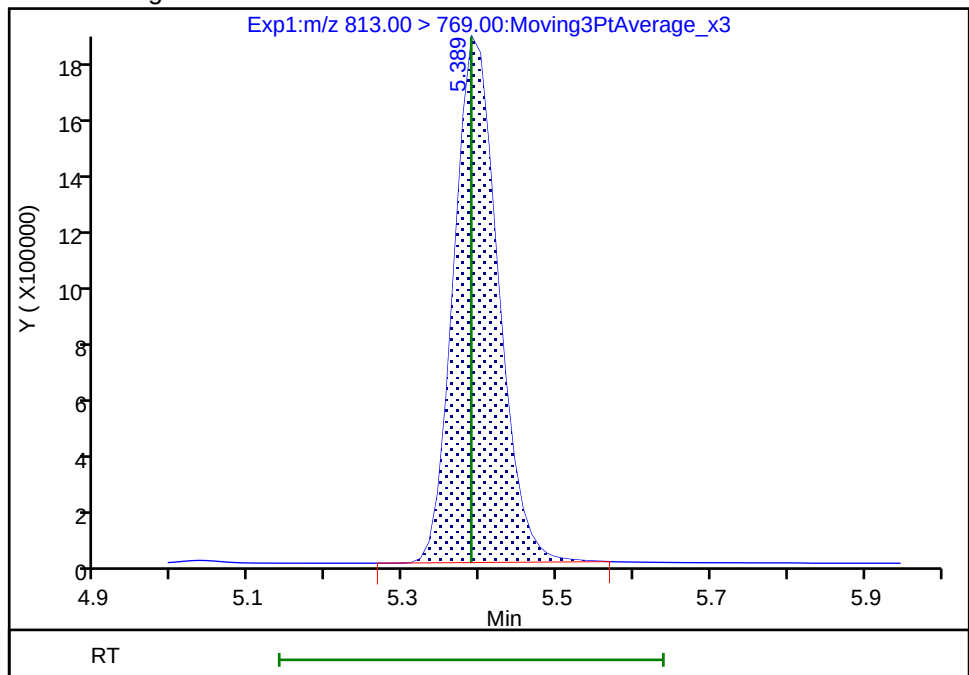
RT: 5.39
Area: 7490514
Amount: 9.795908
Amount Units: ng/ml

Processing Integration Results



RT: 5.39
Area: 7438664
Amount: 9.777135
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 416 of 978

11/21/2022
4:10 PM

Eurofins Burlington

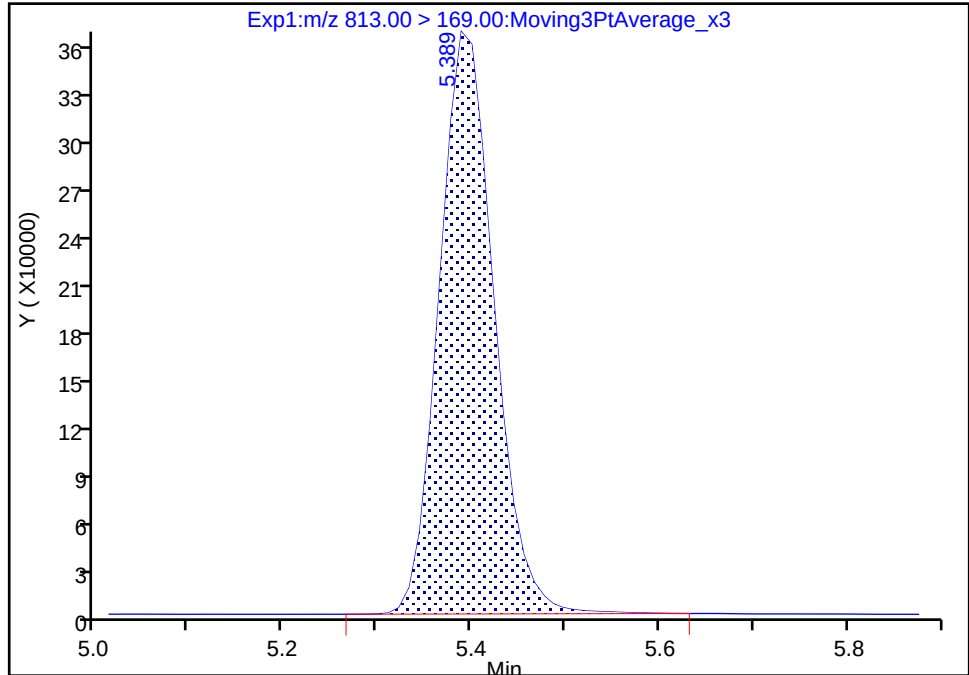
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

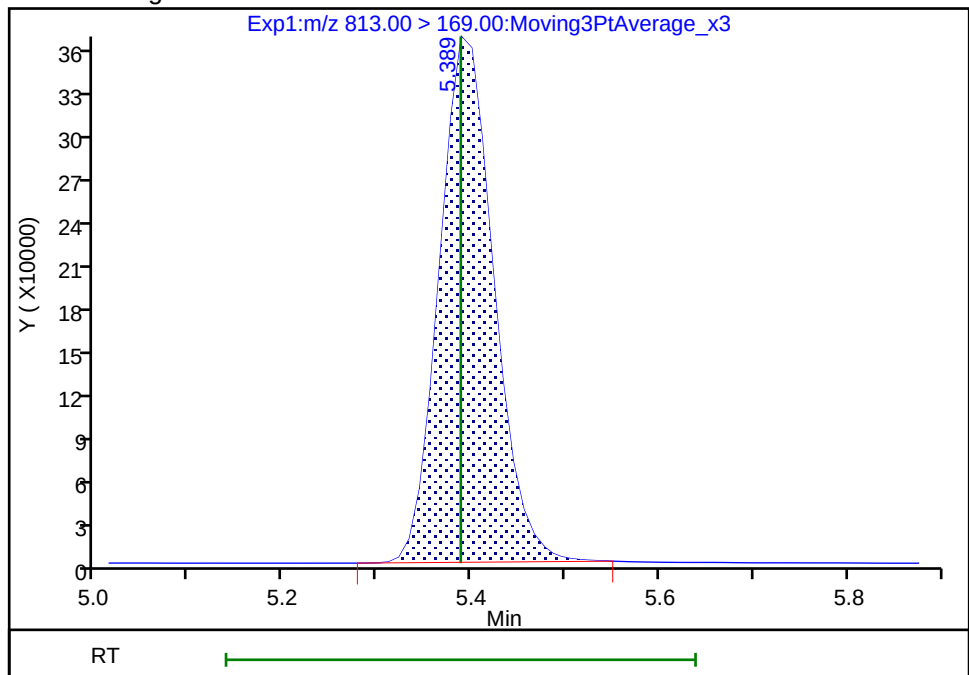
RT: 5.39
Area: 1494773
Amount: 9.795908
Amount Units: ng/ml

Processing Integration Results



RT: 5.39
Area: 1484674
Amount: 9.777135
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 417 of 97811/21/2022
4:10 PM

Eurofins Burlington

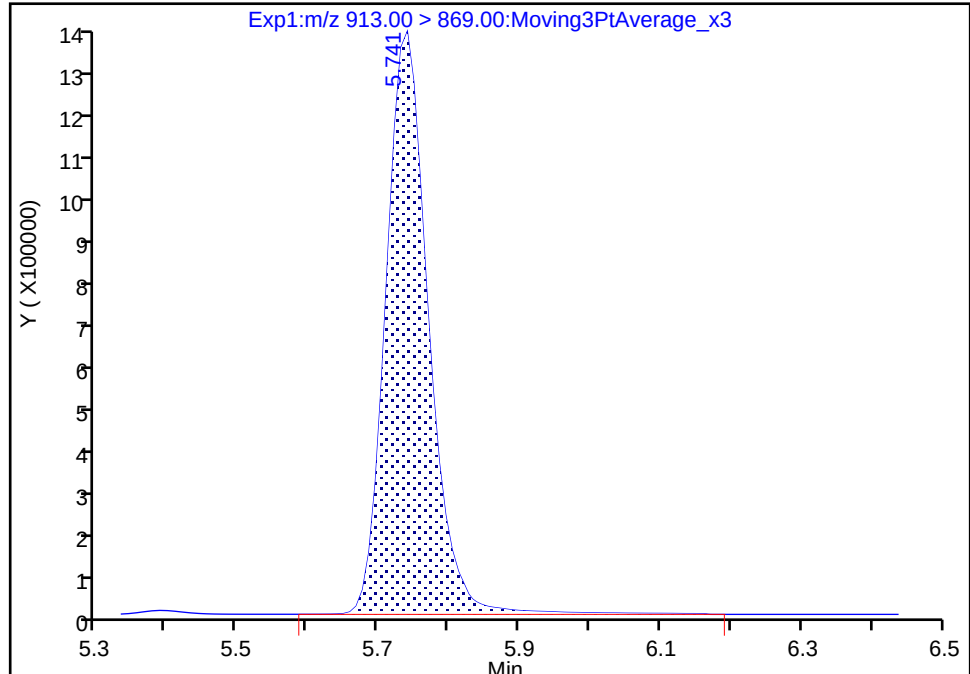
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

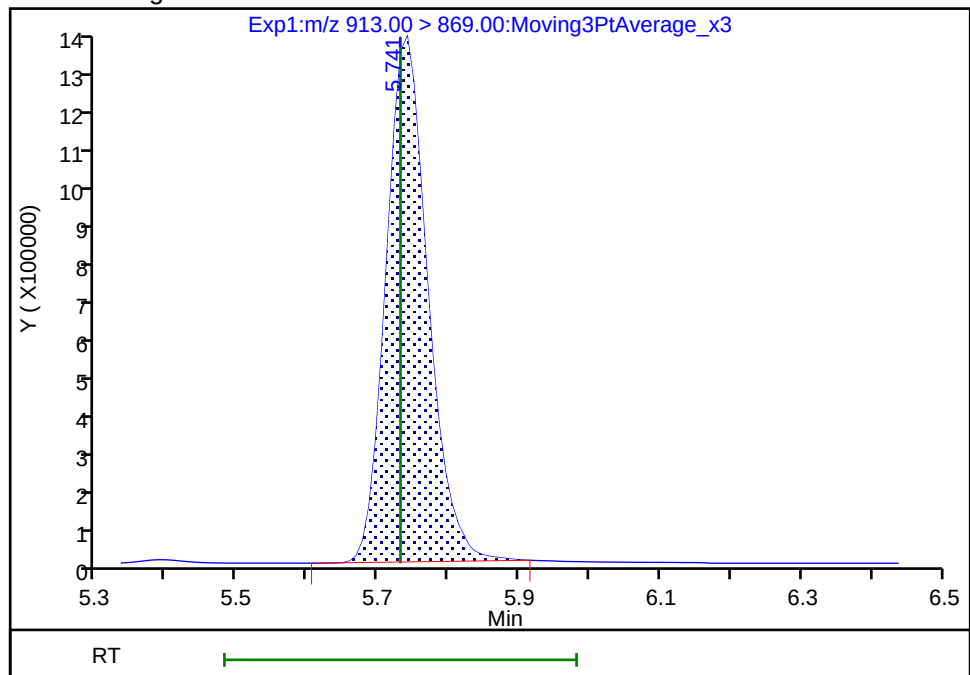
RT: 5.74
Area: 5720783
Amount: 9.213199
Amount Units: ng/ml

Processing Integration Results



RT: 5.74
Area: 5596168
Amount: 9.042756
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 418 of 978

11/21/2022
4:10 PM

Eurofins Burlington

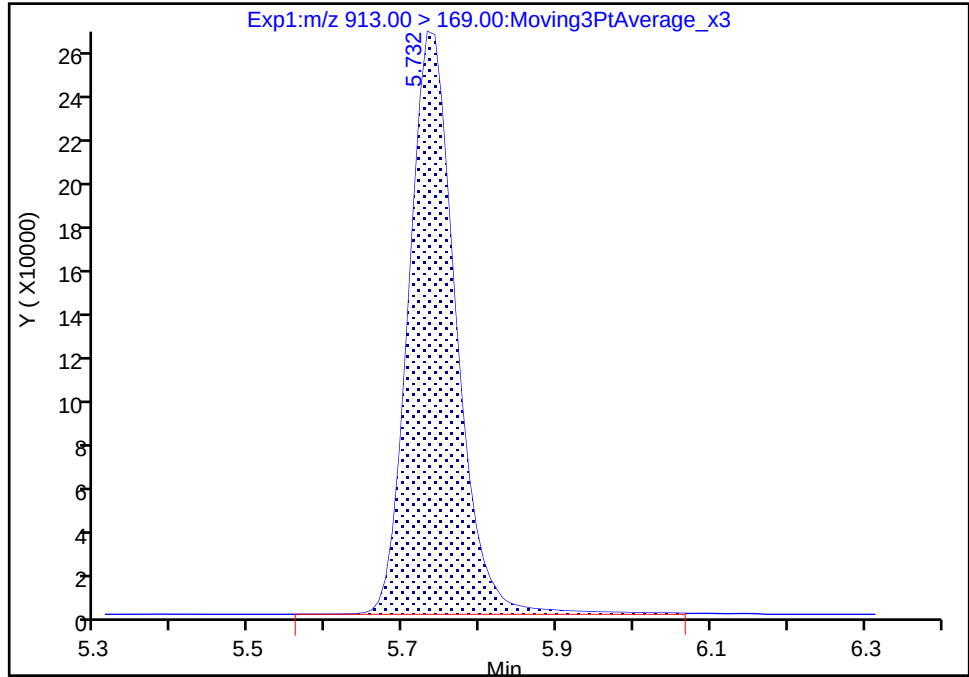
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
Injection Date: 14-Sep-2022 11:14:32 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

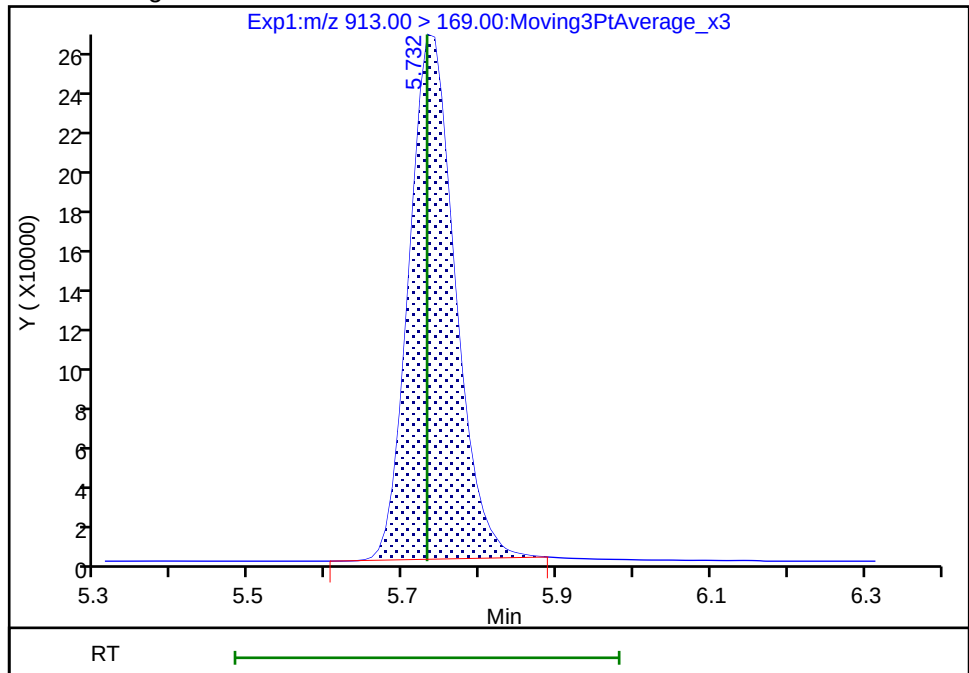
RT: 5.73
Area: 1133185
Amount: 9.213199
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 1104358
Amount: 9.042756
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 11:31:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 419 of 97811/21/2022
4:10 PM

Calibration

/ Perfluorobutanoic acid

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

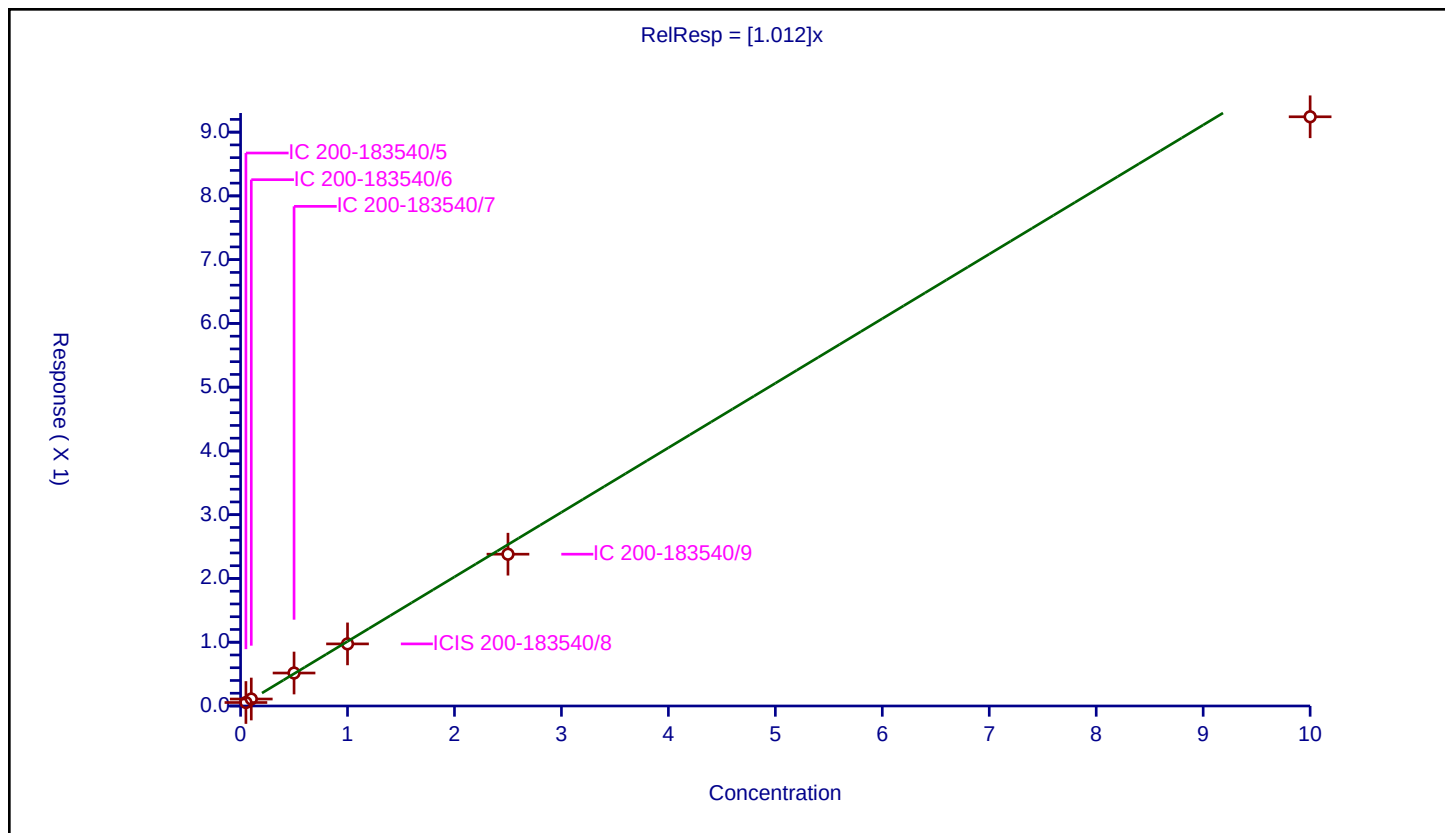
Curve Coefficients

Intercept: 0
 Slope: 1.012

Error Coefficients

Standard Error: 5850000
 Relative Standard Error: 7.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.054771	1.25	1747296.0	1.095421	Y
2	IC 200-183540/6	0.1	0.10946	1.25	2133884.0	1.0946	Y
3	IC 200-183540/7	0.5	0.517305	1.25	1758456.0	1.034611	Y
4	ICIS 200-183540/8	1.0	0.973685	1.25	1733241.0	0.973685	Y
5	IC 200-183540/9	2.5	2.380732	1.25	1754738.0	0.952293	Y
6	IC 200-183540/10	10.0	9.240877	1.25	1698736.0	0.924088	Y



Calibration

/ Perfluoropentanoic acid

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

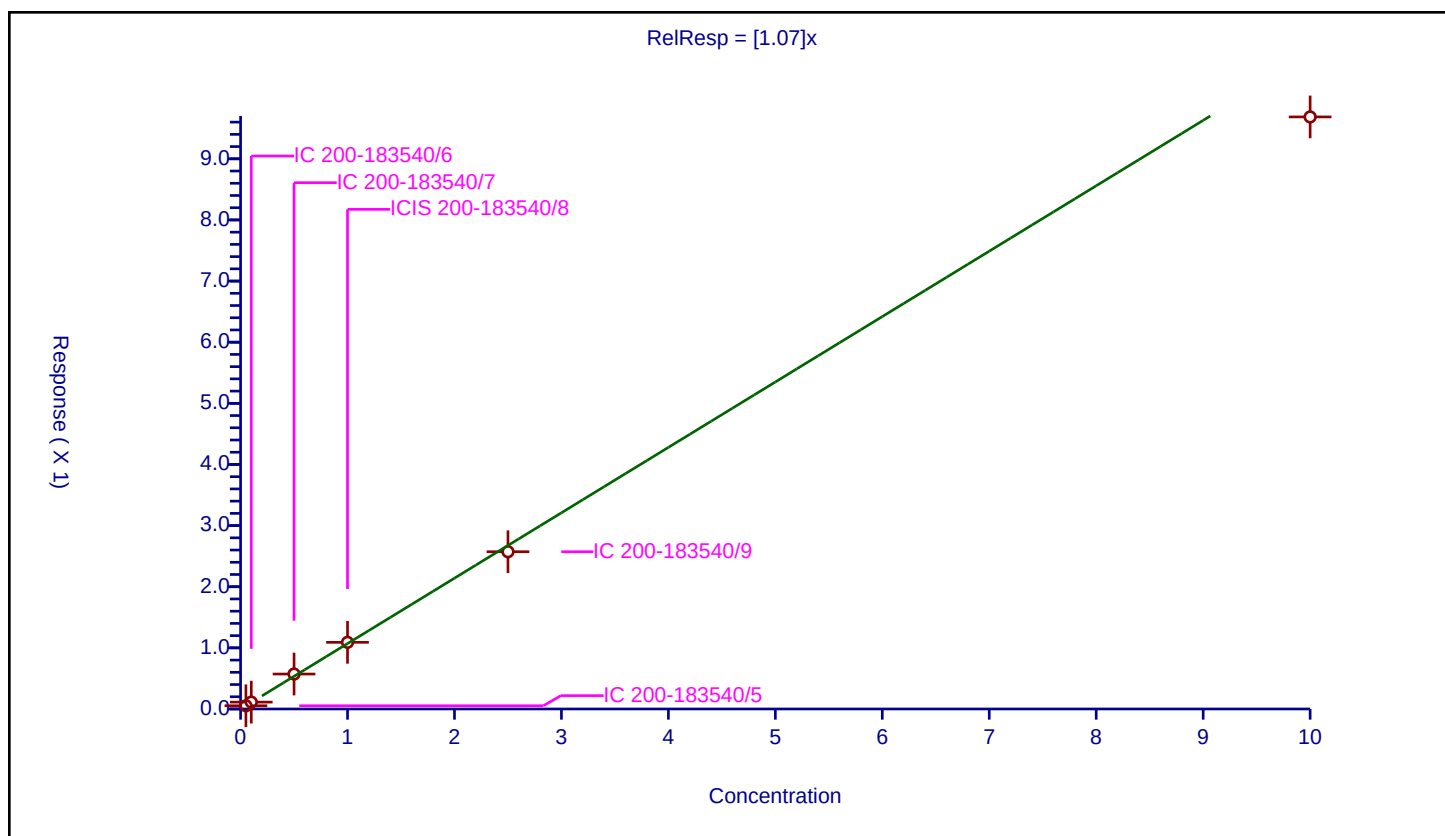
Curve Coefficients

Intercept: 0
Slope: 1.07

Error Coefficients

Standard Error: 4940000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.053201	1.25	1357522.0	1.064016	Y
2	IC 200-183540/6	0.1	0.112351	1.25	1726959.0	1.123514	Y
3	IC 200-183540/7	0.5	0.571848	1.25	1378228.0	1.143697	Y
4	ICIS 200-183540/8	1.0	1.090413	1.25	1357133.0	1.090413	Y
5	IC 200-183540/9	2.5	2.572549	1.25	1335376.0	1.02902	Y
6	IC 200-183540/10	10.0	9.684966	1.25	1368680.0	0.968497	Y



Calibration

/ Perfluorobutanesulfonic acid

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

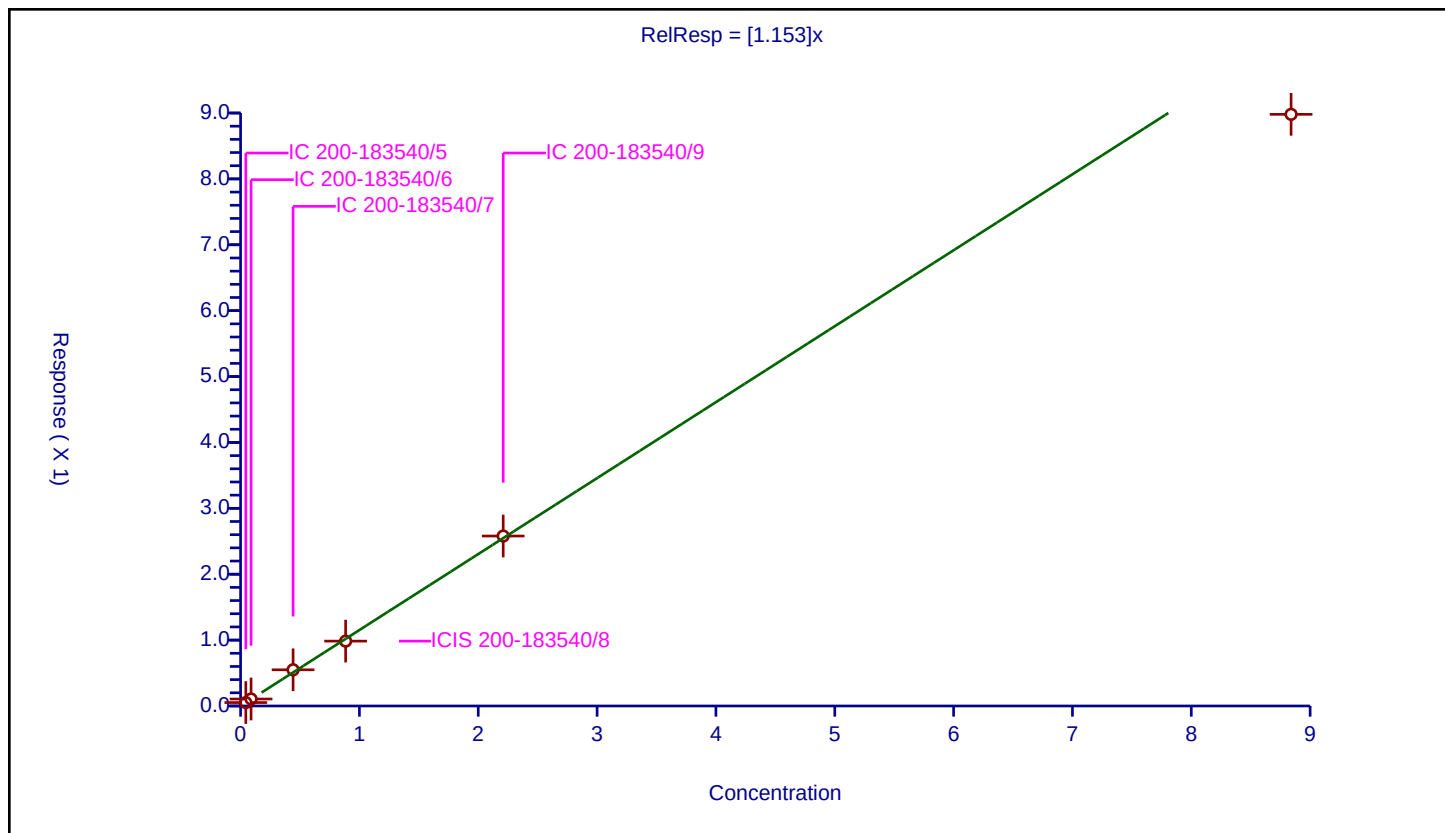
Curve Coefficients

Intercept: 0
 Slope: 1.153

Error Coefficients

Standard Error: 4600000
 Relative Standard Error: 6.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0442	0.052108	1.1625	1306004.0	1.178905	Y
2	IC 200-183540/6	0.0884	0.1059	1.1625	1599636.0	1.197966	Y
3	IC 200-183540/7	0.442	0.549578	1.1625	1300458.0	1.243388	Y
4	ICIS 200-183540/8	0.884	0.984458	1.1625	1290024.0	1.11364	Y
5	IC 200-183540/9	2.21	2.5795	1.1625	1259228.0	1.167195	Y
6	IC 200-183540/10	8.84	8.979745	1.1625	1272162.0	1.015808	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

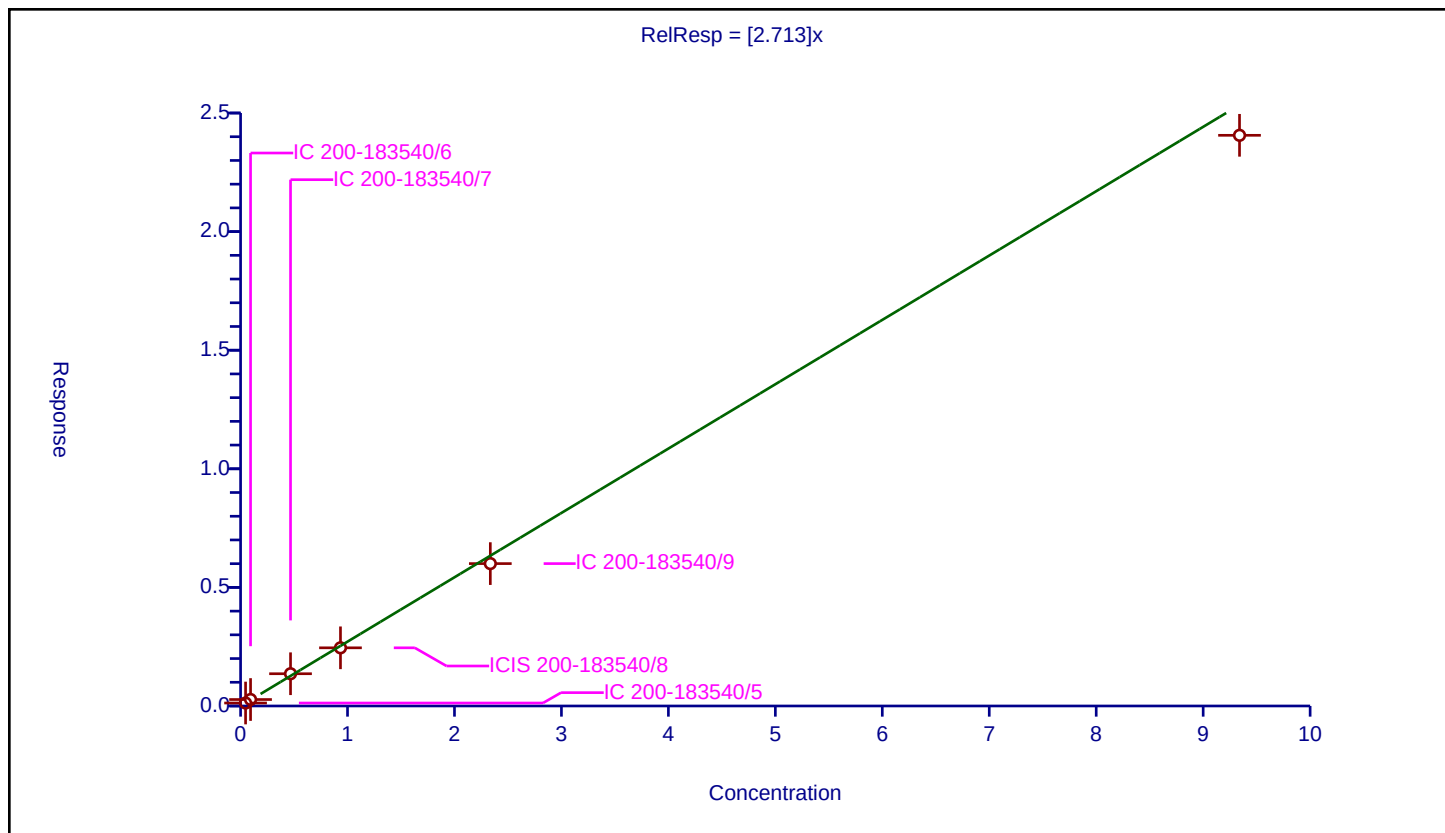
Curve Coefficients

Intercept: 0
 Slope: 2.713

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0467	0.124894	1.1675	116980.0	2.674389	Y
2	IC 200-183540/6	0.0934	0.272755	1.1675	139070.0	2.920292	Y
3	IC 200-183540/7	0.467	1.359252	1.1675	119373.0	2.910604	Y
4	ICIS 200-183540/8	0.934	2.452081	1.1675	126053.0	2.625354	Y
5	IC 200-183540/9	2.335	6.003202	1.1675	117073.0	2.570964	Y
6	IC 200-183540/10	9.34	24.059715	1.1675	111337.0	2.575987	Y



Calibration

/ Perfluorohexanoic acid

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

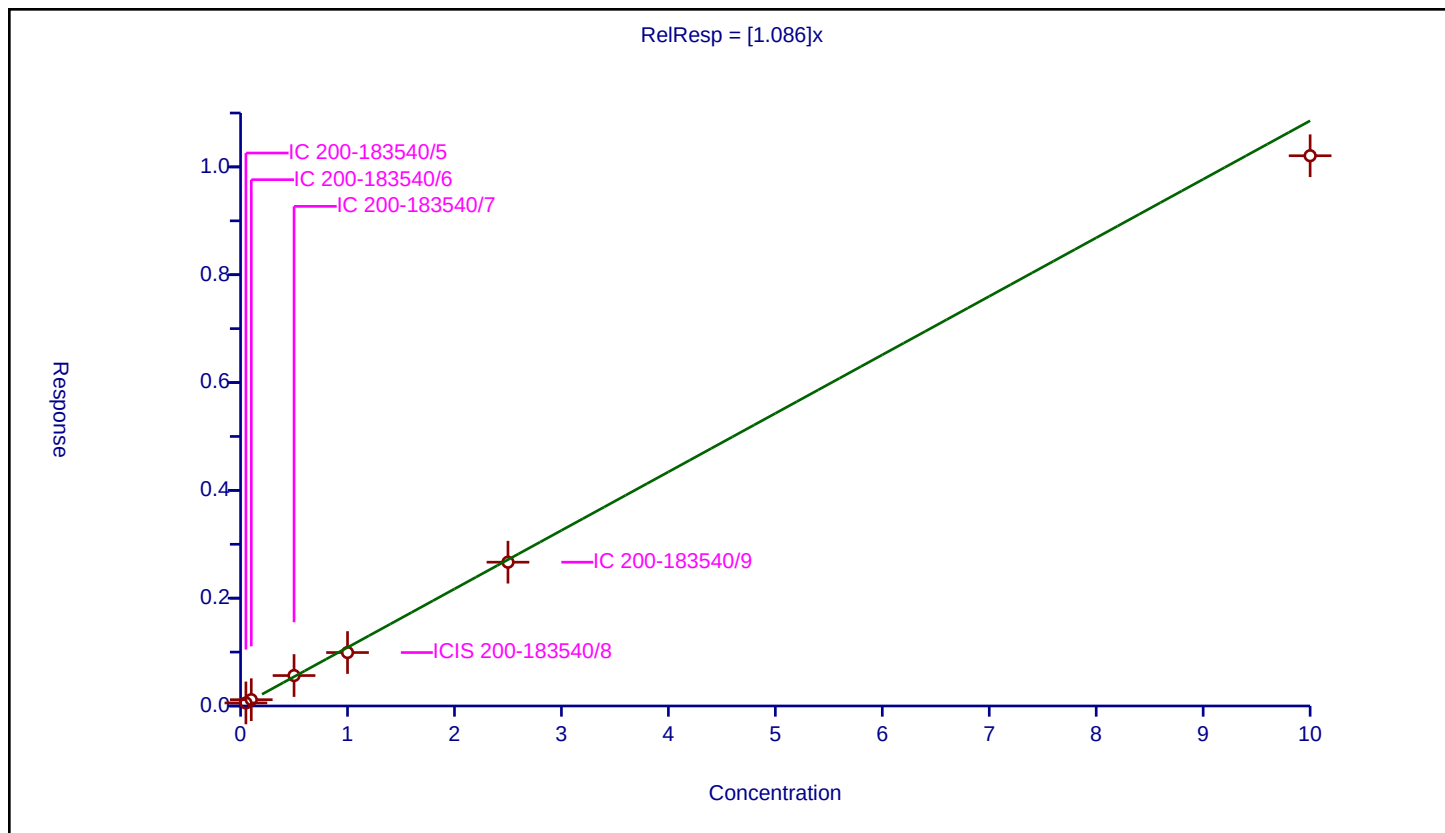
Curve Coefficients

Intercept: 0
 Slope: 1.086

Error Coefficients

Standard Error: 5090000
 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 200-183540/5	0.05	0.056862	1.25	1381388.0	1.137244	Y
2	IC 200-183540/6	0.1	0.116805	1.25	1677977.0	1.168051	Y
3	IC 200-183540/7	0.5	0.564595	1.25	1411774.0	1.129189	Y
4	ICIS 200-183540/8	1.0	0.991801	1.25	1428554.0	0.991801	Y
5	IC 200-183540/9	2.5	2.667519	1.25	1425483.0	1.067007	Y
6	IC 200-183540/10	10.0	10.207354	1.25	1332557.0	1.020735	Y



Calibration

/ Perfluoropentanesulfonic acid

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

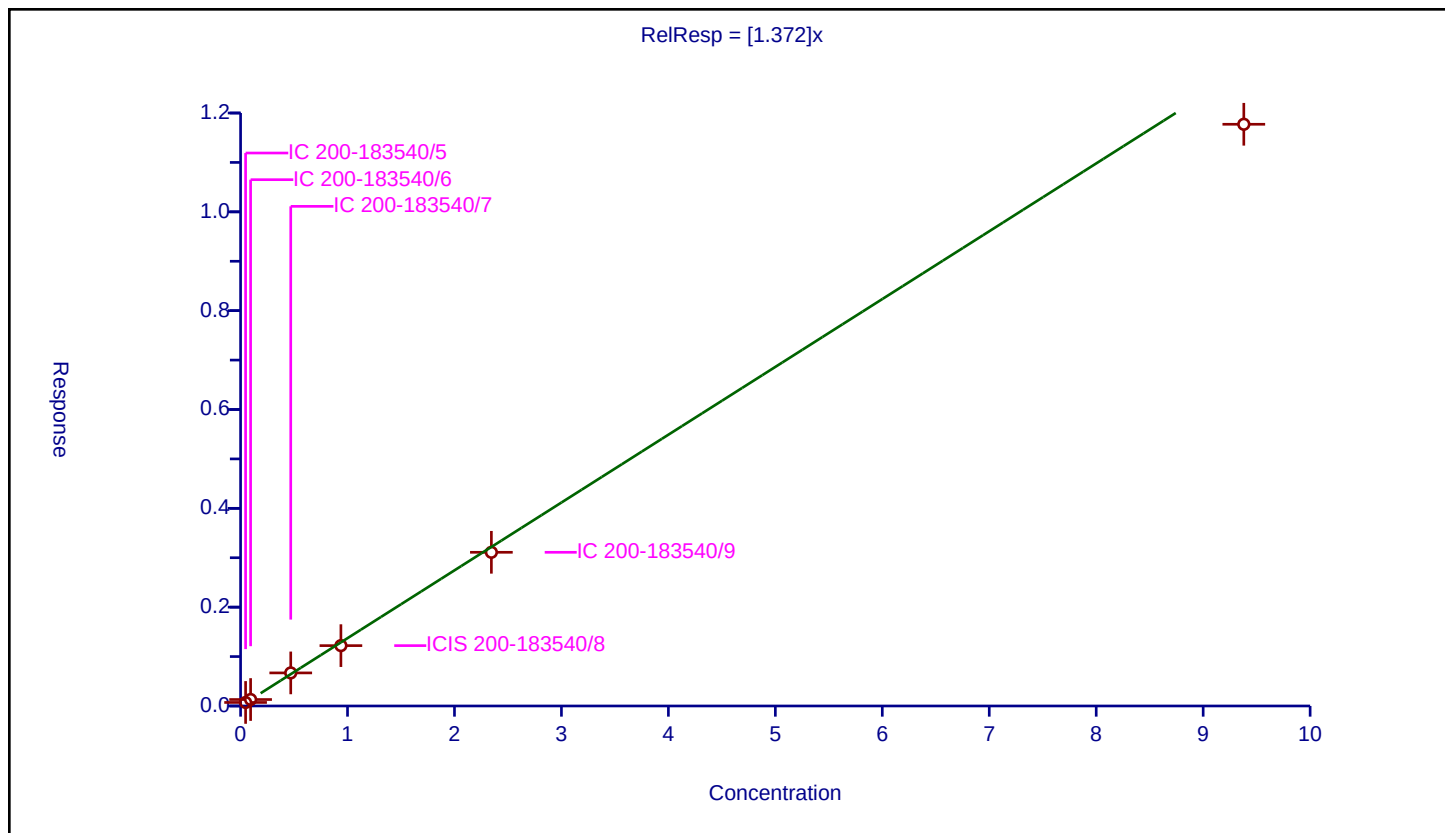
Curve Coefficients

Intercept: 0
 Slope: 1.372

Error Coefficients

Standard Error: 4210000
 Relative Standard Error: 7.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0469	0.071526	1.1825	906294.0	1.525072	Y
2	IC 200-183540/6	0.0938	0.131127	1.1825	1176053.0	1.397941	Y
3	IC 200-183540/7	0.469	0.669647	1.1825	964013.0	1.427818	Y
4	ICIS 200-183540/8	0.938	1.221771	1.1825	955365.0	1.302528	Y
5	IC 200-183540/9	2.345	3.110093	1.1825	925652.0	1.326266	Y
6	IC 200-183540/10	9.38	11.772314	1.1825	906172.0	1.255044	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

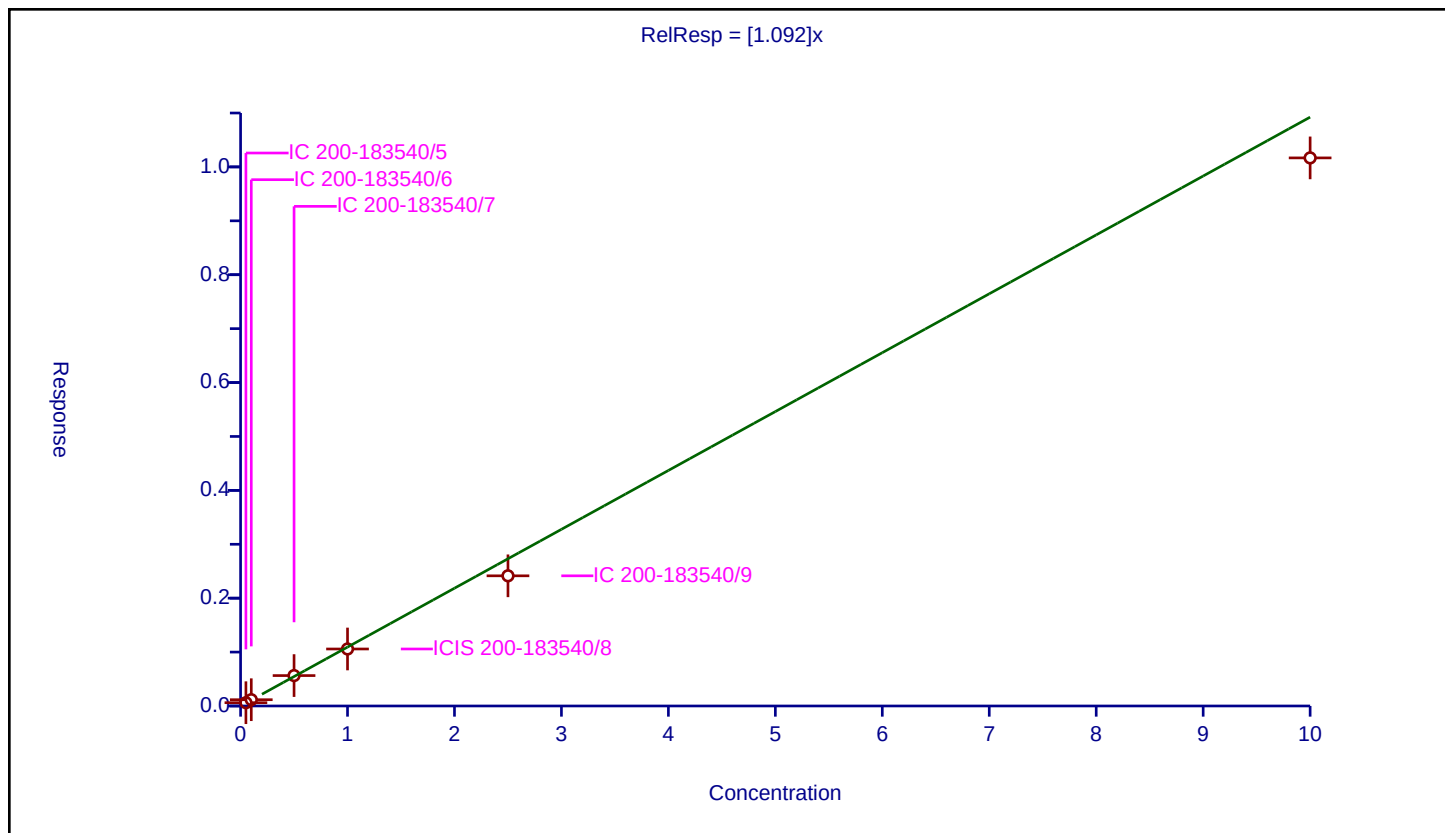
Curve Coefficients

Intercept: 0
 Slope: 1.092

Error Coefficients

Standard Error: 968000
 Relative Standard Error: 8.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.061131	1.25	262754.0	1.222626	Y
2	IC 200-183540/6	0.1	0.116311	1.25	311450.0	1.163108	Y
3	IC 200-183540/7	0.5	0.564035	1.25	261143.0	1.12807	Y
4	ICIS 200-183540/8	1.0	1.057533	1.25	266188.0	1.057533	Y
5	IC 200-183540/9	2.5	2.414867	1.25	266054.0	0.965947	Y
6	IC 200-183540/10	10.0	10.167529	1.25	256501.0	1.016753	Y



Calibration

/ Perfluoroheptanoic acid

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

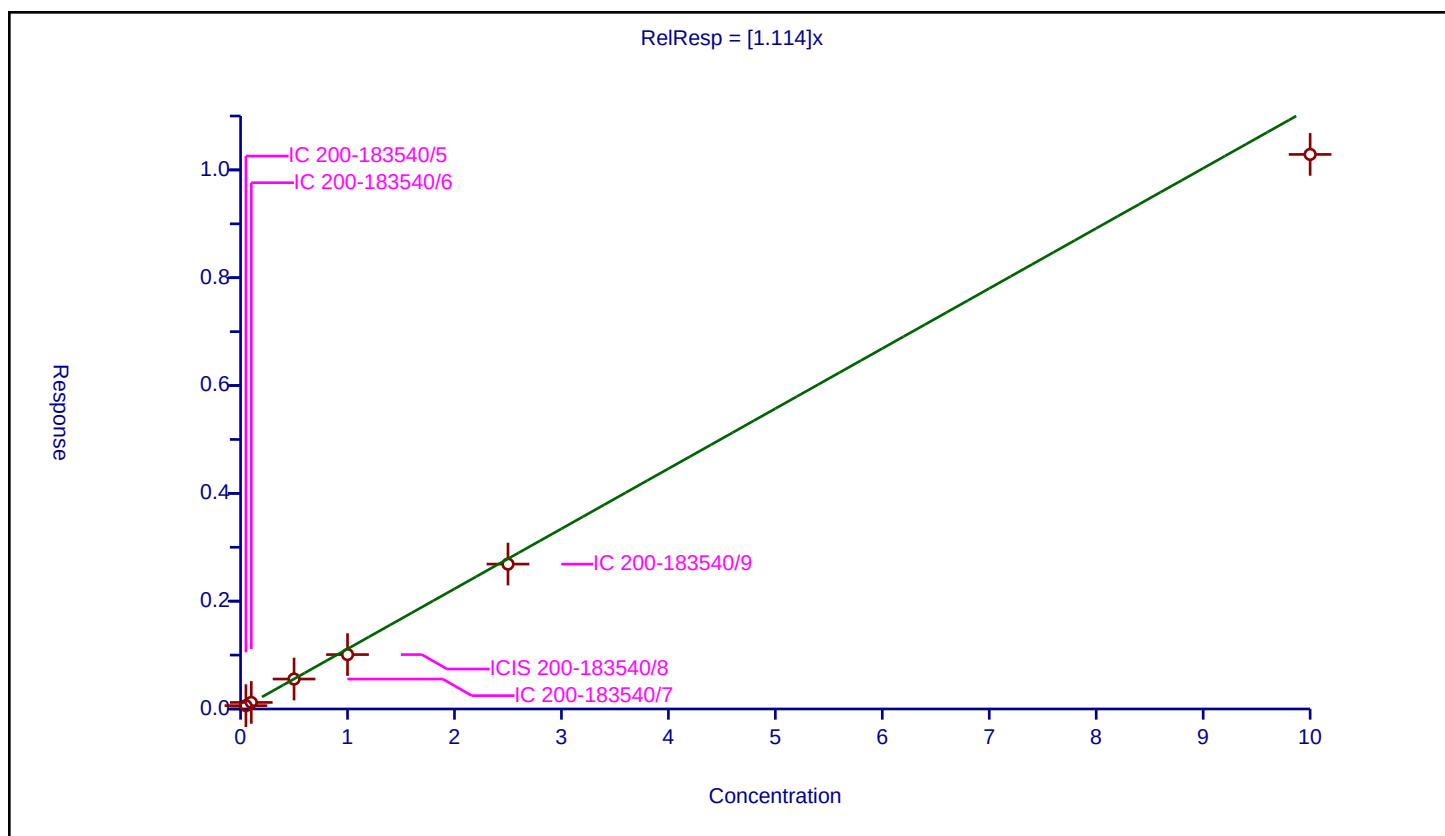
Curve Coefficients

Intercept: 0
Slope: 1.114

Error Coefficients

Standard Error: 5130000
Relative Standard Error: 8.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.062268	1.25	1328796.0	1.245357	Y
2	IC 200-183540/6	0.1	0.121686	1.25	1648873.0	1.216861	Y
3	IC 200-183540/7	0.5	0.555652	1.25	1455434.0	1.111304	Y
4	ICIS 200-183540/8	1.0	1.009476	1.25	1389781.0	1.009476	Y
5	IC 200-183540/9	2.5	2.687857	1.25	1345401.0	1.075143	Y
6	IC 200-183540/10	10.0	10.28779	1.25	1338339.0	1.028779	Y



Calibration

/ Perfluorohexanesulfonic acid

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

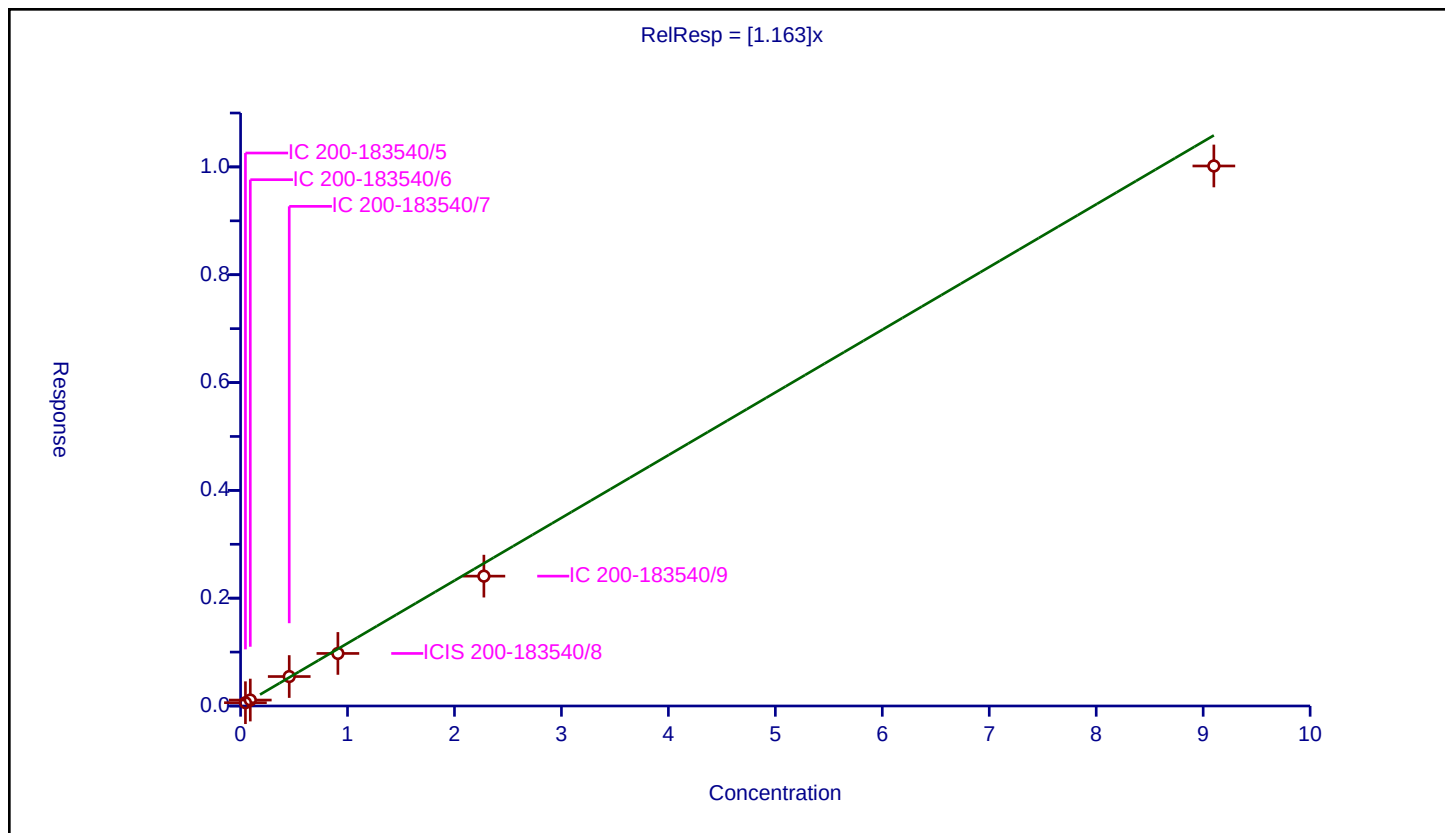
Curve Coefficients

Intercept: 0
 Slope: 1.163

Error Coefficients

Standard Error: 3560000
 Relative Standard Error: 9.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0455	0.060978	1.1825	906294.0	1.340179	Y
2	IC 200-183540/6	0.091	0.109865	1.1825	1176053.0	1.207308	Y
3	IC 200-183540/7	0.455	0.54639	1.1825	964013.0	1.200857	Y
4	ICIS 200-183540/8	0.91	0.975012	1.1825	955365.0	1.071441	Y
5	IC 200-183540/9	2.275	2.409083	1.1825	925652.0	1.058938	Y
6	IC 200-183540/10	9.1	10.017314	1.1825	906172.0	1.100804	Y



Calibration

/ DONA

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

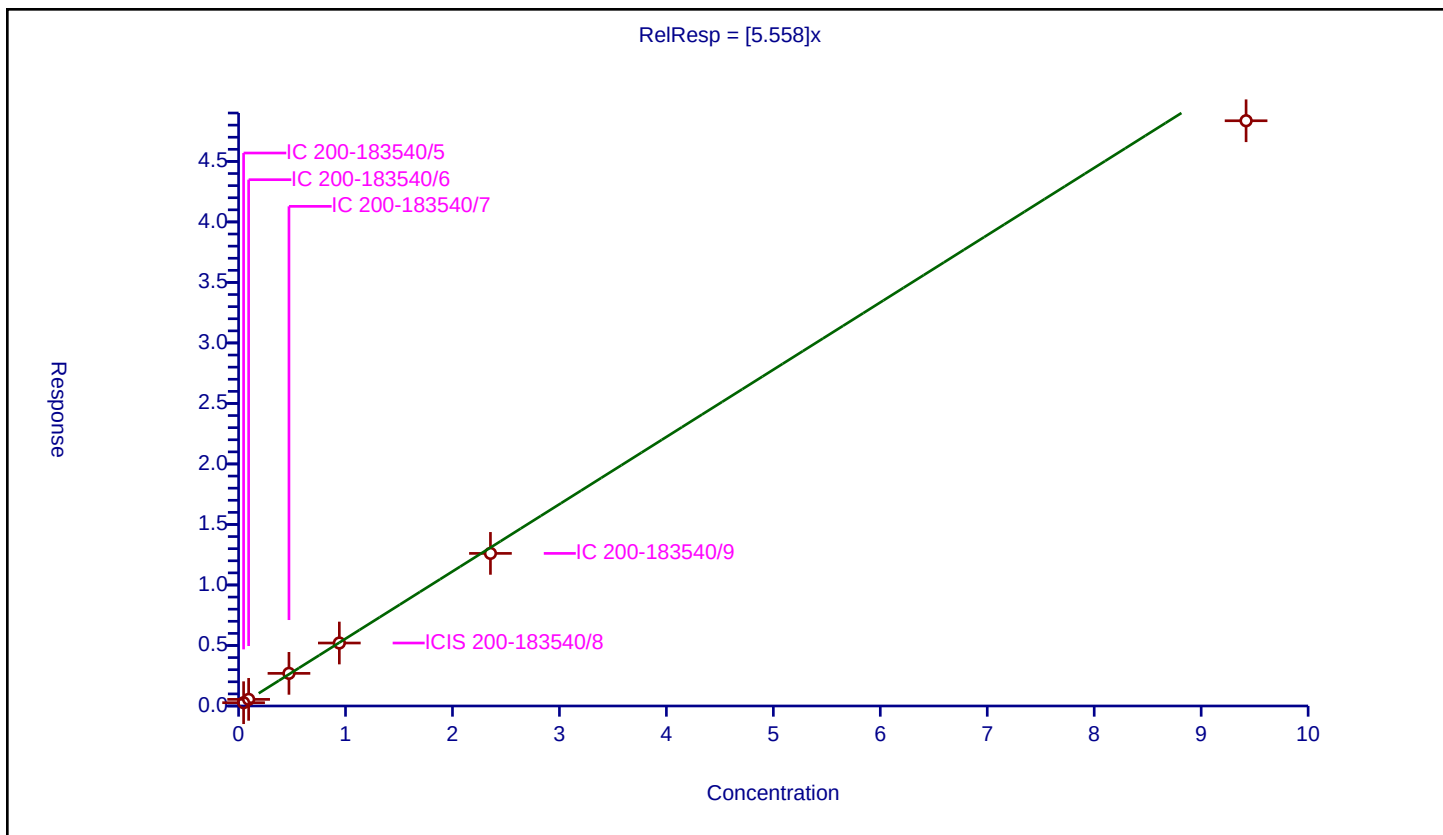
Curve Coefficients

Intercept: 0
Slope: 5.558

Error Coefficients

Standard Error: 11300000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0471	0.273199	1.195	634179.0	5.800404	Y
2	IC 200-183540/6	0.0942	0.547386	1.195	779606.0	5.81089	Y
3	IC 200-183540/7	0.471	2.696653	1.195	651103.0	5.725379	Y
4	ICIS 200-183540/8	0.942	5.204445	1.195	613698.0	5.524889	Y
5	IC 200-183540/9	2.355	12.610597	1.195	609259.0	5.354818	Y
6	IC 200-183540/10	9.42	48.361225	1.195	597271.0	5.133888	Y



Calibration

/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

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

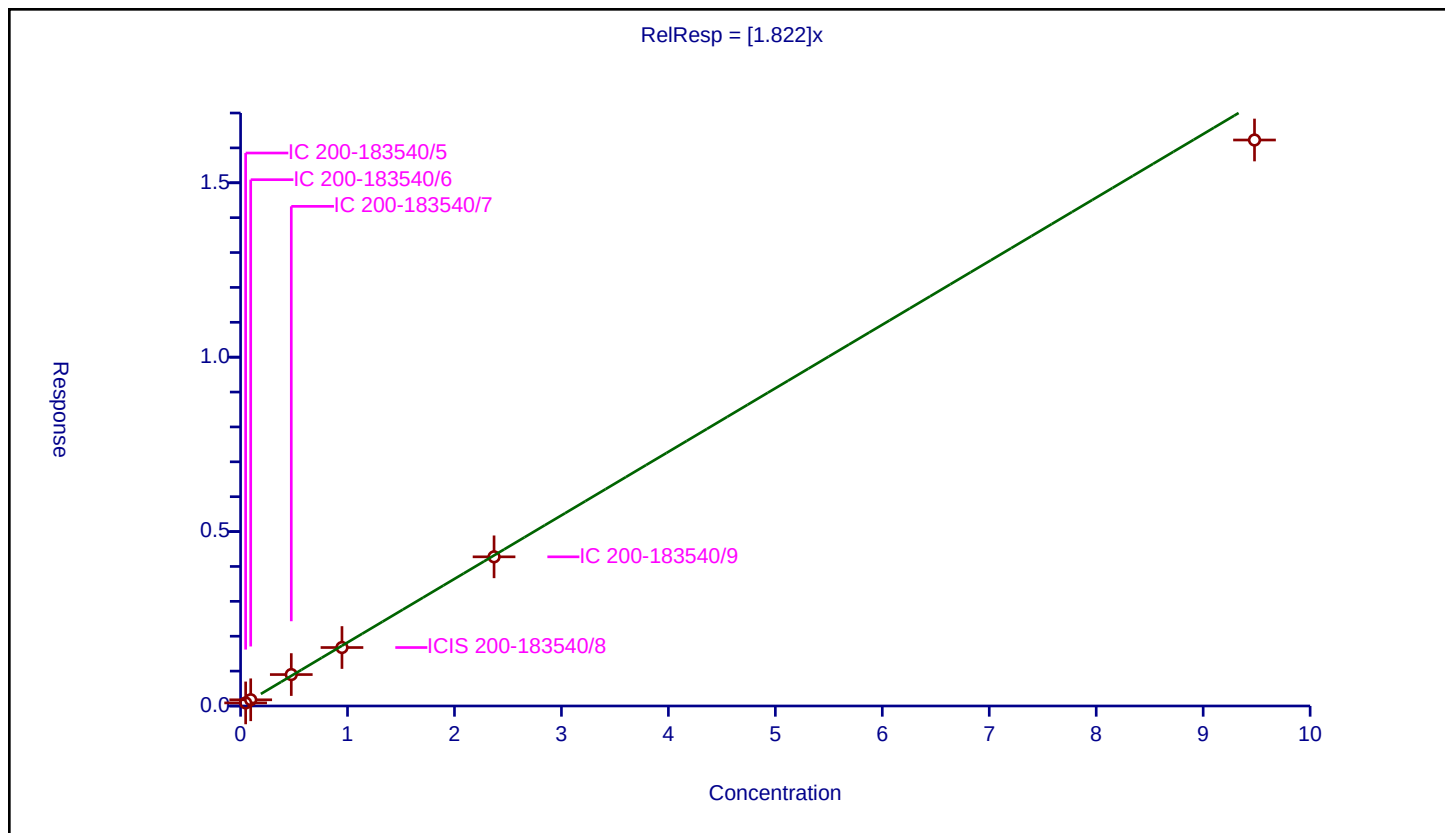
Curve Coefficients

Intercept: 0
 Slope: 1.822

Error Coefficients

Standard Error: 953000
 Relative Standard Error: 4.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0474	0.088659	1.1875	163969.0	1.870449	Y
2	IC 200-183540/6	0.0948	0.177831	1.1875	209346.0	1.87585	Y
3	IC 200-183540/7	0.474	0.90067	1.1875	163935.0	1.900148	Y
4	ICIS 200-183540/8	0.948	1.676271	1.1875	162008.0	1.768219	Y
5	IC 200-183540/9	2.37	4.276589	1.1875	153476.0	1.804468	Y
6	IC 200-183540/10	9.48	16.226088	1.1875	149414.0	1.711613	Y



Calibration

/ Perfluoroheptanesulfonic acid

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

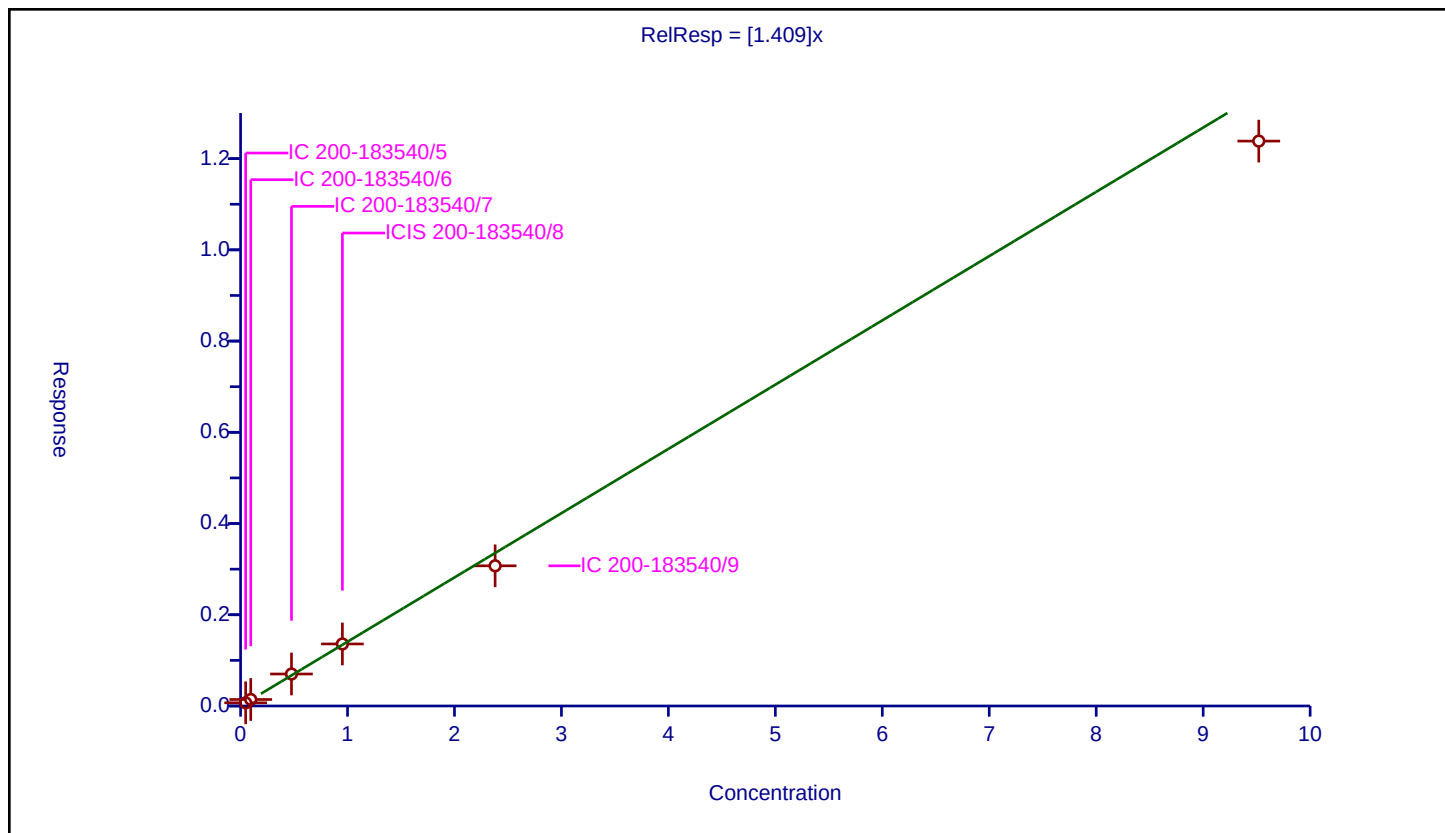
Curve Coefficients

Intercept: 0
 Slope: 1.409

Error Coefficients

Standard Error: 2880000
 Relative Standard Error: 6.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0476	0.069814	1.195	634179.0	1.466687	Y
2	IC 200-183540/6	0.0952	0.142139	1.195	779606.0	1.493056	Y
3	IC 200-183540/7	0.476	0.701148	1.195	651103.0	1.473001	Y
4	ICIS 200-183540/8	0.952	1.3601	1.195	613698.0	1.428677	Y
5	IC 200-183540/9	2.38	3.073306	1.195	609259.0	1.291305	Y
6	IC 200-183540/10	9.52	12.384619	1.195	597271.0	1.300905	Y



Calibration

/ Perfluorooctanoic acid

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

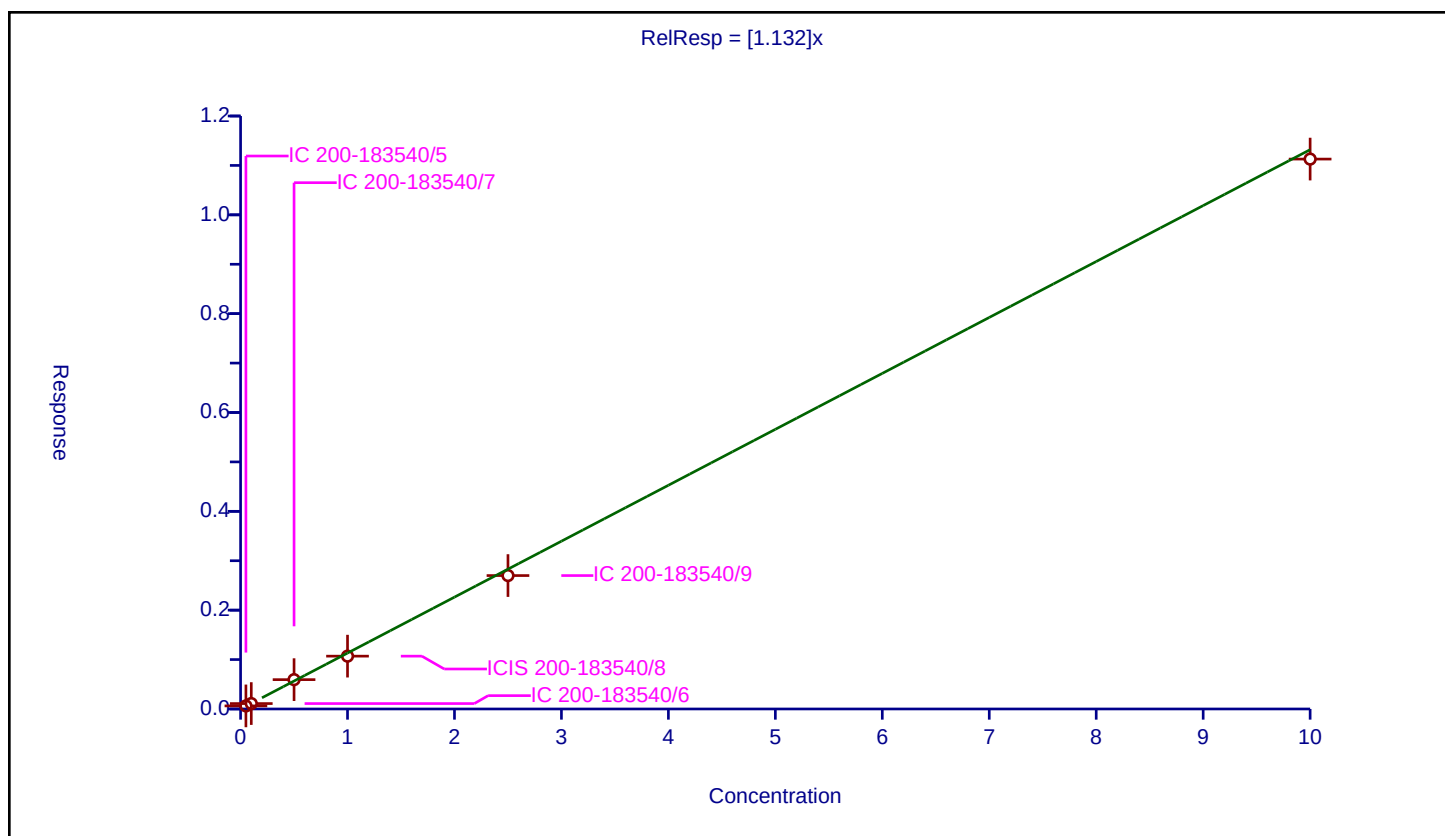
Curve Coefficients

Intercept: 0
Slope: 1.132

Error Coefficients

Standard Error: 5570000
Relative Standard Error: 6.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.062232	1.25	1493236.0	1.244646	Y
2	IC 200-183540/6	0.1	0.109667	1.25	1881802.0	1.096668	Y
3	IC 200-183540/7	0.5	0.593859	1.25	1486584.0	1.187718	Y
4	ICIS 200-183540/8	1.0	1.069374	1.25	1468592.0	1.069374	Y
5	IC 200-183540/9	2.5	2.700262	1.25	1446878.0	1.080105	Y
6	IC 200-183540/10	10.0	11.128569	1.25	1343616.0	1.112857	Y



Calibration

/ Perfluorooctanesulfonic acid

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

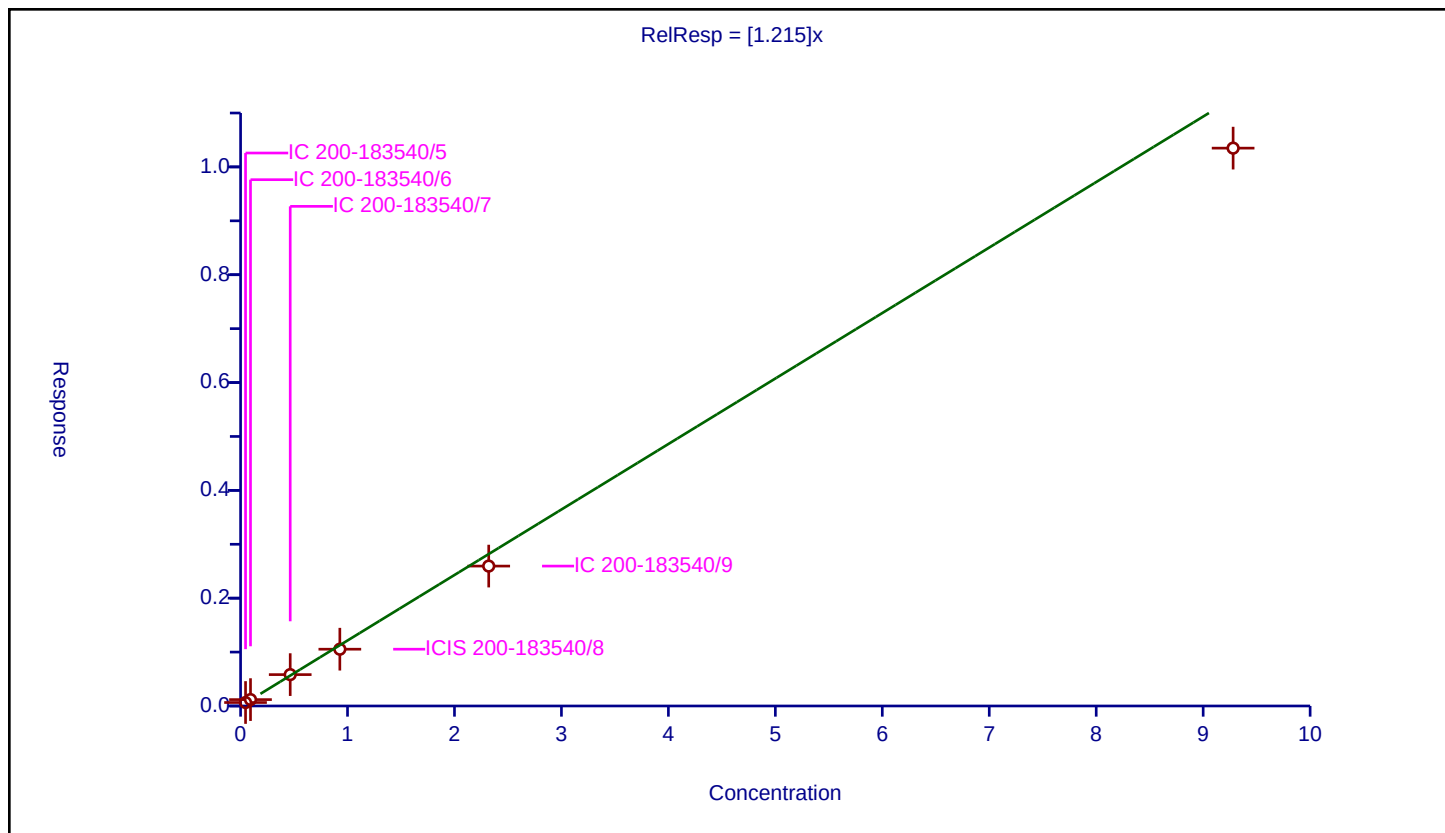
Curve Coefficients

Intercept: 0
 Slope: 1.215

Error Coefficients

Standard Error: 2400000
 Relative Standard Error: 9.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0464	0.064395	1.195	634179.0	1.387822	Y
2	IC 200-183540/6	0.0928	0.118642	1.195	779606.0	1.278472	Y
3	IC 200-183540/7	0.464	0.582012	1.195	651103.0	1.254337	Y
4	ICIS 200-183540/8	0.928	1.053414	1.195	613698.0	1.135145	Y
5	IC 200-183540/9	2.32	2.595337	1.195	609259.0	1.11868	Y
6	IC 200-183540/10	9.28	10.348582	1.195	597271.0	1.115149	Y



Calibration

/ Perfluorononanoic acid

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

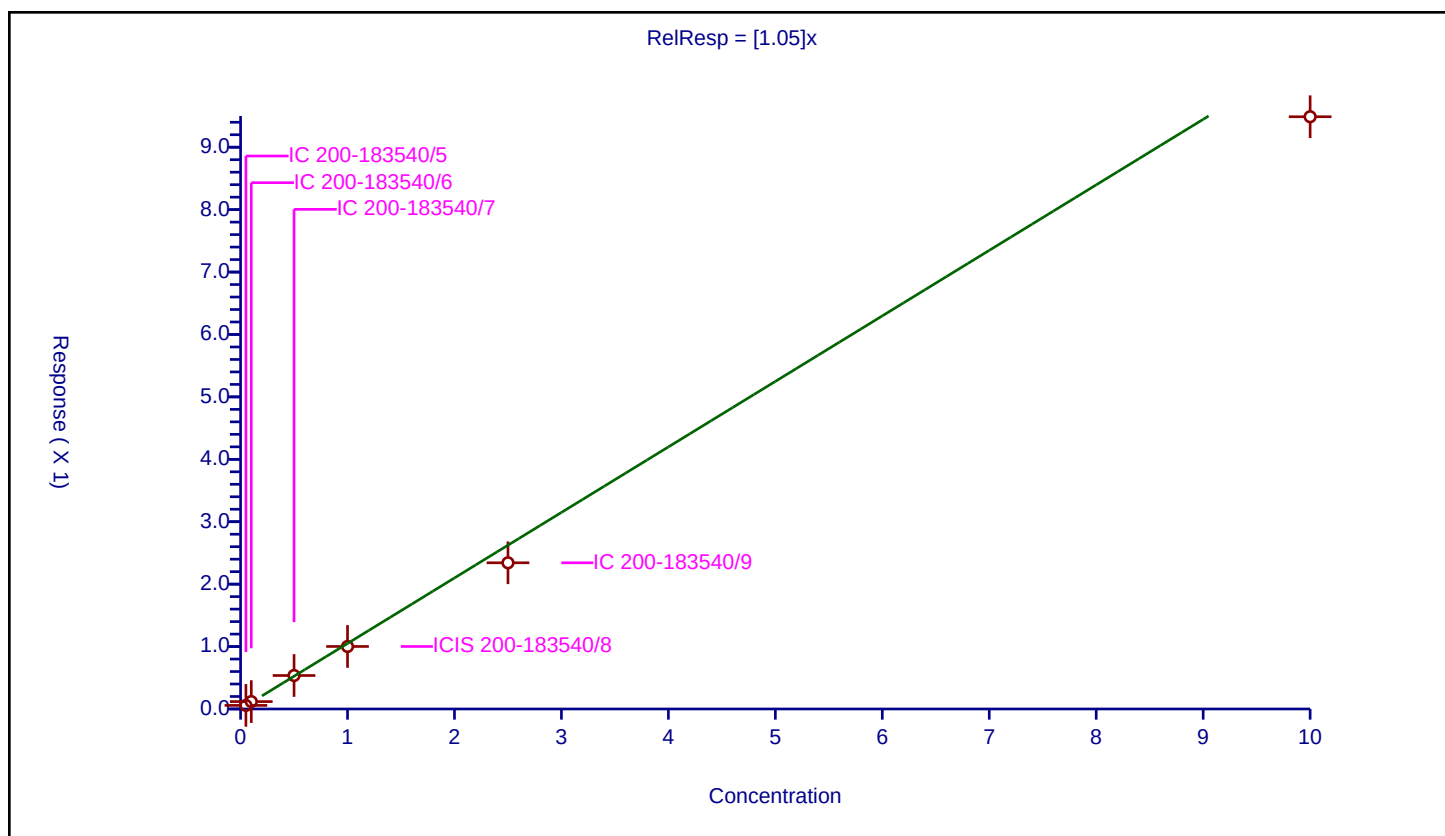
Curve Coefficients

Intercept: 0
 Slope: 1.05

Error Coefficients

Standard Error: 4940000
 Relative Standard Error: 10.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.057526	1.25	1481275.0	1.150512	Y
2	IC 200-183540/6	0.1	0.118713	1.25	1735041.0	1.187126	Y
3	IC 200-183540/7	0.5	0.536413	1.25	1431589.0	1.072825	Y
4	ICIS 200-183540/8	1.0	1.001565	1.25	1405937.0	1.001565	Y
5	IC 200-183540/9	2.5	2.342319	1.25	1497719.0	0.936927	Y
6	IC 200-183540/10	10.0	9.488643	1.25	1396216.0	0.948864	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

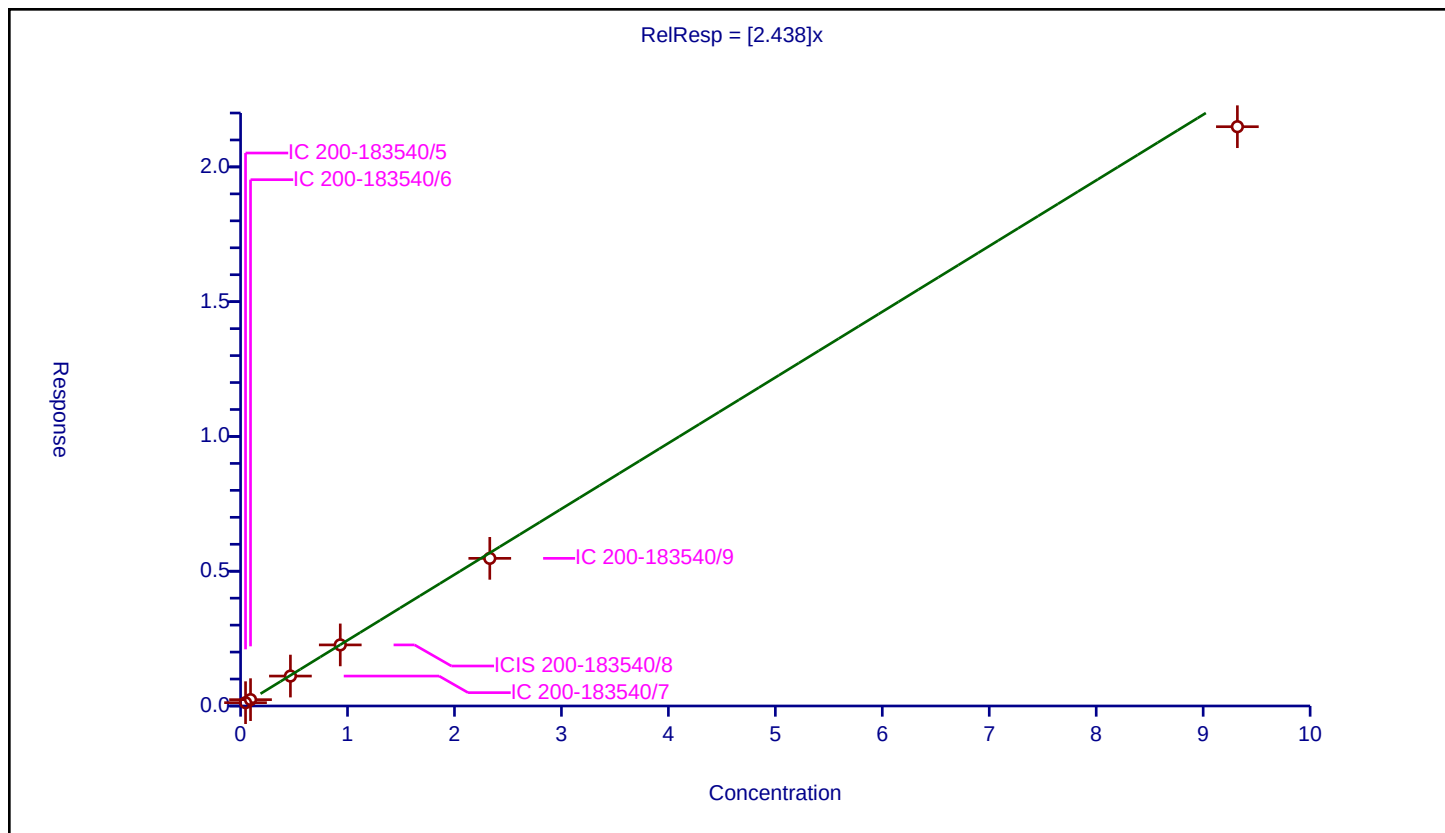
Curve Coefficients

Intercept: 0
 Slope: 2.438

Error Coefficients

Standard Error: 5000000
 Relative Standard Error: 5.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0466	0.12283	1.195	634179.0	2.635832	Y
2	IC 200-183540/6	0.0932	0.234699	1.195	779606.0	2.518225	Y
3	IC 200-183540/7	0.466	1.110559	1.195	651103.0	2.383175	Y
4	ICIS 200-183540/8	0.932	2.266486	1.195	613698.0	2.431852	Y
5	IC 200-183540/9	2.33	5.477389	1.195	609259.0	2.350811	Y
6	IC 200-183540/10	9.32	21.492875	1.195	597271.0	2.306103	Y



Calibration

/ Perfluorononanesulfonic acid

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

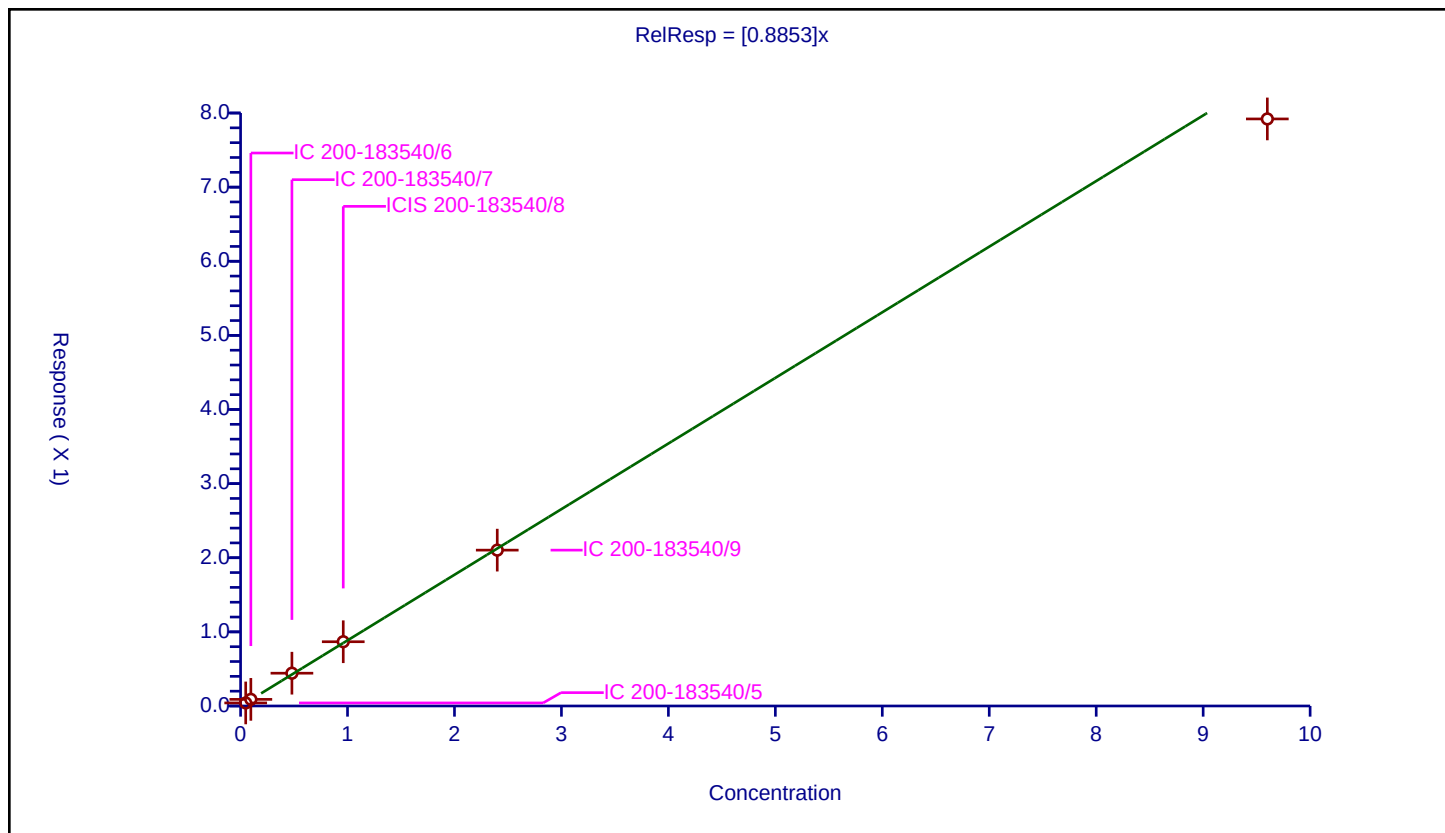
Curve Coefficients

Intercept: 0
 Slope: 0.8853

Error Coefficients

Standard Error: 1850000
 Relative Standard Error: 4.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.048	0.041071	1.195	634179.0	0.855641	Y
2	IC 200-183540/6	0.096	0.089333	1.195	779606.0	0.930553	Y
3	IC 200-183540/7	0.48	0.442253	1.195	651103.0	0.92136	Y
4	ICIS 200-183540/8	0.96	0.866881	1.195	613698.0	0.903001	Y
5	IC 200-183540/9	2.4	2.1025	1.195	609259.0	0.876042	Y
6	IC 200-183540/10	9.6	7.920009	1.195	597271.0	0.825001	Y



Calibration

/ Perfluorodecanoic acid

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

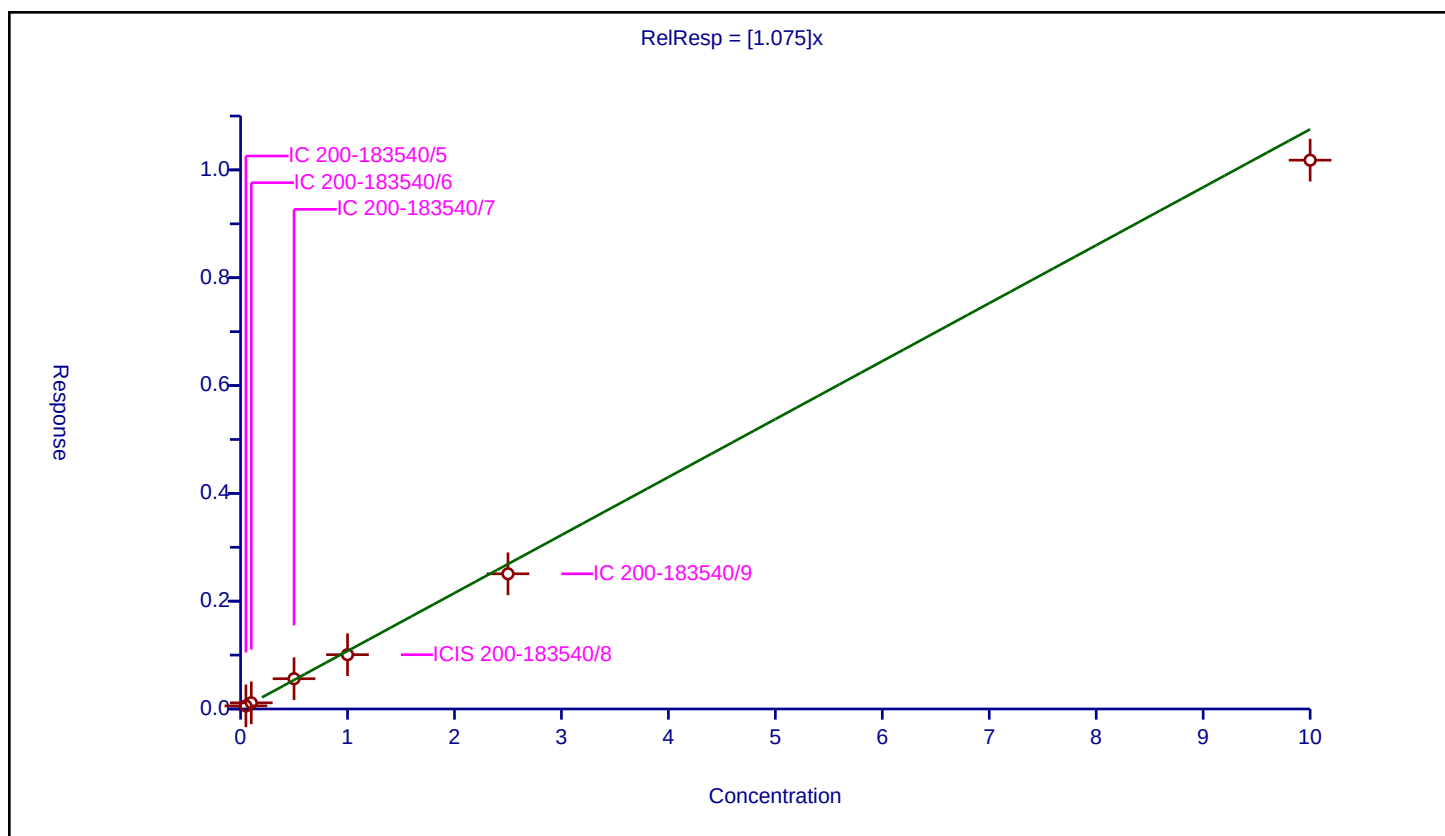
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Standard Error: 4880000
Relative Standard Error: 6.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.057839	1.25	1416448.0	1.156784	Y
2	IC 200-183540/6	0.1	0.114426	1.25	1729780.0	1.144264	Y
3	IC 200-183540/7	0.5	0.561286	1.25	1399706.0	1.122571	Y
4	ICIS 200-183540/8	1.0	1.007391	1.25	1418378.0	1.007391	Y
5	IC 200-183540/9	2.5	2.507859	1.25	1462783.0	1.003144	Y
6	IC 200-183540/10	10.0	10.18058	1.25	1279123.0	1.018058	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

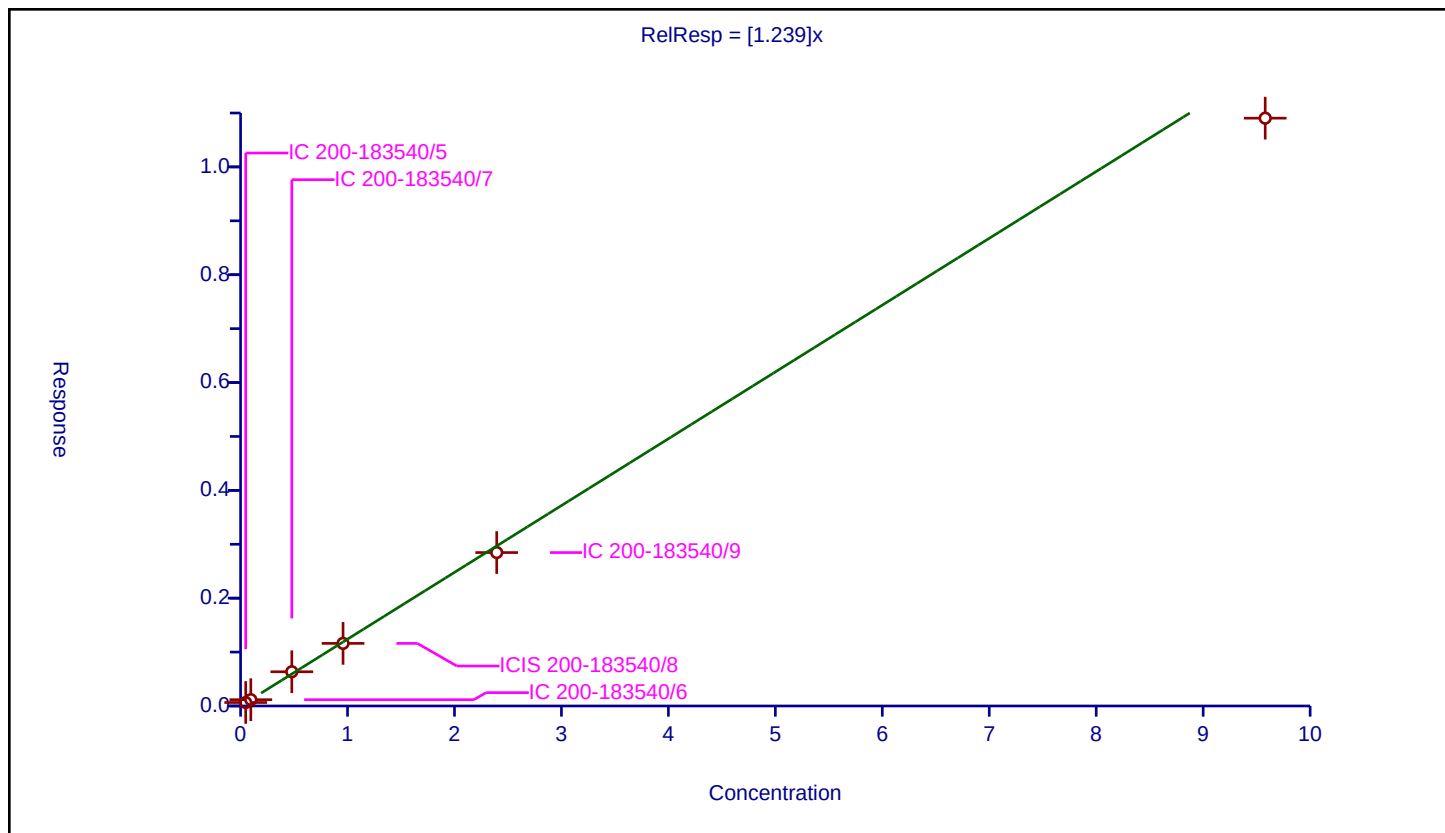
Curve Coefficients

Intercept: 0
 Slope: 1.239

Error Coefficients

Standard Error: 789000
 Relative Standard Error: 6.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0479	0.064715	1.1975	190335.0	1.351039	Y
2	IC 200-183540/6	0.0958	0.116943	1.1975	245730.0	1.2207	Y
3	IC 200-183540/7	0.479	0.635138	1.1975	187861.0	1.325967	Y
4	ICIS 200-183540/8	0.958	1.161175	1.1975	192985.0	1.212083	Y
5	IC 200-183540/9	2.395	2.846158	1.1975	191116.0	1.188375	Y
6	IC 200-183540/10	9.58	10.904585	1.1975	185620.0	1.138266	Y



Calibration

/ Perfluorooctanesulfonamide

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

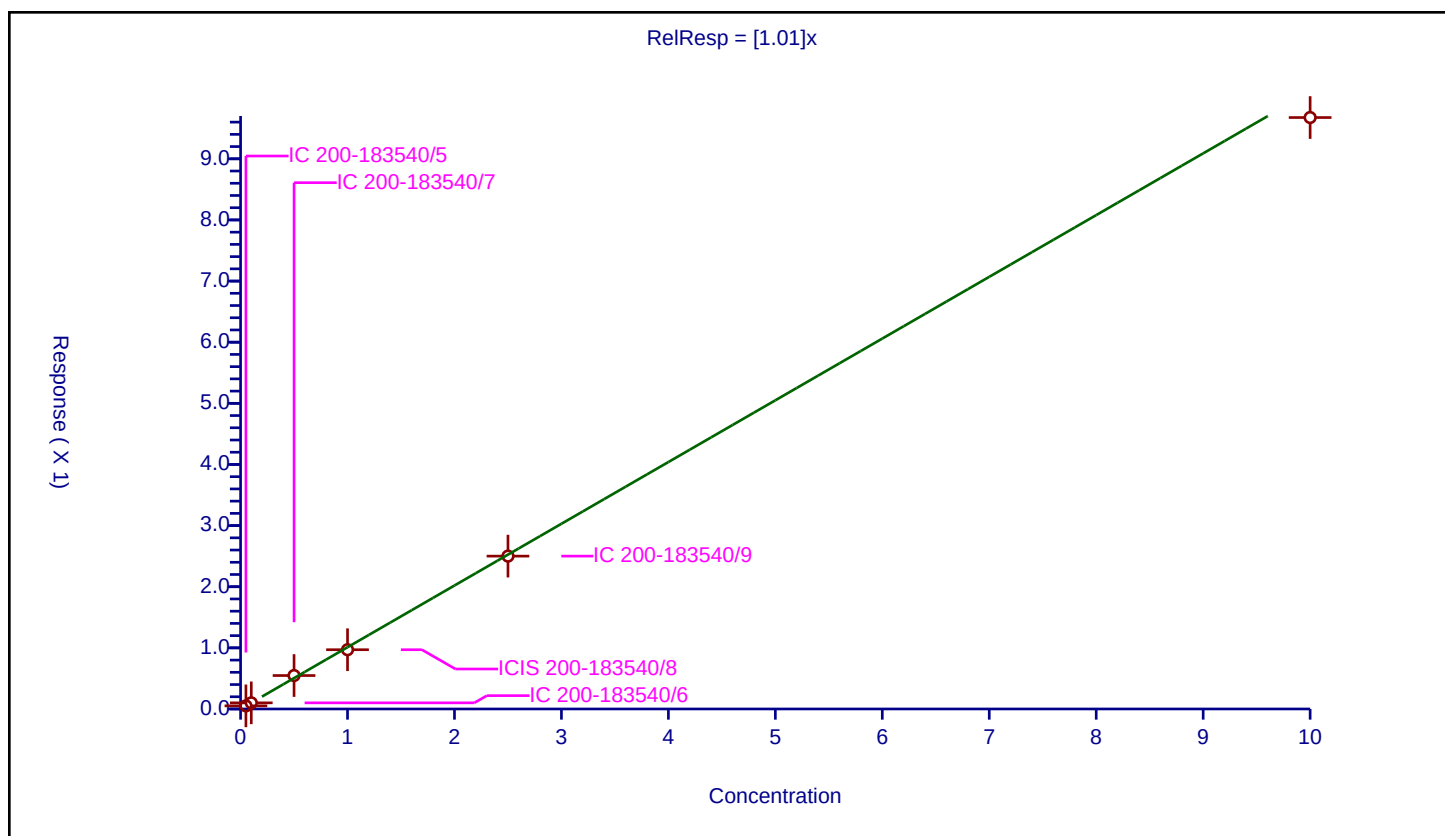
Curve Coefficients

Intercept: 0
Slope: 1.01

Error Coefficients

Standard Error: 3970000
Relative Standard Error: 4.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.051199	1.25	1161565.0	1.023985	Y
2	IC 200-183540/6	0.1	0.100347	1.25	1401468.0	1.003466	Y
3	IC 200-183540/7	0.5	0.547299	1.25	1128680.0	1.094597	Y
4	ICIS 200-183540/8	1.0	0.969471	1.25	1165740.0	0.969471	Y
5	IC 200-183540/9	2.5	2.500669	1.25	1128734.0	1.000268	Y
6	IC 200-183540/10	10.0	9.675076	1.25	1100399.0	0.967508	Y



Calibration

/ N-methylperfluorooctanesulfonamidoacetic acid

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

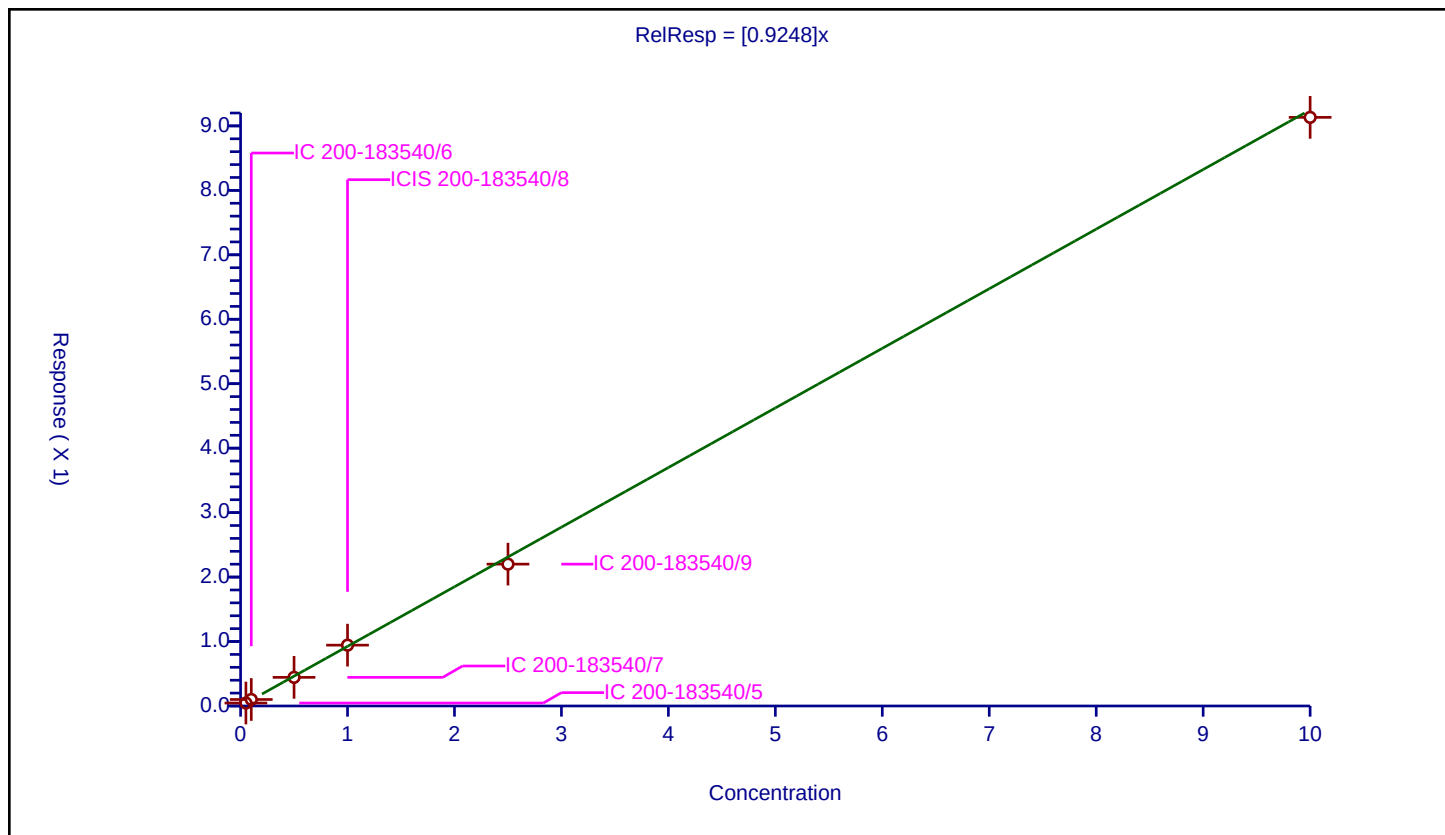
Curve Coefficients

Intercept: 0
 Slope: 0.9248

Error Coefficients

Standard Error: 640000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.045844	1.25	193156.0	0.916875	Y
2	IC 200-183540/6	0.1	0.100596	1.25	241895.0	1.005963	Y
3	IC 200-183540/7	0.5	0.444275	1.25	210264.0	0.88855	Y
4	ICIS 200-183540/8	1.0	0.943833	1.25	194922.0	0.943833	Y
5	IC 200-183540/9	2.5	2.200761	1.25	196670.0	0.880305	Y
6	IC 200-183540/10	10.0	9.132699	1.25	188601.0	0.91327	Y



Calibration

/ Perfluorodecanesulfonic acid

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

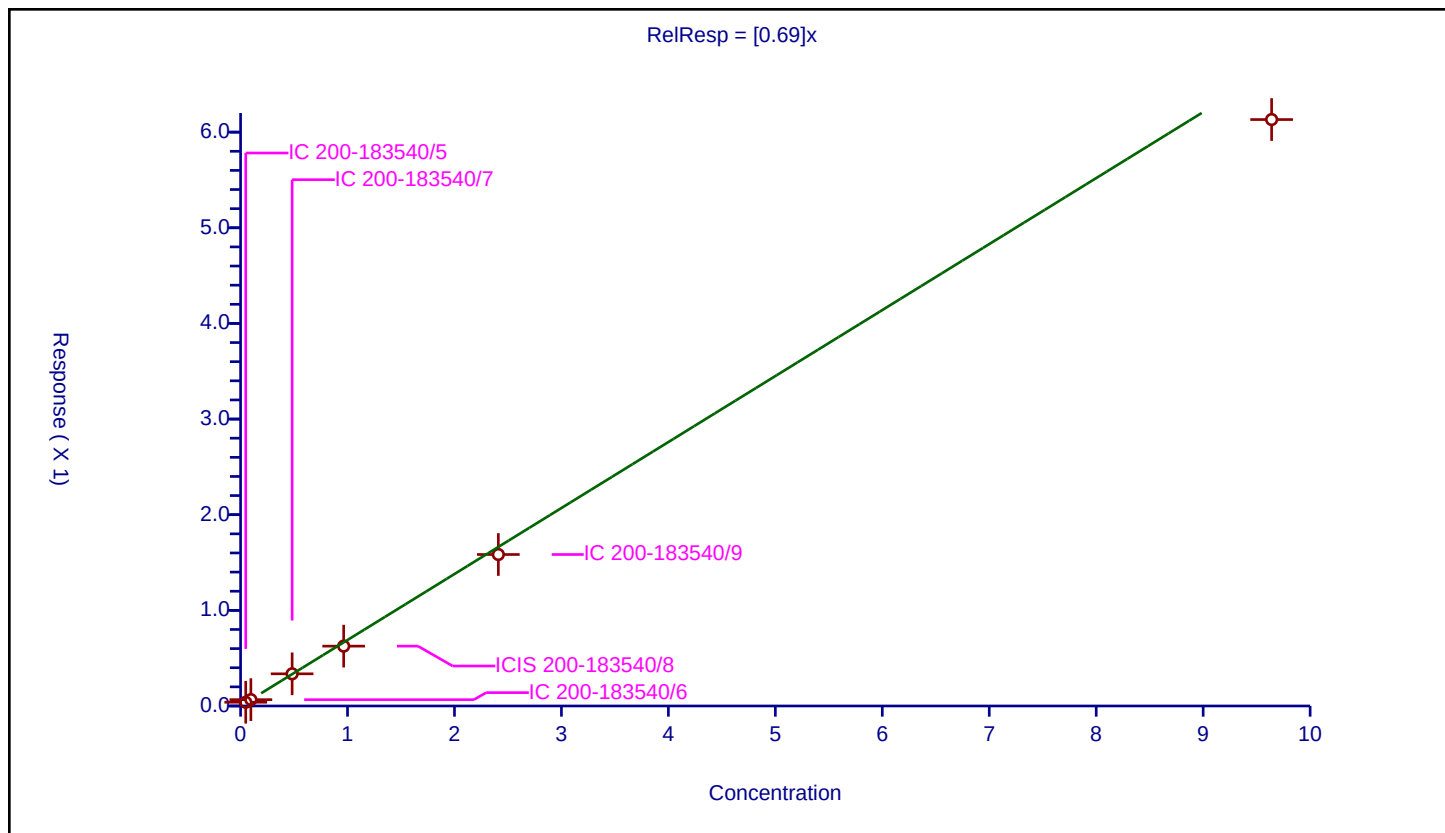
Curve Coefficients

Intercept: 0
 Slope: 0.69

Error Coefficients

Standard Error: 1430000
 Relative Standard Error: 9.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0482	0.039136	1.195	634179.0	0.811941	Y
2	IC 200-183540/6	0.0964	0.066266	1.195	779606.0	0.687402	Y
3	IC 200-183540/7	0.482	0.336493	1.195	651103.0	0.698117	Y
4	ICIS 200-183540/8	0.964	0.625676	1.195	613698.0	0.649042	Y
5	IC 200-183540/9	2.41	1.583767	1.195	609259.0	0.657165	Y
6	IC 200-183540/10	9.64	6.13174	1.195	597271.0	0.636073	Y



Calibration

/ N-ethylperfluorooctanesulfonamidoacetic acid

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

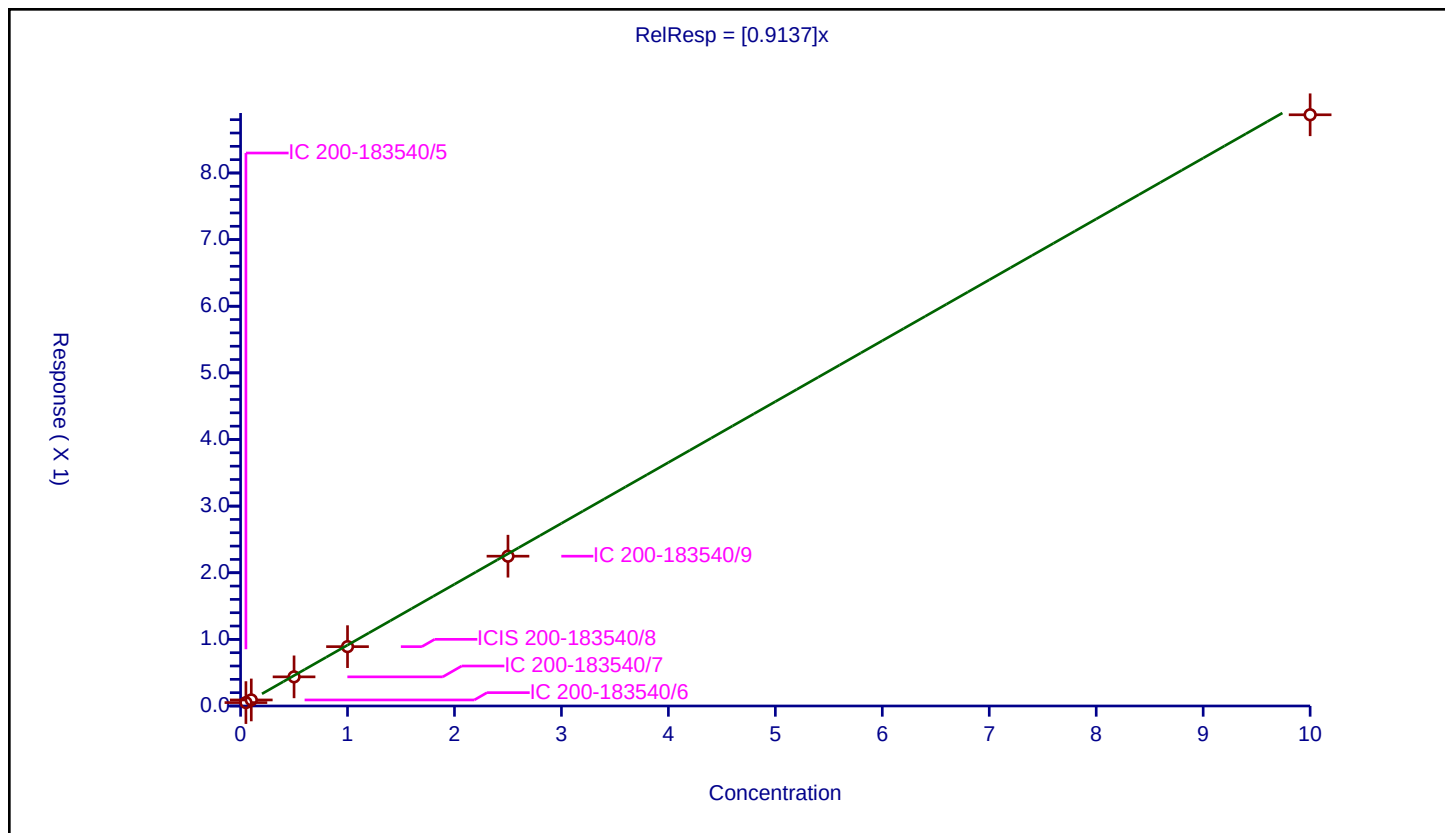
Curve Coefficients

Intercept: 0
 Slope: 0.9137

Error Coefficients

Standard Error: 603000
 Relative Standard Error: 6.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.051113	1.25	200486.0	1.022266	Y
2	IC 200-183540/6	0.1	0.090795	1.25	243668.0	0.907946	Y
3	IC 200-183540/7	0.5	0.437269	1.25	207198.0	0.874538	Y
4	ICIS 200-183540/8	1.0	0.890713	1.25	194646.0	0.890713	Y
5	IC 200-183540/9	2.5	2.248361	1.25	188668.0	0.899344	Y
6	IC 200-183540/10	10.0	8.873444	1.25	182431.0	0.887344	Y



Calibration

/ Perfluoroundecanoic acid

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

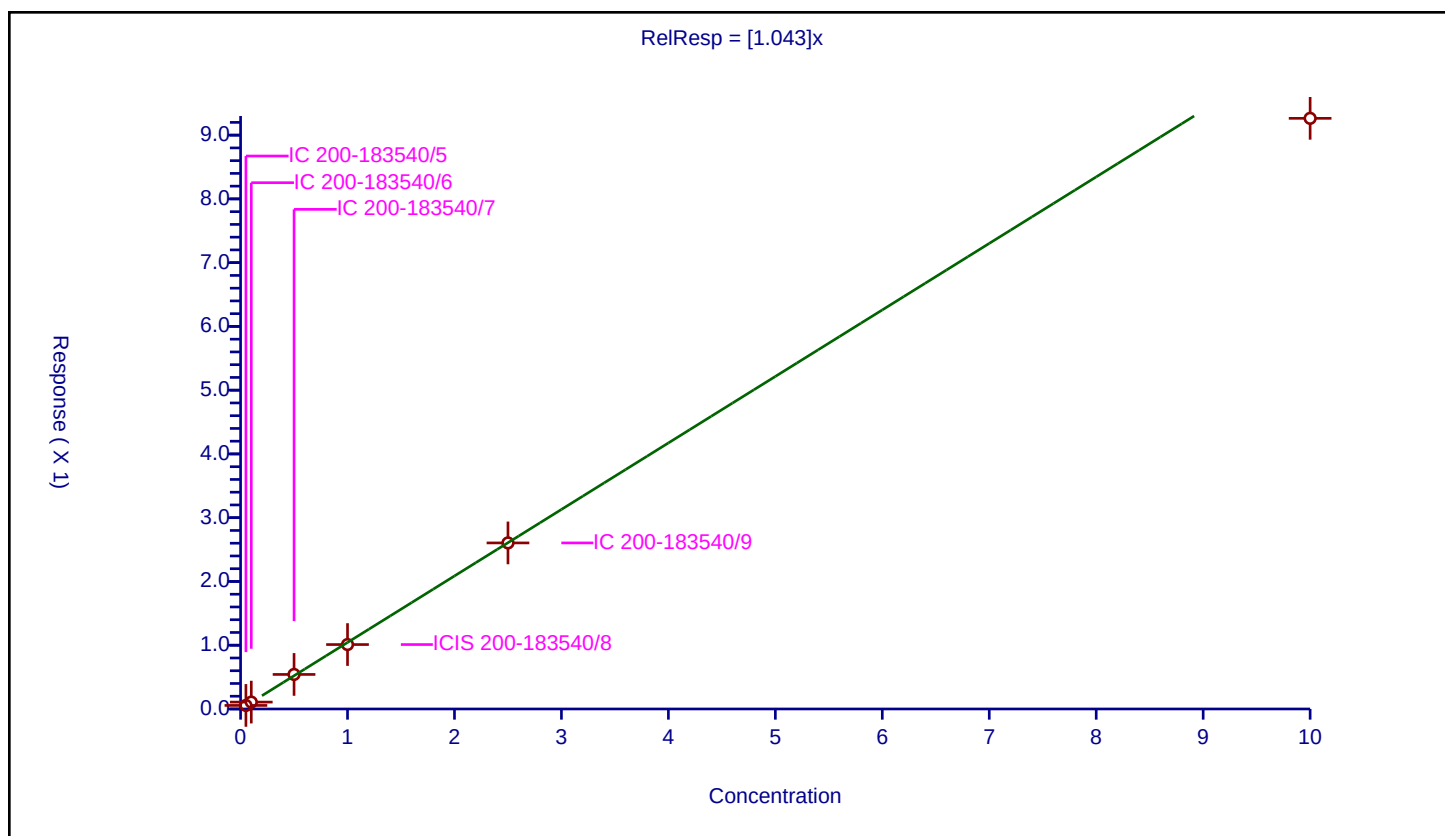
Curve Coefficients

Intercept: 0
 Slope: 1.043

Error Coefficients

Standard Error: 3790000
 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 200-183540/5	0.05	0.055776	1.25	1165669.0	1.115518	Y
2	IC 200-183540/6	0.1	0.108124	1.25	1427912.0	1.081238	Y
3	IC 200-183540/7	0.5	0.541656	1.25	1168198.0	1.083312	Y
4	ICIS 200-183540/8	1.0	1.010588	1.25	1178414.0	1.010588	Y
5	IC 200-183540/9	2.5	2.604437	1.25	1096415.0	1.041775	Y
6	IC 200-183540/10	10.0	9.263624	1.25	1092116.0	0.926362	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

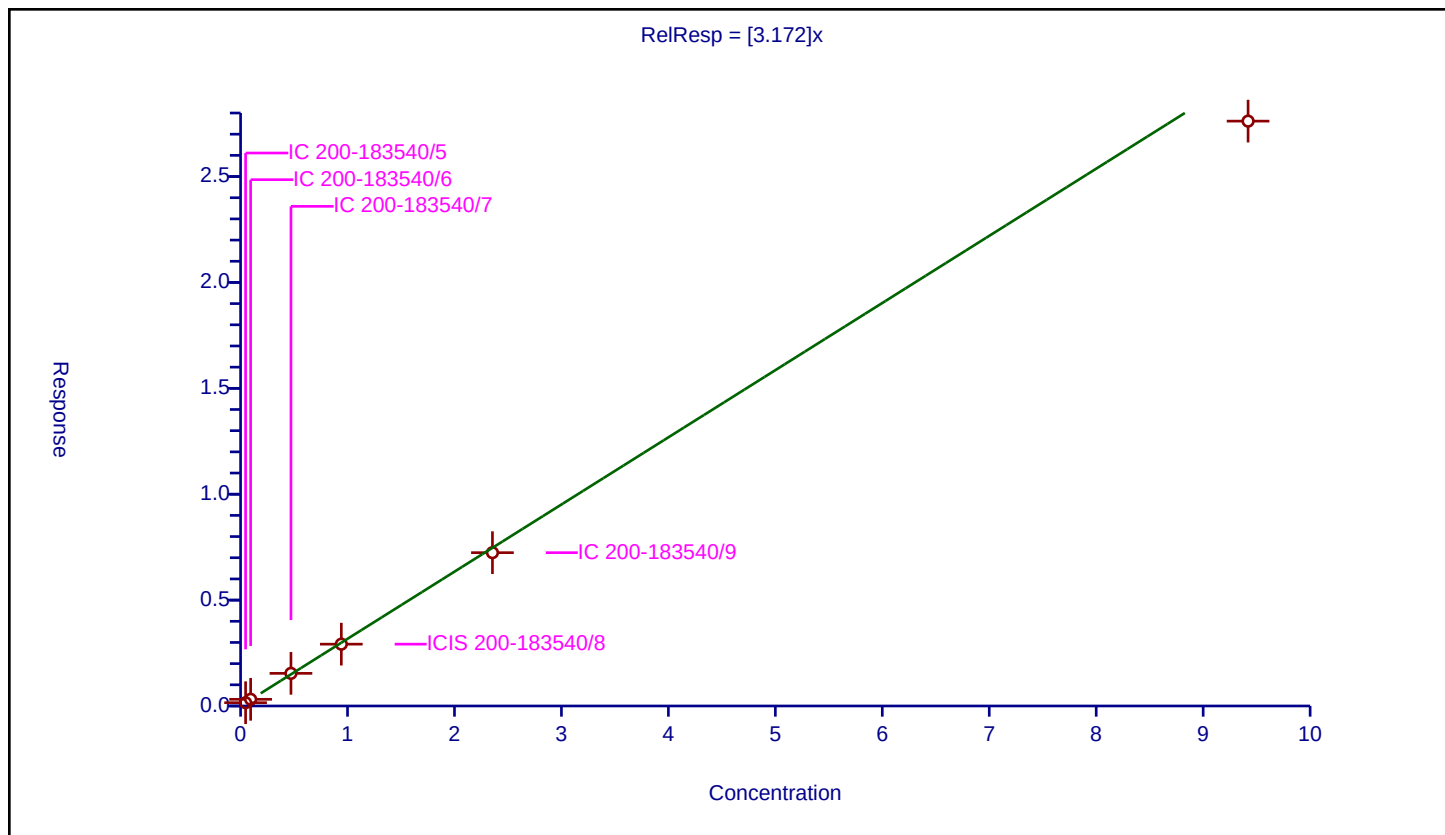
Curve Coefficients

Intercept: 0
 Slope: 3.172

Error Coefficients

Standard Error: 6440000
 Relative Standard Error: 5.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0471	0.155613	1.195	634179.0	3.303892	Y
2	IC 200-183540/6	0.0942	0.315436	1.195	779606.0	3.348573	Y
3	IC 200-183540/7	0.471	1.540576	1.195	651103.0	3.270861	Y
4	ICIS 200-183540/8	0.942	2.919988	1.195	613698.0	3.099775	Y
5	IC 200-183540/9	2.355	7.239526	1.195	609259.0	3.074109	Y
6	IC 200-183540/10	9.42	27.617687	1.195	597271.0	2.931814	Y



Calibration

/ Perfluorododecanoic acid

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

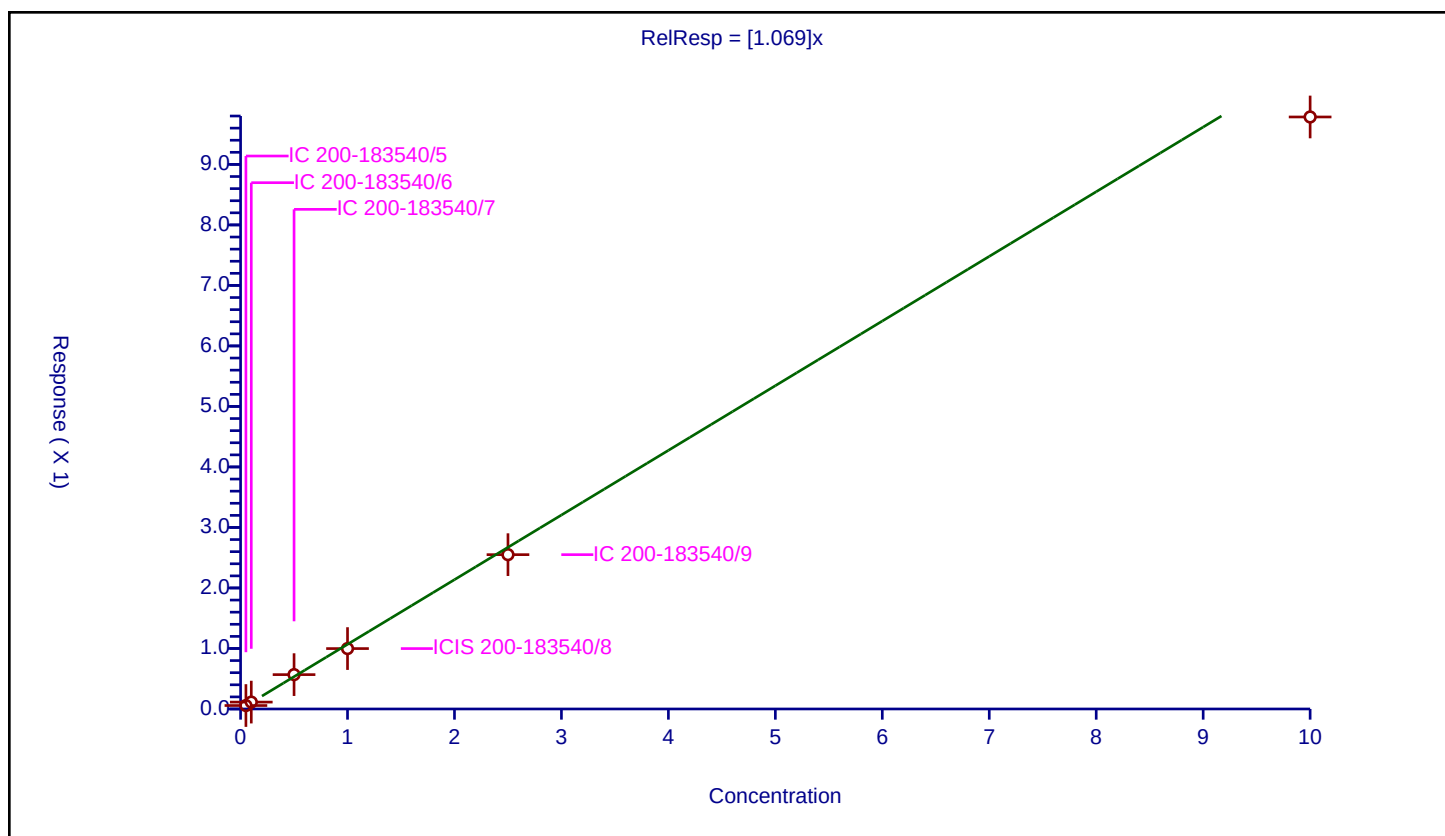
Curve Coefficients

Intercept: 0
 Slope: 1.069

Error Coefficients

Standard Error: 3960000
 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 200-183540/5	0.05	0.056959	1.25	1114491.0	1.139175	Y
2	IC 200-183540/6	0.1	0.113937	1.25	1417662.0	1.139367	Y
3	IC 200-183540/7	0.5	0.567848	1.25	1085440.0	1.135696	Y
4	ICIS 200-183540/8	1.0	0.998469	1.25	1155321.0	0.998469	Y
5	IC 200-183540/9	2.5	2.550856	1.25	1095823.0	1.020342	Y
6	IC 200-183540/10	10.0	9.784309	1.25	1085469.0	0.978431	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

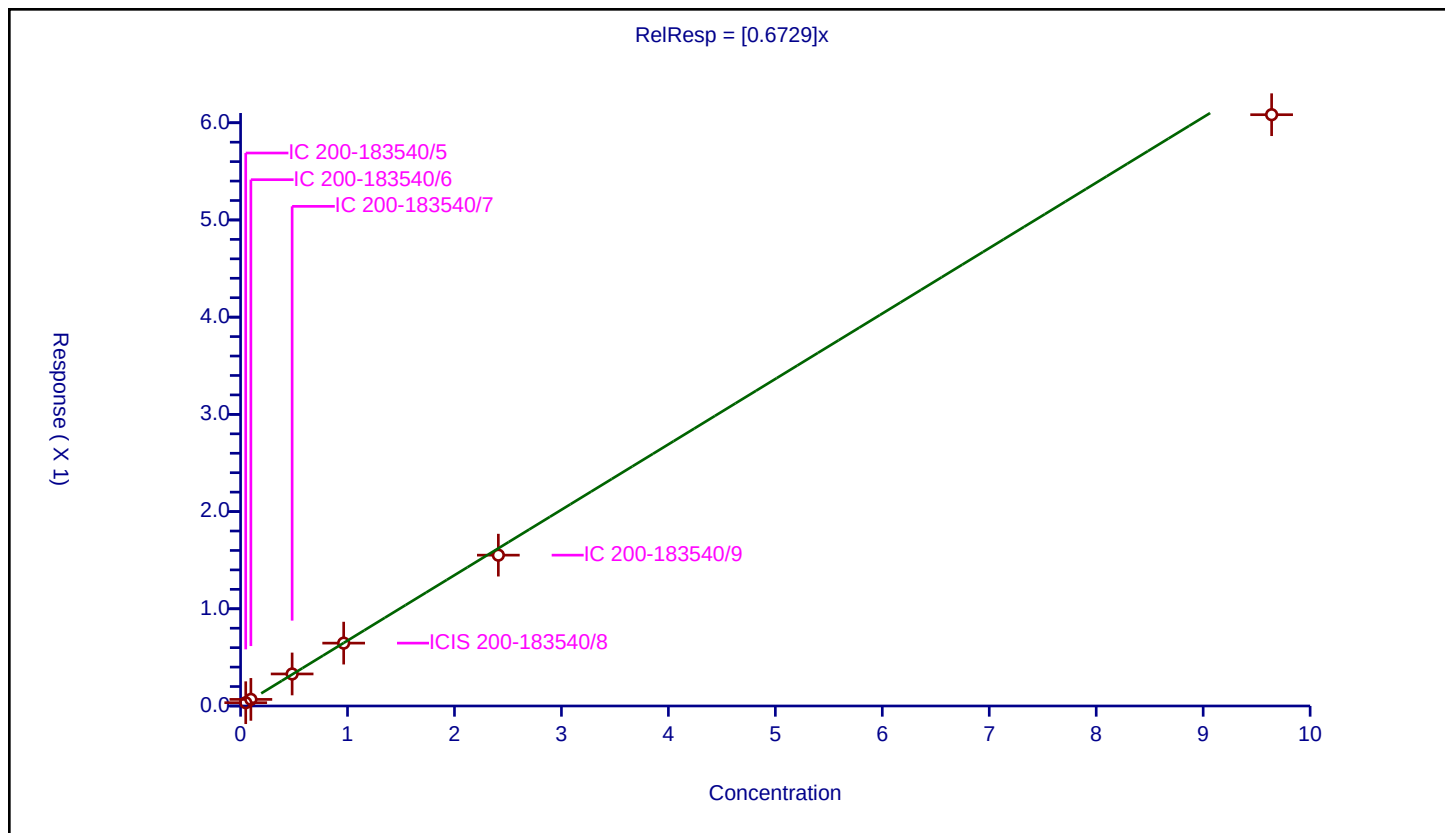
Curve Coefficients

Intercept: 0
 Slope: 0.6729

Error Coefficients

Standard Error: 439000
 Relative Standard Error: 4.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0482	0.033974	1.1975	190335.0	0.704861	Y
2	IC 200-183540/6	0.0964	0.067782	1.1975	245730.0	0.703131	Y
3	IC 200-183540/7	0.482	0.329461	1.1975	187861.0	0.683528	Y
4	ICIS 200-183540/8	0.964	0.646644	1.1975	192985.0	0.670793	Y
5	IC 200-183540/9	2.41	1.551657	1.1975	191116.0	0.643841	Y
6	IC 200-183540/10	9.64	6.082748	1.1975	185620.0	0.63099	Y



Calibration

/ Perfluorododecanesulfonic acid (PFDoS)

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

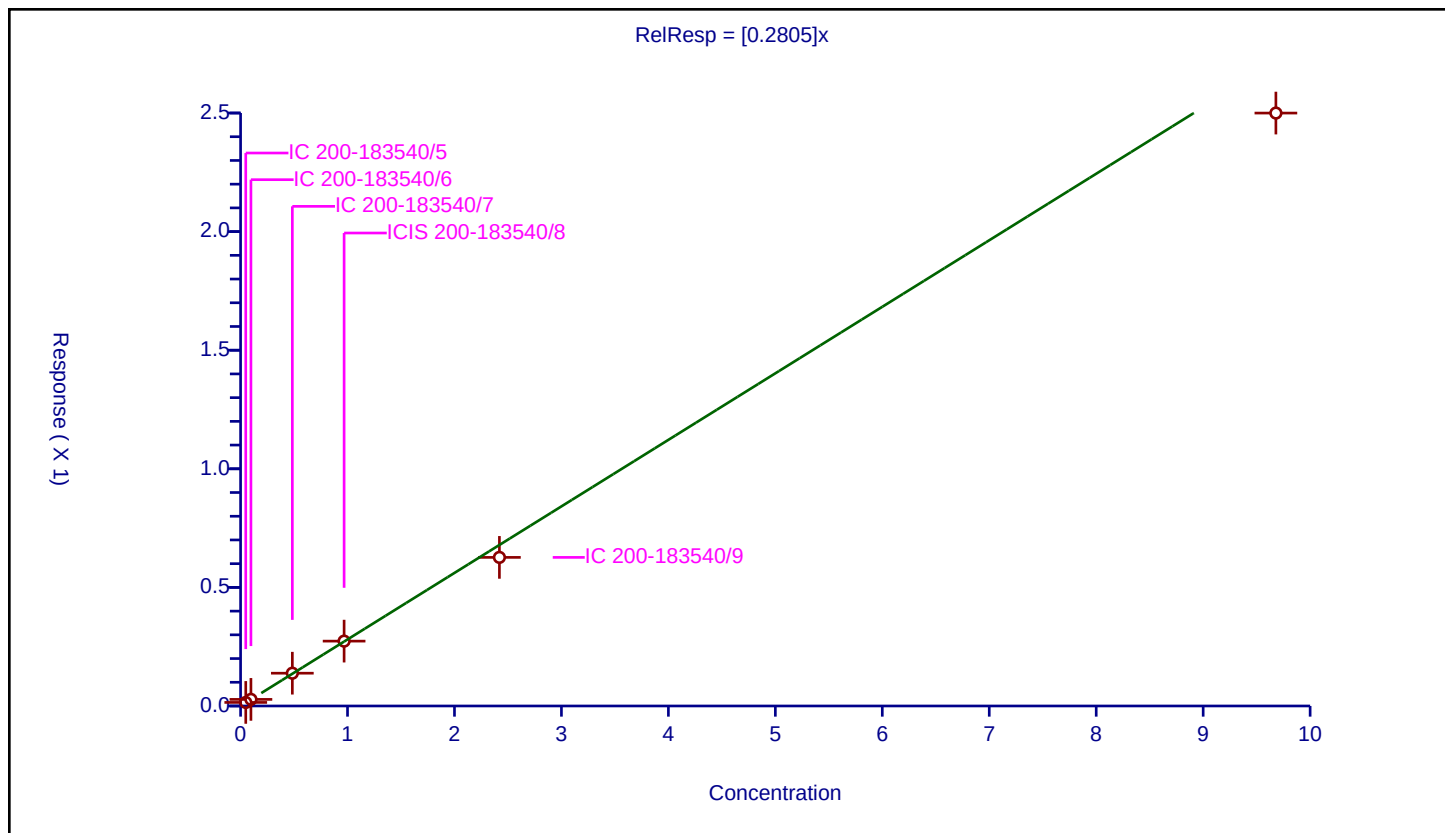
Curve Coefficients

Intercept: 0
Slope: 0.2805

Error Coefficients

Standard Error: 581000
Relative Standard Error: 7.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.0484	0.014995	1.195	634179.0	0.309824	Y
2	IC 200-183540/6	0.0968	0.027865	1.195	779606.0	0.287864	Y
3	IC 200-183540/7	0.484	0.138235	1.195	651103.0	0.285609	Y
4	ICIS 200-183540/8	0.968	0.273503	1.195	613698.0	0.282545	Y
5	IC 200-183540/9	2.42	0.626463	1.195	609259.0	0.258869	Y
6	IC 200-183540/10	9.68	2.499722	1.195	597271.0	0.258236	Y



Calibration

/ Perfluorotridecanoic acid

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

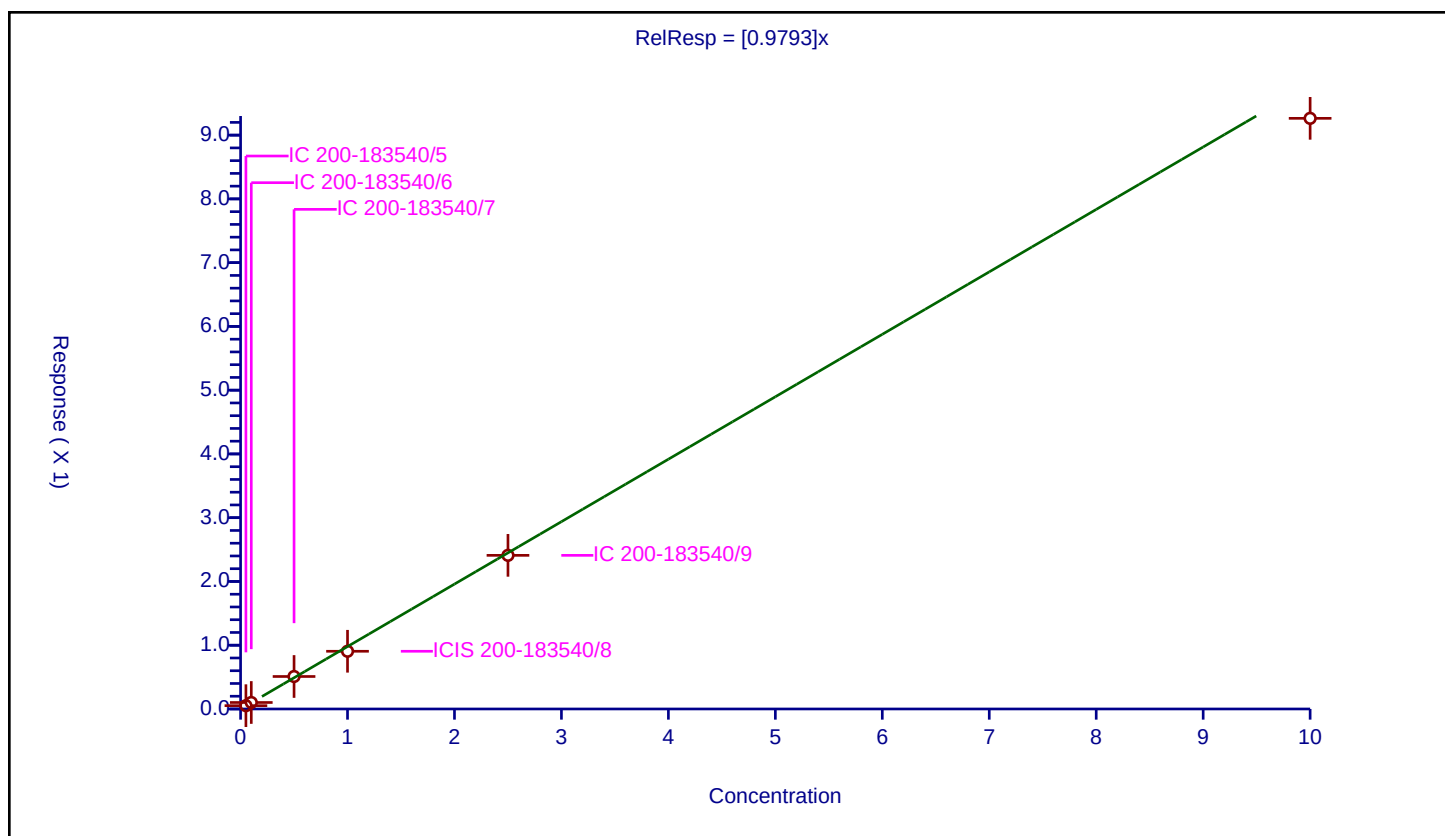
Curve Coefficients

Intercept: 0
 Slope: 0.9793

Error Coefficients

Standard Error: 3740000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.052039	1.25	1114491.0	1.040789	Y
2	IC 200-183540/6	0.1	0.102017	1.25	1417662.0	1.020174	Y
3	IC 200-183540/7	0.5	0.509739	1.25	1085440.0	1.019478	Y
4	ICIS 200-183540/8	1.0	0.905364	1.25	1155321.0	0.905364	Y
5	IC 200-183540/9	2.5	2.409755	1.25	1095823.0	0.963902	Y
6	IC 200-183540/10	10.0	9.263513	1.25	1085469.0	0.926351	Y



Calibration

/ Perfluorotetradecanoic acid

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

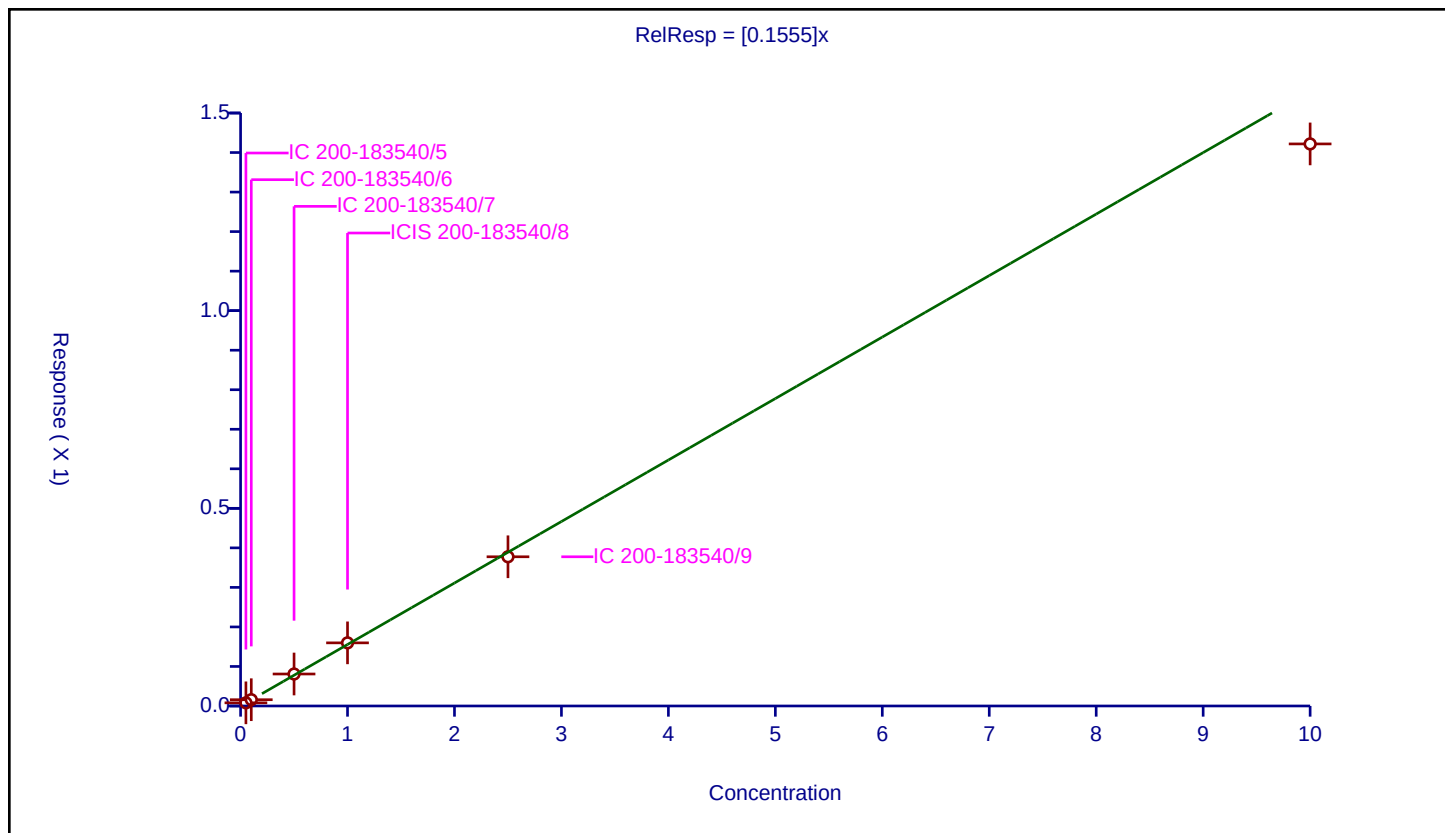
Curve Coefficients

Intercept: 0
 Slope: 0.1555

Error Coefficients

Standard Error: 499000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.008004	1.25	996873.0	0.160076	Y
2	IC 200-183540/6	0.1	0.015853	1.25	1171213.0	0.158532	Y
3	IC 200-183540/7	0.5	0.080896	1.25	961015.0	0.161792	Y
4	ICIS 200-183540/8	1.0	0.159679	1.25	935229.0	0.159679	Y
5	IC 200-183540/9	2.5	0.377462	1.25	929944.0	0.150985	Y
6	IC 200-183540/10	10.0	1.421847	1.25	941347.0	0.142185	Y



Calibration

/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

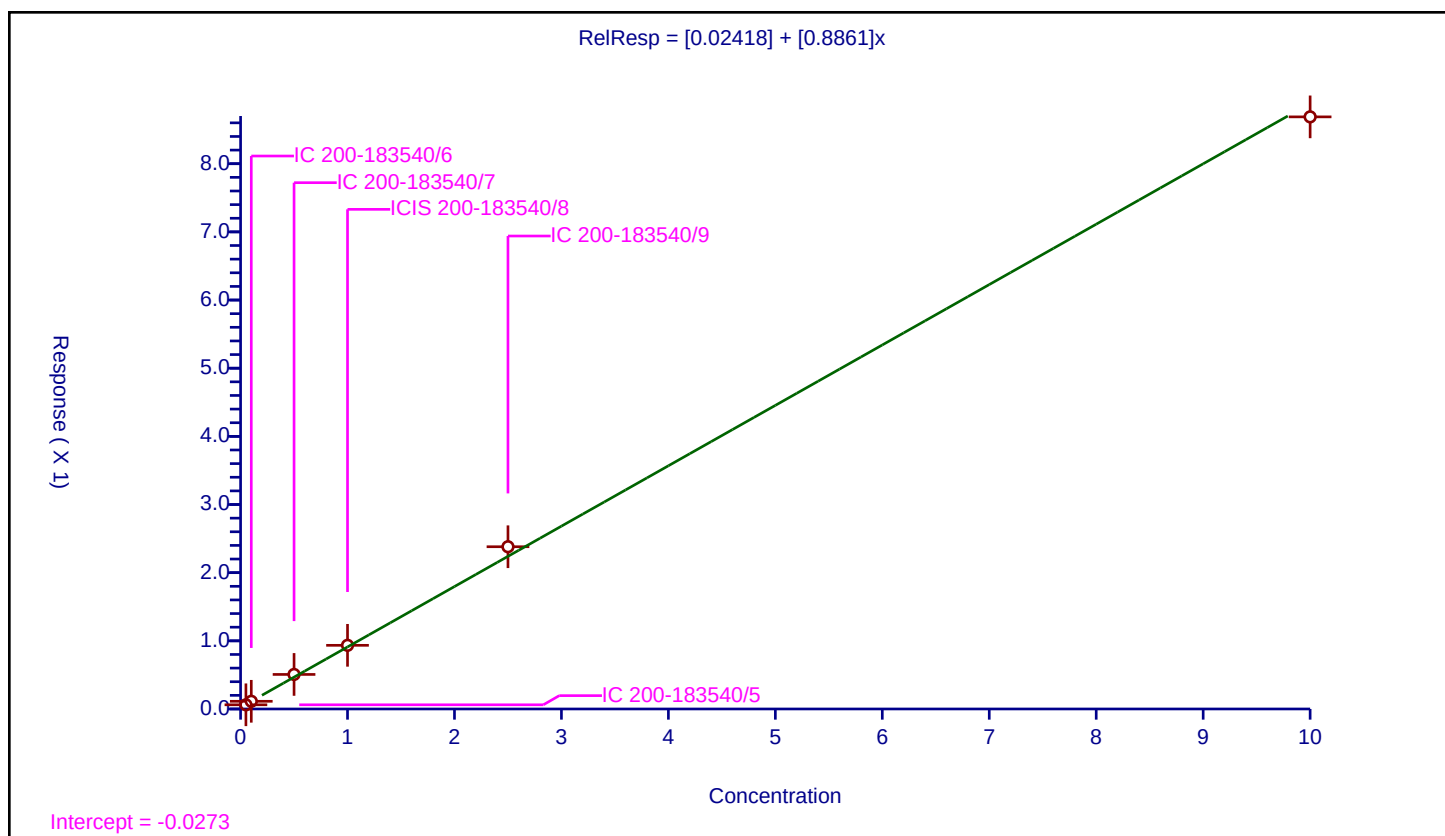
Curve Coefficients

Intercept: 0.02418
 Slope: 0.8861

Error Coefficients

Standard Error: 3870000
 Relative Standard Error: 9.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.061473	1.25	1062238.0	1.229456	Y
2	IC 200-183540/6	0.1	0.112871	1.25	1307906.0	1.128713	Y
3	IC 200-183540/7	0.5	0.506732	1.25	1037396.0	1.013463	Y
4	ICIS 200-183540/8	1.0	0.933977	1.25	1055967.0	0.933977	Y
5	IC 200-183540/9	2.5	2.380569	1.25	1018455.0	0.952228	Y
6	IC 200-183540/10	10.0	8.687511	1.25	1070310.0	0.868751	Y



Calibration

/ Perfluorooctadecanoic acid

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

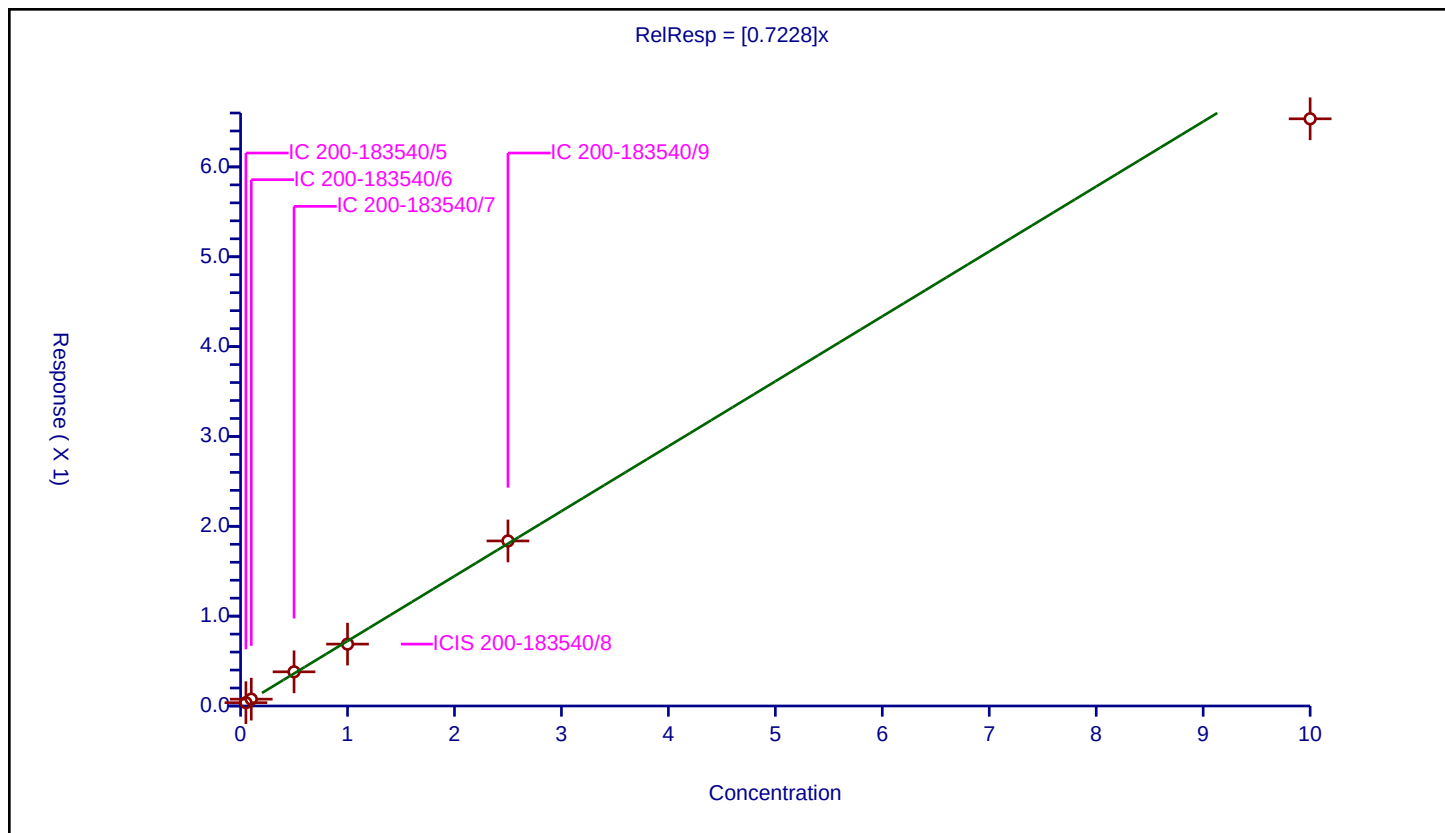
Curve Coefficients

Intercept: 0
 Slope: 0.7228

Error Coefficients

Standard Error: 2610000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-183540/5	0.05	0.036887	1.25	1062238.0	0.737735	Y
2	IC 200-183540/6	0.1	0.076081	1.25	1307906.0	0.760806	Y
3	IC 200-183540/7	0.5	0.380473	1.25	1037396.0	0.760946	Y
4	ICIS 200-183540/8	1.0	0.688679	1.25	1055967.0	0.688679	Y
5	IC 200-183540/9	2.5	1.83697	1.25	1018455.0	0.734788	Y
6	IC 200-183540/10	10.0	6.535686	1.25	1070310.0	0.653569	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: ICV 200-183540/12 Calibration Date: 09/14/2022 11:30

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA220914ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.012	0.9866		0.974	1.00	-2.6	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.070	1.083		1.02	1.01	1.2	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.153	1.041		0.903	1.00	-9.7	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.713	2.790		1.03	1.00	2.8	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.086	1.094		1.02	1.01	0.8	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.372	1.312		0.956	1.00	-4.4	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.092	1.065		0.985	1.01	-2.5	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.163	1.104		0.959	1.01	-5.1	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.114	0.996		0.894	1.00	-10.6	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.558	4.935		0.888	1.00	-11.2	30.0
6:2 FTS	AveID	1.822	1.863		1.02	1.00	2.3	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.409	1.304		0.926	1.00	-7.4	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.132	1.151		1.02	1.00	1.7	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	0.9718		0.808	1.01	-20.0	30.0
Perfluorononanoic acid (PFNA)	AveID	1.050	1.091		1.04	1.00	4.0	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.438	2.214		0.908	1.00	-9.2	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8853	0.8042		0.917	1.01	-9.2	30.0
8:2 FTS	AveID	1.239	1.236		1.01	1.01	-0.3	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.075	1.062		0.987	1.00	-1.3	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.010	0.9537		0.944	1.00	-5.6	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9248	0.9288		1.00	1.00	0.4	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6900	0.6071		0.889	1.01	-12.0	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.043	0.9803		0.940	1.00	-6.0	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9137	0.9708		1.06	1.00	6.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	3.172	2.856		0.900	1.00	-10.0	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.069	0.9353		0.875	1.00	-12.5	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.6729	0.6166		0.883	0.964	-8.4	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2805	0.2511		0.867	0.968	-10.5	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: ICV 200-183540/12 Calibration Date: 09/14/2022 11:30

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA220914ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	0.9793	0.8597		0.878	1.00	-12.2	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1555	0.1685		1.08	1.00	8.3	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9125		1.00	1.00	0.3	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7228	0.7233		1.00	1.00	0.0	30.0
13C4 PFBA	Ave	1.220	1.160		1.19	1.25	-4.9	50.0
13C5 PFPeA	Ave	0.9597	0.8978		1.17	1.25	-6.5	50.0
13C3 PFBS	Ave	0.9722	0.9570		1.14	1.16	-1.6	50.0
M2-4:2 FTS	Ave	0.0881	0.0812		1.08	1.17	-7.9	50.0
13C2 PFHxA	Ave	0.9758	0.9187		1.18	1.25	-5.9	50.0
13C3 HFPO-DA	Ave	0.1832	0.1656		1.13	1.25	-9.6	50.0
18O2 PFHxS	Ave	0.6942	0.6738		1.15	1.18	-2.9	50.0
13C4 PFHpA	Ave	0.9588	0.9609		1.25	1.25	0.2	50.0
M2-6:2 FTS	Ave	0.1186	0.1194		1.20	1.19	0.7	50.0
13C4 PFOA	Ave	1.025	0.9186		1.12	1.25	-10.4	50.0
13C4 PFOS	Ave	0.4574	0.4554		1.19	1.20	-0.4	50.0
13C5 PFNA	Ave	1.009	0.9491		1.18	1.25	-5.9	50.0
13C2 PFDA	Ave	0.9801	0.9358		1.19	1.25	-4.5	50.0
M2-8:2 FTS	Ave	0.1402	0.1383		1.18	1.20	-1.4	50.0
13C8 FOSA	Ave	0.7983	0.7400		1.16	1.25	-7.3	50.0
d3-NMeFOSAA	Ave	0.1380	0.1256		1.14	1.25	-9.0	50.0
13C2 PFUnA	Ave	0.8025	0.7316		1.14	1.25	-8.8	50.0
d5-NEtFOSAA	Ave	0.1370	0.1292		1.18	1.25	-5.7	50.0
13C2 PFDoA	Ave	0.7827	0.7390		1.18	1.25	-5.6	50.0
13C2 PFTeDA	Ave	0.6687	0.6315		1.18	1.25	-5.6	50.0
13C2 PFHxDA	Ave	0.7383	0.6541		1.11	1.25	-11.4	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 14-Sep-2022 11:30:53 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0052438-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 12:29:16 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 12:03:18

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	2.093	0.001	0.601	1913035	1.19		95.1	8897	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.103	2.102	0.001	1.004	1509851	0.9744			168	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.404	2.413	-0.009	0.689	1480073	1.17		93.5	2489	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.418	2.413	0.005	1.006	1295235	1.02			43.4	
D 47 13C3 PFBS										
301.90 > 80.00	2.431	2.426	0.005	0.697	1467208	1.14		98.4	239657	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.431	2.426	0.005	1.000	1314100	0.9032	Target=2.19		1276	M
298.90 > 99.00	2.431	2.426	0.005	1.000	602549		2.18(1.09-3.28)		482	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.721	2.725	-0.004	0.780	125031	1.08		92.1	152	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.721	2.725	-0.004	1.000	298745	1.03			1618	
D 7 13C2 PFHxA										
315.00 > 270.00	2.757	2.762	-0.005	0.791	1514486	1.18		94.1	5631	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.757	2.762	-0.005	1.000	1338877	1.02	Target=13.67		339	
313.00 > 119.00	2.757	2.762	-0.005	1.000	95494		14.02(6.83-20.50)		197	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.769	2.774	-0.005	0.886	1165946	0.9560	Target=3.00		1127	M
349.00 > 99.00	2.769	2.774	-0.005	0.886	391290		2.98(1.50-4.51)		869	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.867	2.871	-0.004	0.822	273067	1.13		90.4	1070	

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	2.867	2.871	-0.004	1.000	234993	0.9848			1133	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.138	3.132	0.006	1.000	1261990	0.8935	Target=3.76		411	
363.00 > 169.00	3.127	3.132	-0.005	0.996	316410		3.99(1.88-5.65)		642	
D 9 13C4 PFHpA										
367.00 > 322.00	3.138	3.132	0.006	0.900	1584137	1.25		100	1581	
D 11 18O2 PFHxS										
403.00 > 84.00	3.127	3.132	-0.005	0.897	1050768	1.15		97.1	1741	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.127	3.132	-0.005	1.000	991038	0.9588	Target=3.60		1242	M
399.00 > 99.00	3.127	3.132	-0.005	1.000	255422		3.88(1.80-5.40)		426	M
77 DONA										M
377.00 > 251.00	3.172	3.165	0.007	0.833	2964379	0.8879	Target=3.10		2001	M
377.00 > 85.00	3.172	3.165	0.007	0.833	978799		3.03(1.55-4.65)		915	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.479	3.473	0.006	0.913	783441	0.9258	Target=5.32		1404	
449.00 > 99.00	3.479	3.473	0.006	0.913	146721		5.34(2.66-7.97)		722	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.479	3.481	-0.002	1.000	293506	1.02			509	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.479	3.481	-0.002	0.998	187067	1.20		101	456	
D 14 13C4 PFOA										M
417.00 > 372.00	3.488	3.490	-0.002	1.000	1514451	1.12		89.6	1733	M
* 62 13C2 PFOA										
415.00 > 370.00	3.488	3.490	-0.002		1648595	1.25			2968	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.488	3.490	-0.002	1.000	1394544	1.02	Target=2.73		115	M
413.00 > 169.00	3.488	3.490	-0.002	1.000	521092		2.68(1.37-4.10)		541	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.809	3.801	0.008	1.000	589533	0.8079	Target=5.09		543	M
499.00 > 99.00	3.809	3.801	0.008	1.000	113343		5.20(2.55-7.64)		425	M
D 18 13C4 PFOS										
503.00 > 80.00	3.809	3.801	0.008	1.092	717771	1.19		99.6	1879	
D 19 13C5 PFNA										
468.00 > 423.00	3.830	3.821	0.009	1.098	1564656	1.18		94.1	3157	
20 Perfluorononanoic acid										
463.00 > 419.00	3.830	3.821	0.009	1.000	1365950	1.04	Target=7.76		421	
463.00 > 169.00	3.830	3.821	0.009	1.000	169234		8.07(3.88-11.63)		847	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.977	3.969	0.008	1.044	1329881	0.9083			4412	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.103	4.104	-0.001	1.077	487842	0.9175	Target=2.67		1761	
549.00 > 99.00	4.103	4.104	-0.001	1.077	193081		2.53(1.34-4.01)		1391	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.127	0.010	1.186	1542778	1.19		95.5	3063	

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	4.137	4.127	0.010	1.000	1310509	0.9874	Target=9.83	624		
513.00 > 169.00	4.137	4.127	0.010	1.000	130647		10.03(4.91-14.74)	457		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.138	-0.001	1.186	218381	1.18		98.6	753	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.137	4.138	-0.001	1.000	227645	1.01		1169		M
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.184	0.010	1.203	1219936	1.16		92.7	2047	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.195	4.196	-0.002	1.000	930772	0.9444		1164		
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.272	4.273	-0.001	1.225	207107	1.14		91.0	557	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.284	4.273	0.011	1.003	153897	1.00		288		M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.375	4.365	0.010	1.149	368276	0.8887	Target=2.59	1904		
599.00 > 99.00	4.375	4.365	0.010	1.149	146920		2.51(1.30-3.89)	901		
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.399	-0.001	1.000	945976	0.9398	Target=9.68	475		M
563.00 > 169.00	4.398	4.399	-0.001	1.000	110864		8.53(4.84-14.53)	287		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.409	4.399	0.010	1.264	212993	1.18		94.3	683	
D 30 13C2 PFUnA										
565.00 > 520.00	4.398	4.399	-0.001	1.261	1206190	1.14		91.2	2564	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.420	4.410	0.010	1.003	165417	1.06		632		M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.503	4.491	0.012	1.182	1715154	0.9004		2027		M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.633	-0.001	1.000	911596	0.8752	Target=6.96	139		M
613.00 > 169.00	4.632	4.633	-0.001	1.000	140723		6.48(3.48-10.43)	435		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.632	4.633	-0.001	1.328	1218356	1.18		94.4	2499	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.653	0.0	1.125	108403	0.8834		1250		
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.812	4.803	0.009	1.263	146013	0.8667	Target=0.52	1792		
699.00 > 99.00	4.812	4.803	0.009	1.263	278150		0.52(0.26-0.78)	2015		
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.858	4.848	0.010	1.049	837959	0.8779	Target=4.85	134		M
663.00 > 169.00	4.847	4.848	-0.001	1.046	163913		5.11(2.42-7.27)	264		M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.041	5.041	0.0	1.000	140328	1.08	Target=0.99	692		M
713.00 > 219.00	5.041	5.041	0.0	1.000	150531		0.93(0.49-1.48)	317		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.041	5.041	0.0	1.445	1041087	1.18		94.4	2785	

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	5.399	5.388	0.011	1.548	1078352	1.11		88.6	3193	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.399	5.388	0.011	1.000	787214	1.00	Target=4.99		168	M
813.00 > 169.00	5.399	5.388	0.011	1.000	159155		4.95(2.49-7.48)		1105	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.748	5.731	0.017	1.065	623968	1.00	Target=4.90		164	M
913.00 > 169.00	5.739	5.731	0.008	1.063	121243		5.15(2.45-7.35)		513	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00011

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d

Injection Date: 14-Sep-2022 11:30:53

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

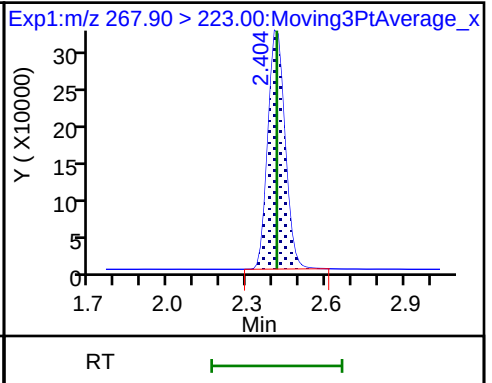
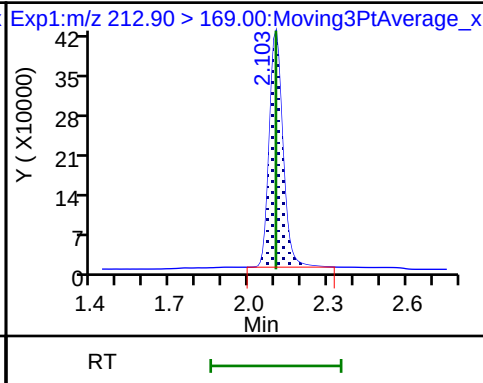
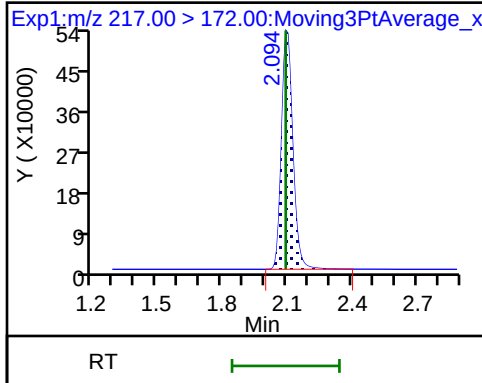
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

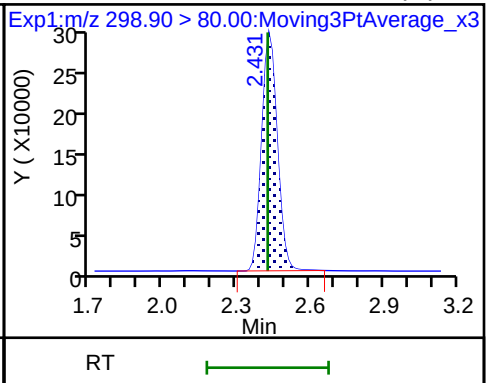
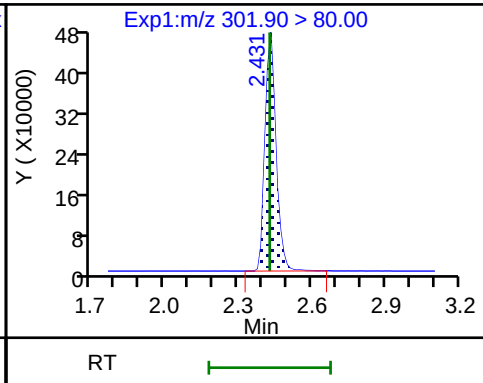
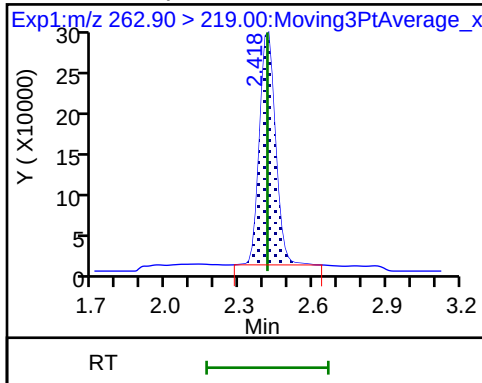
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

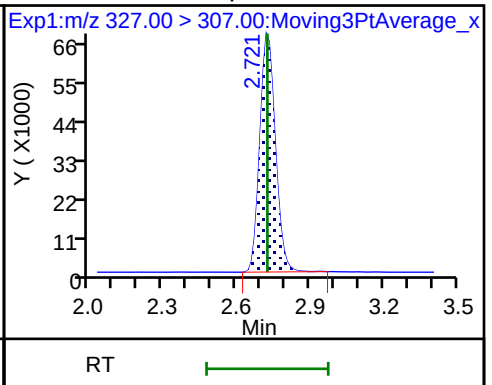
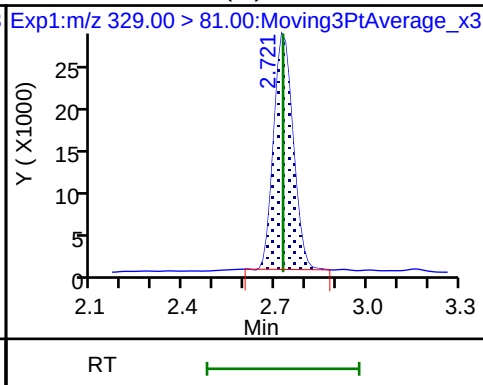
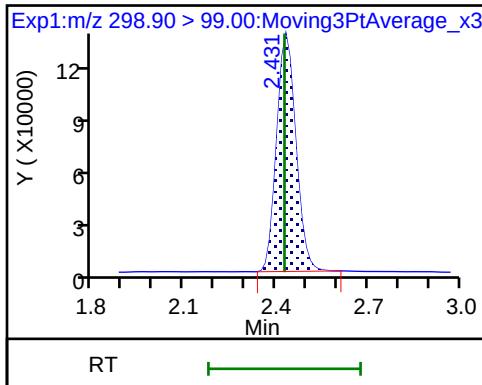
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

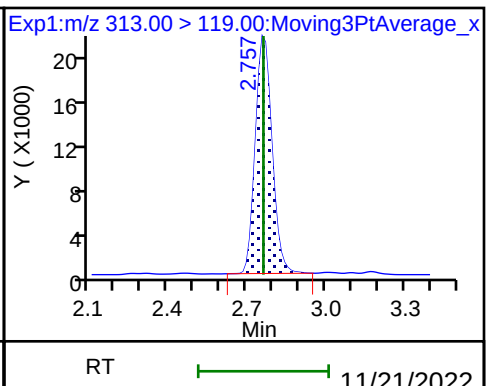
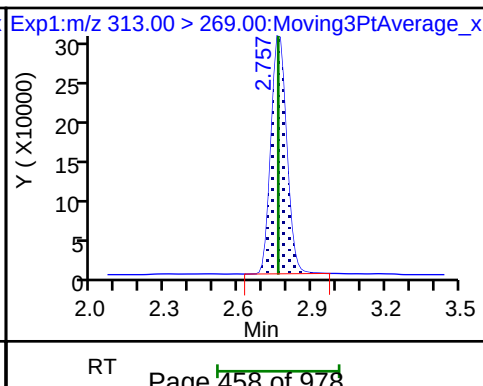
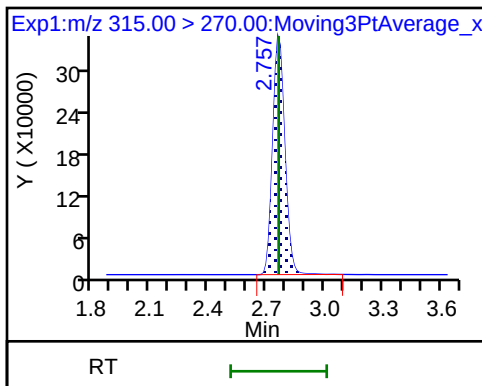
61 1H,1H,2H,2H-perfluorohexanesulfo



D 7 13C2 PFHxA

6 Perfluorohexanoic acid

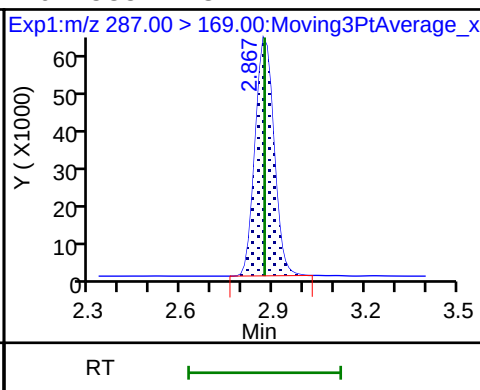
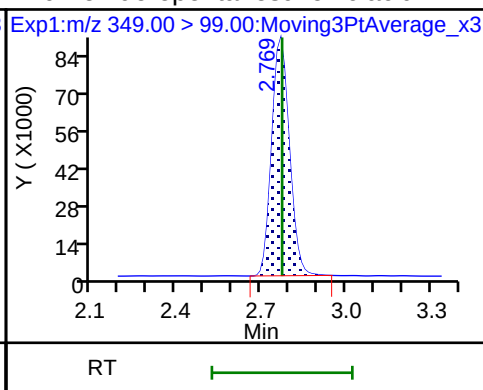
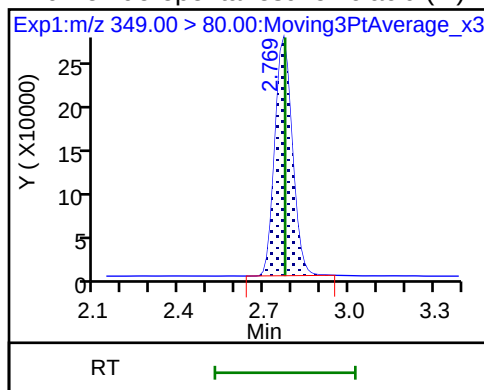
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

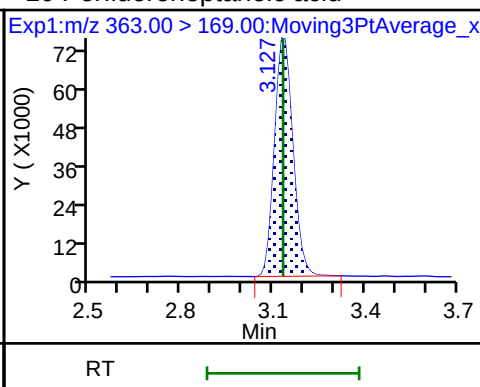
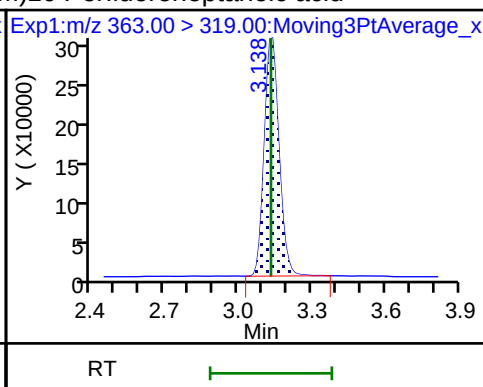
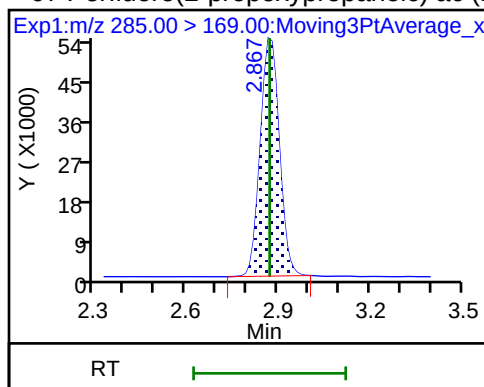
70 Perfluoropentanesulfonic acid

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M)10 Perfluoroheptanoic acid

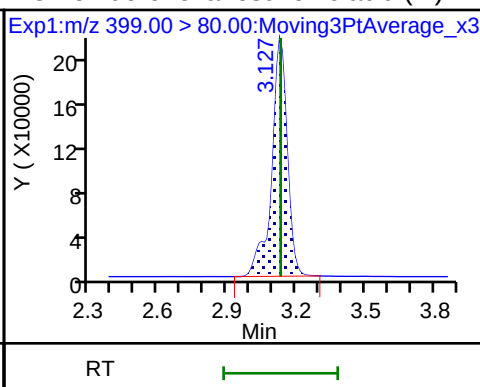
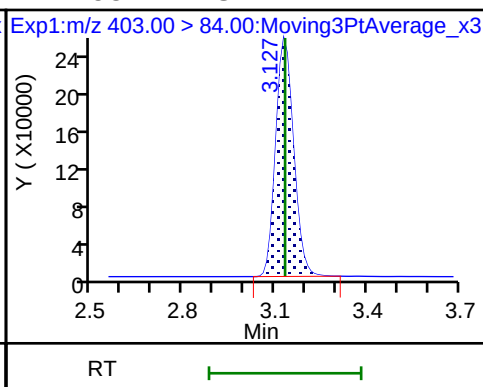
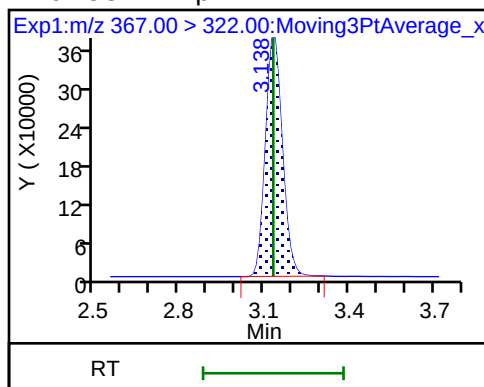
10 Perfluoroheptanoic acid



D 9 13C4 PFHpA

D 11 18O2 PFHxS

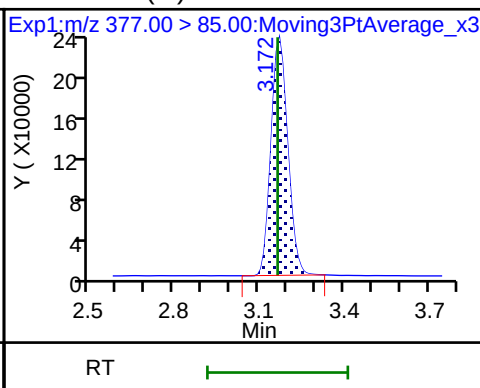
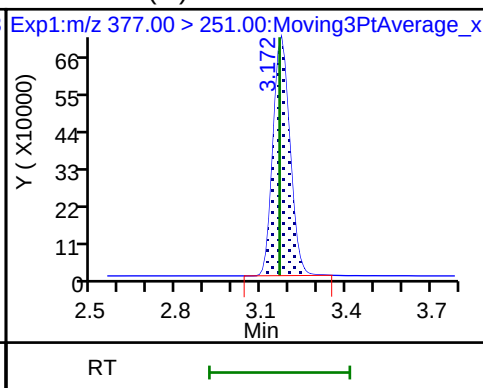
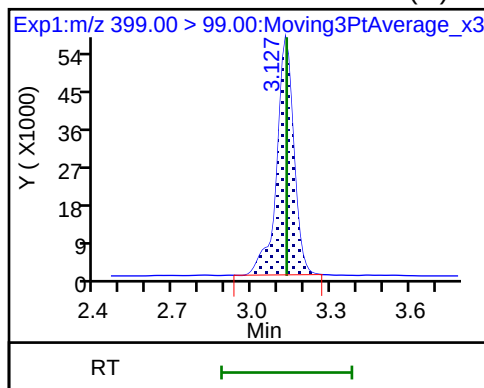
8 Perfluorohexanesulfonic acid (M)

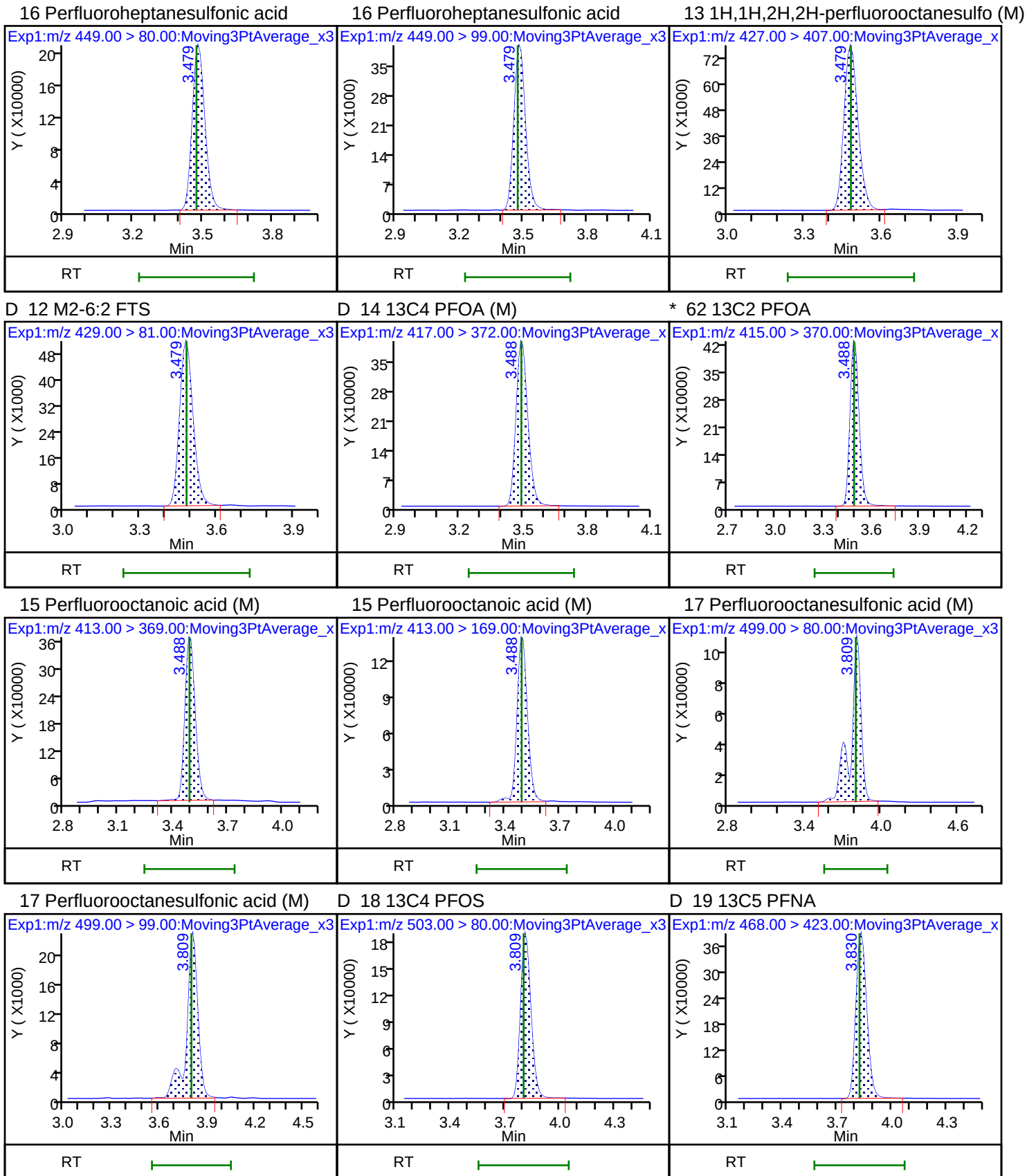


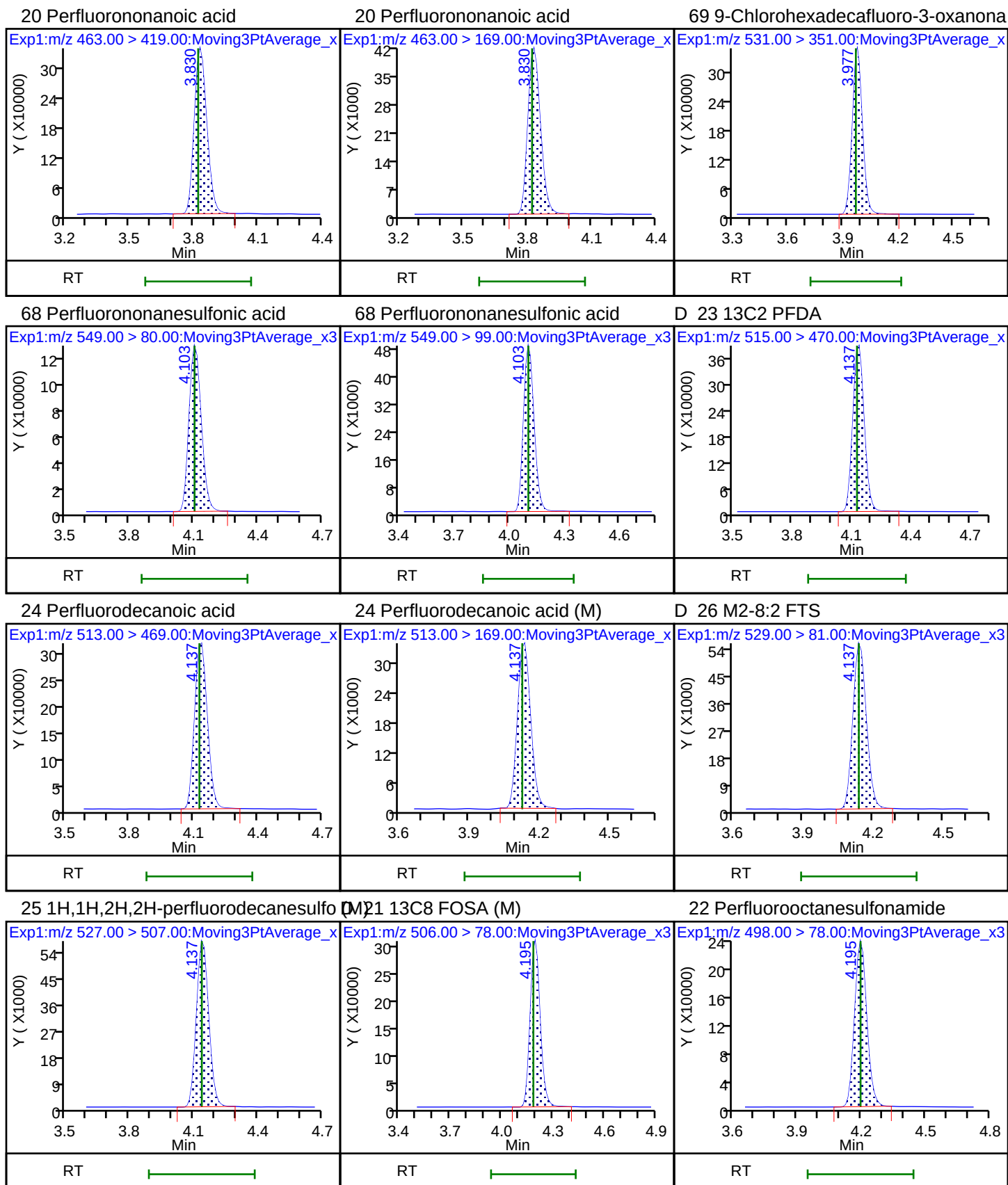
8 Perfluorohexanesulfonic acid (M)

77 DONA (M)

77 DONA (M)



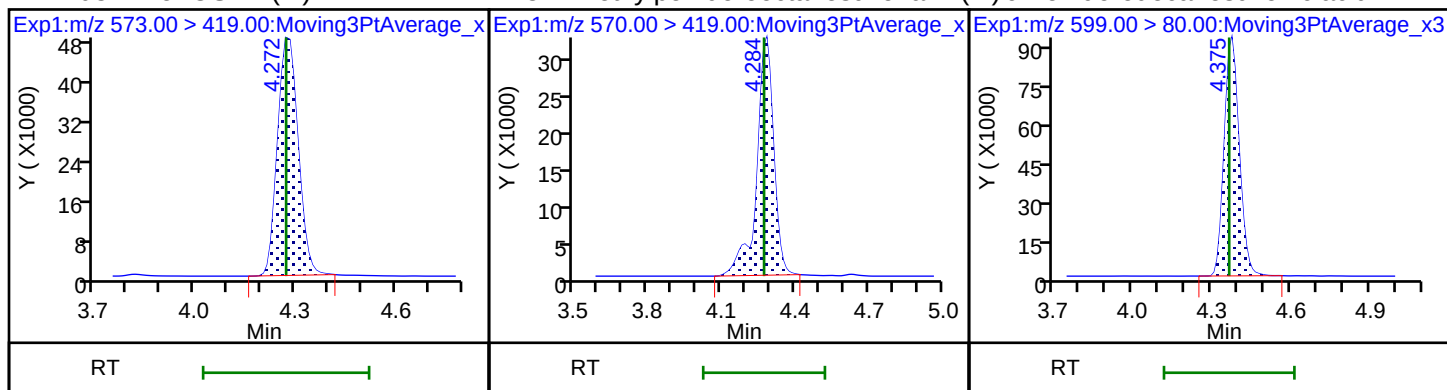




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

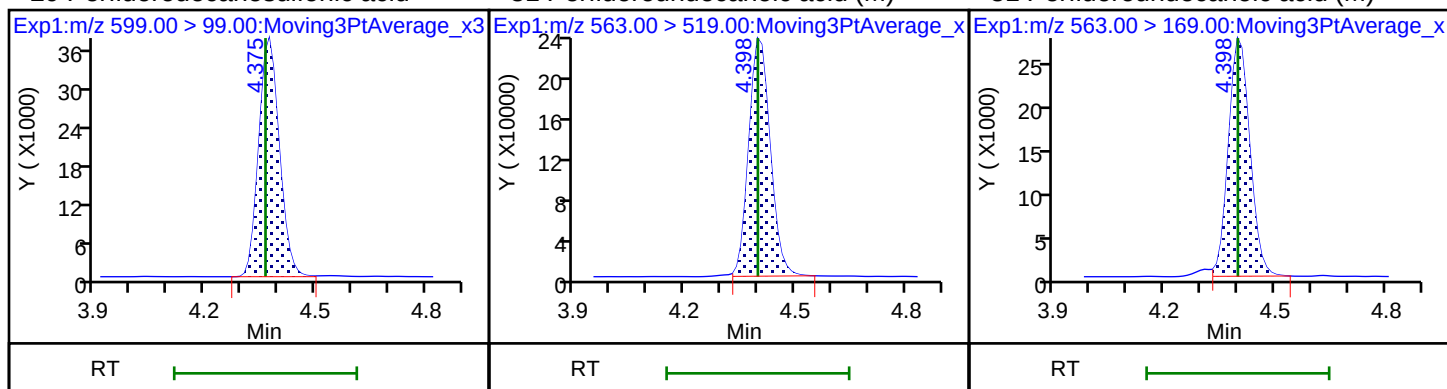
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid (M)

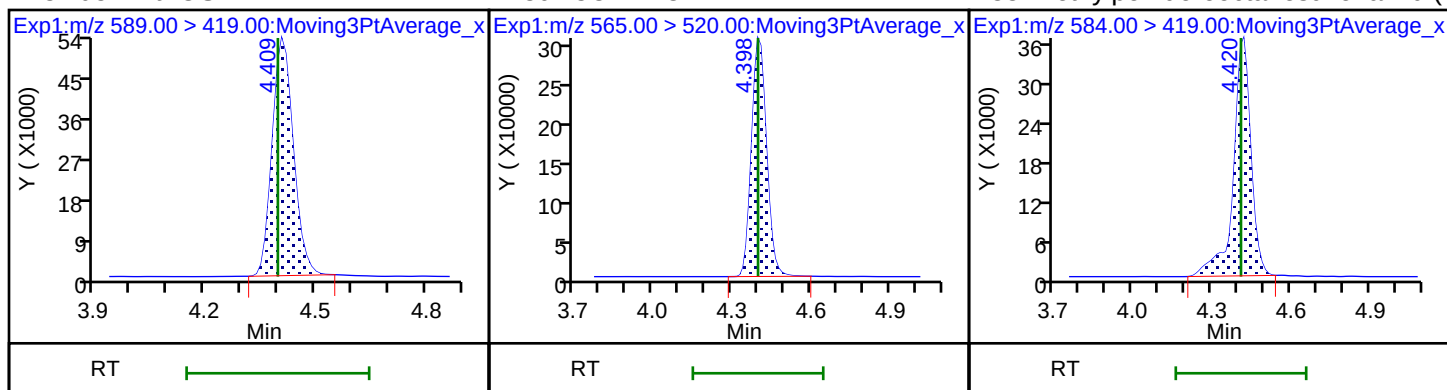
31 Perfluoroundecanoic acid (M)



D 32 d5-NEtFOSAA

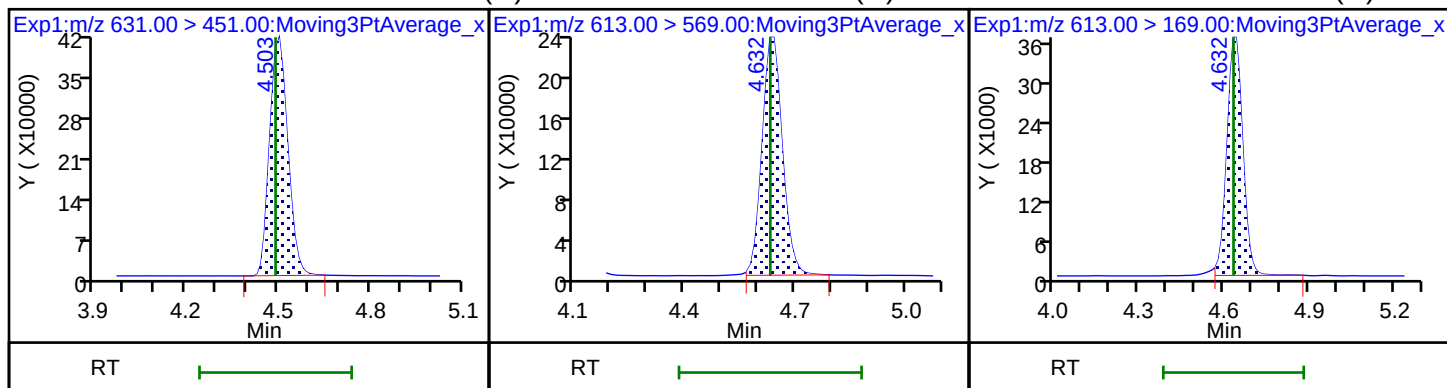
D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamid (M)



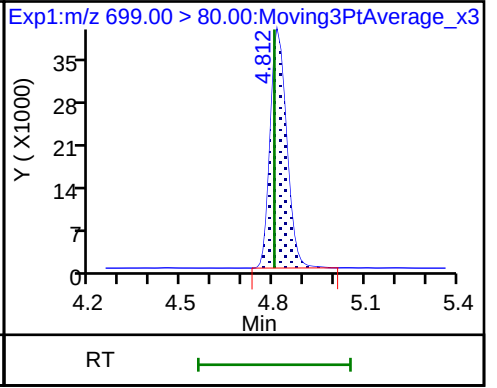
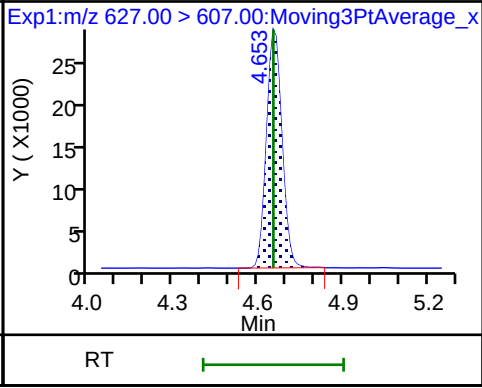
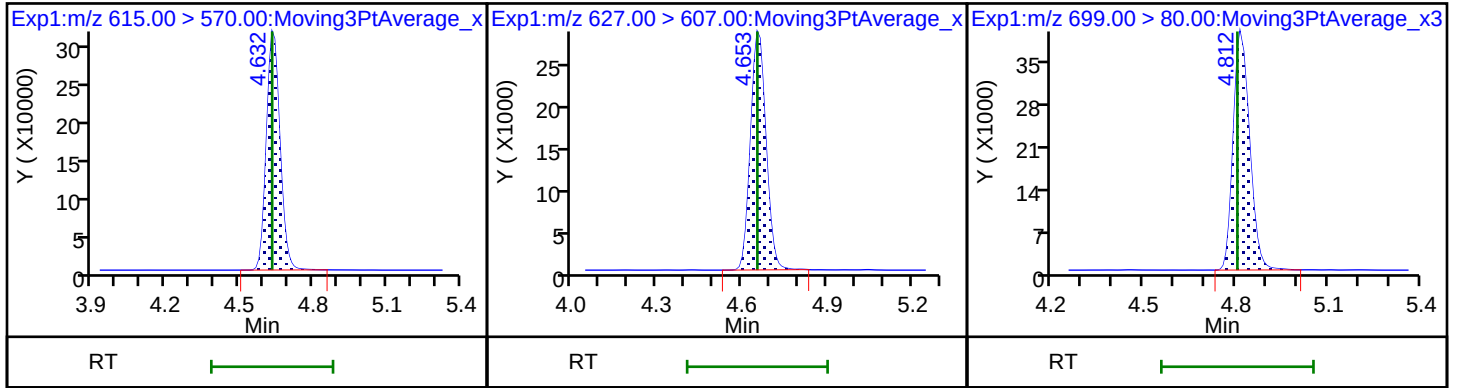
66 11-Chloroeicosafluoro-3-oxaundec (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFD0A

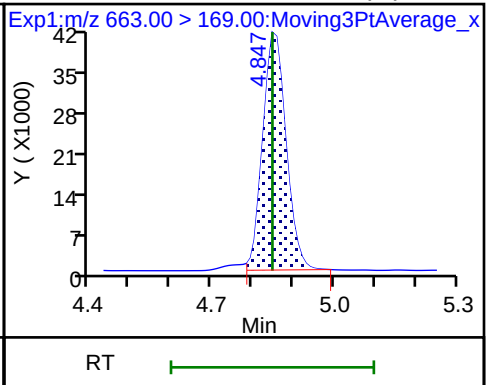
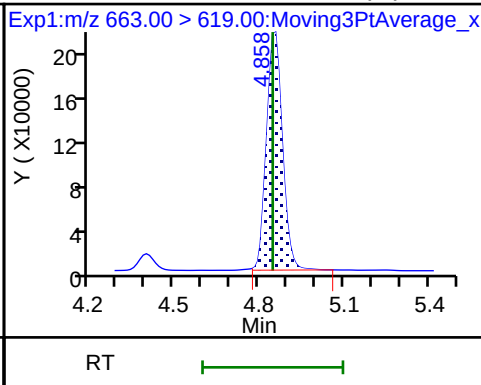
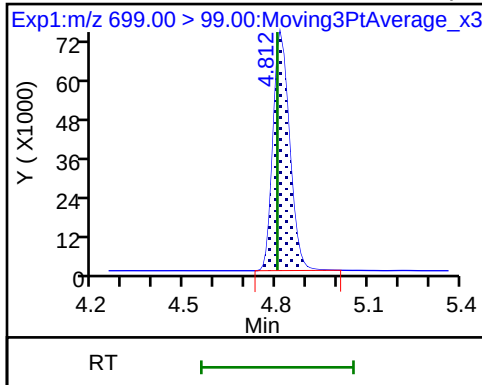
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

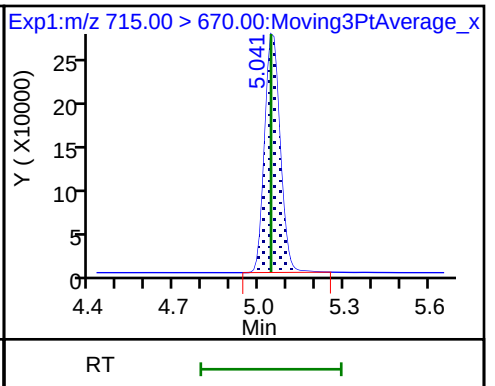
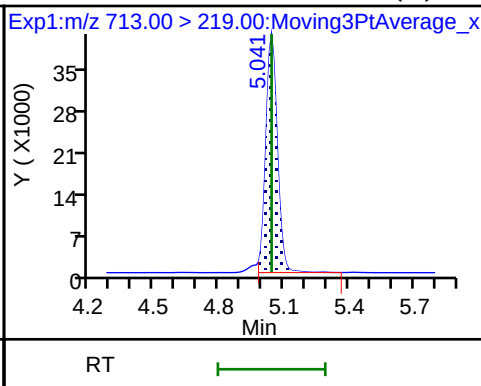
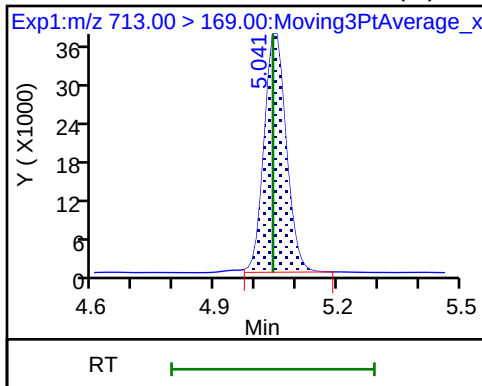
41 Perfluorotridecanoic acid (M)



42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)

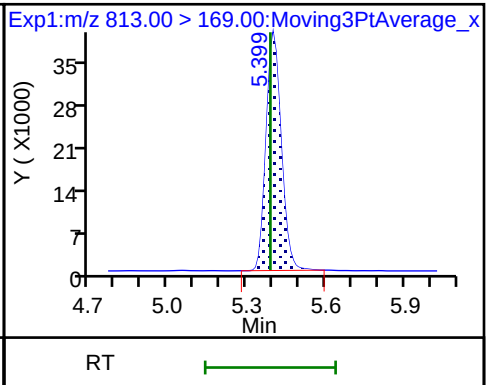
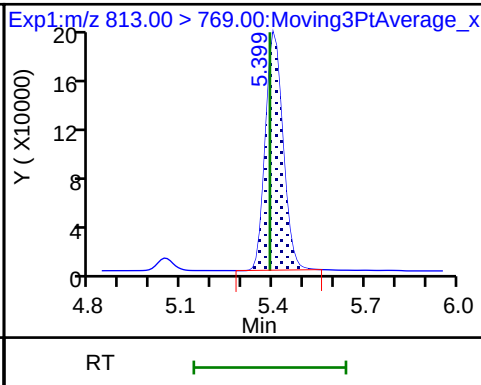
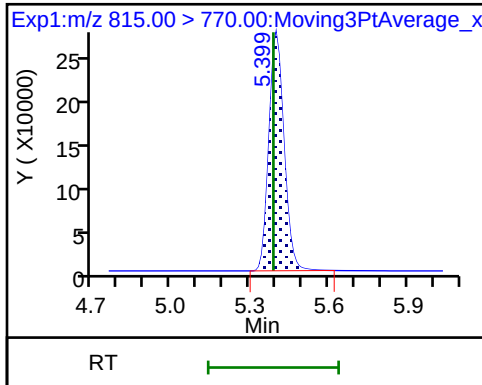
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

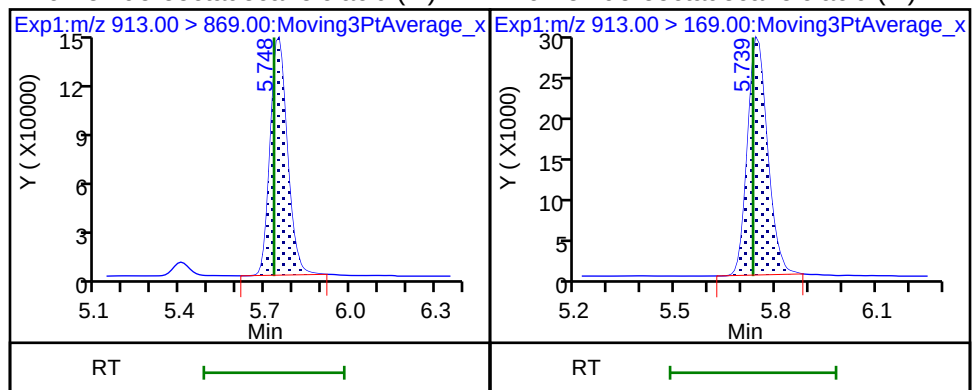
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

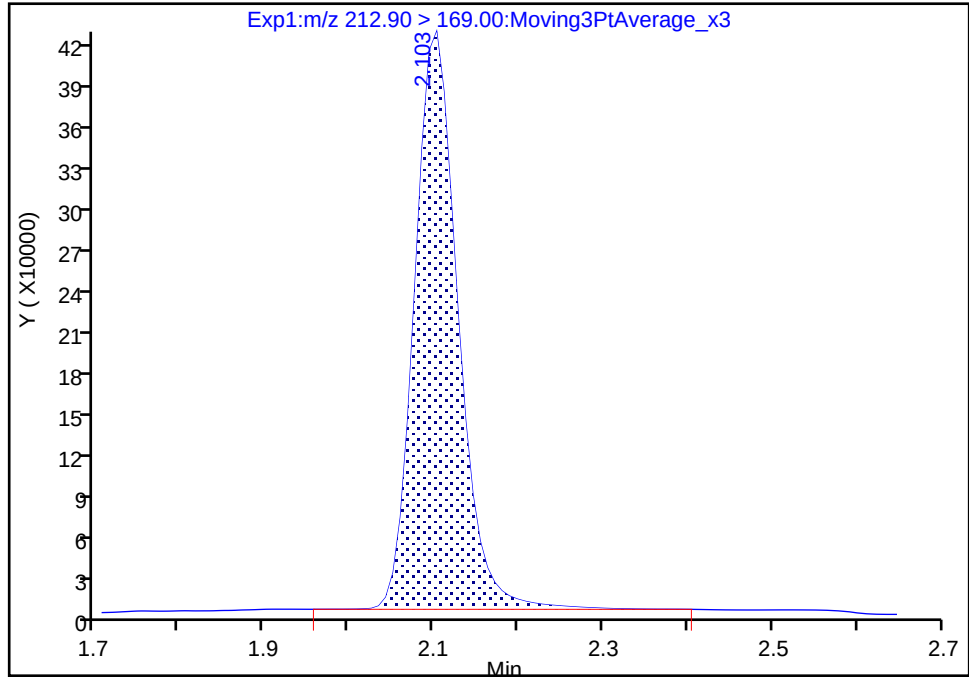
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

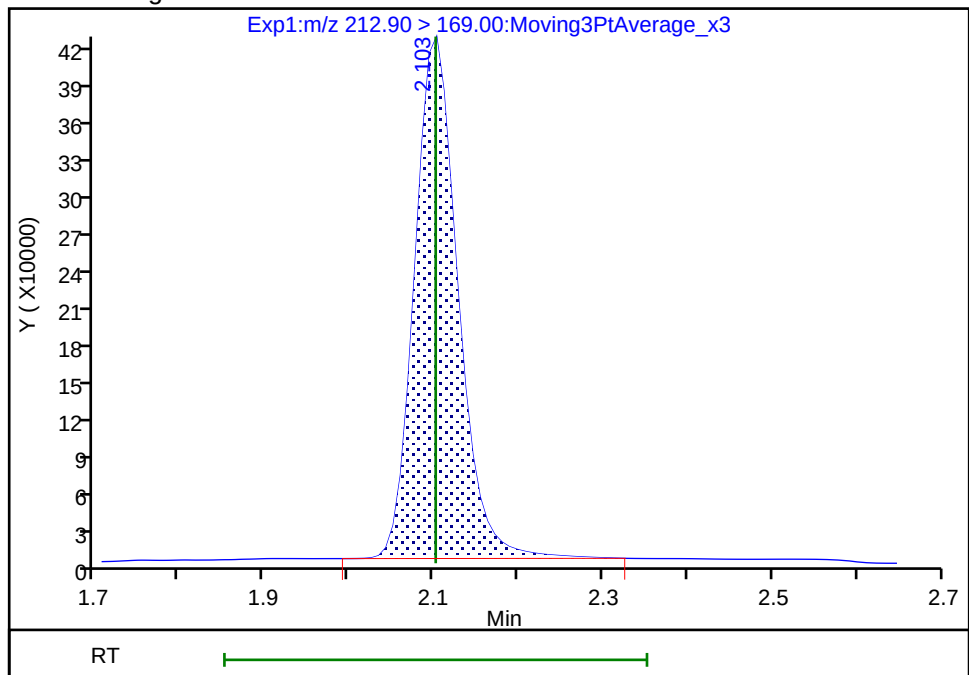
RT: 2.10
Area: 1513799
Amount: 0.976971
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 1509851
Amount: 0.974423
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:16:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 465 of 978

11/21/2022
4:10 PM

Eurofins Burlington

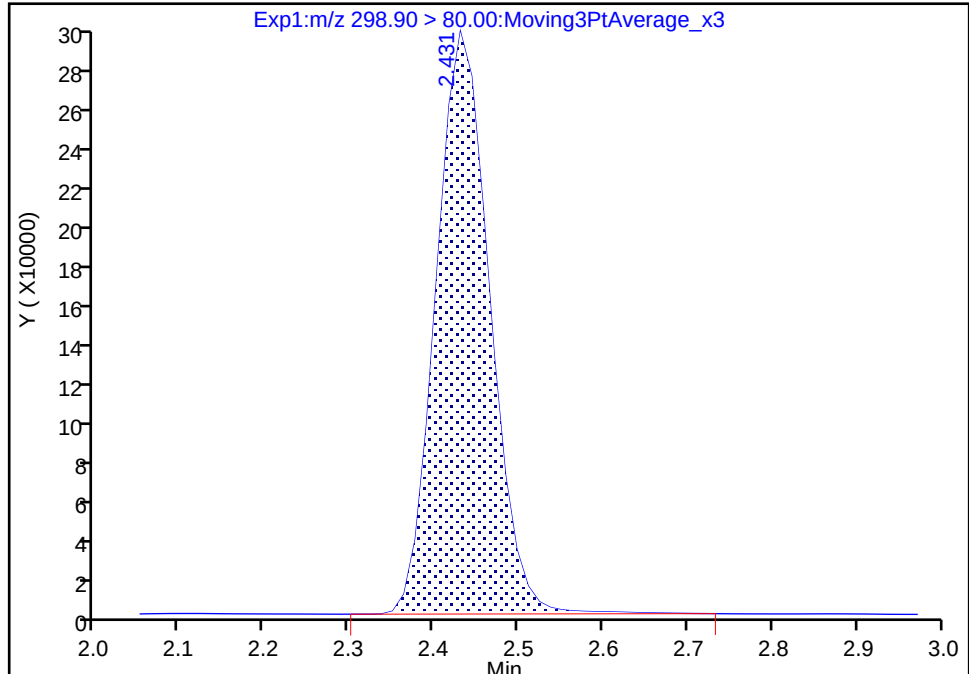
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

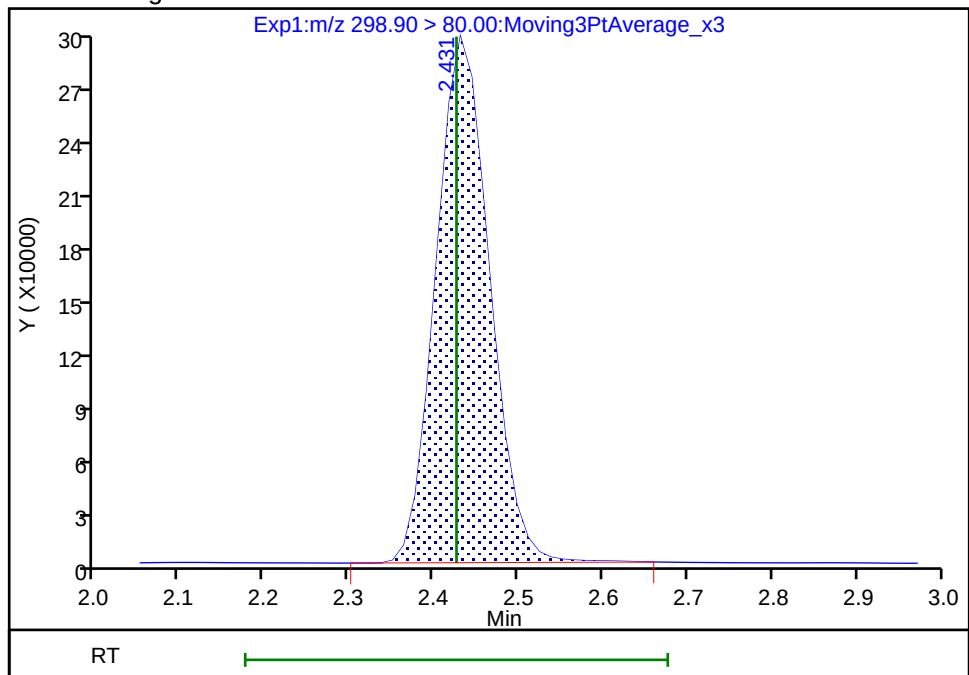
RT: 2.43
Area: 1319020
Amount: 0.906551
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 1314100
Amount: 0.903169
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:16:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 466 of 978

11/21/2022
4:10 PM

Eurofins Burlington

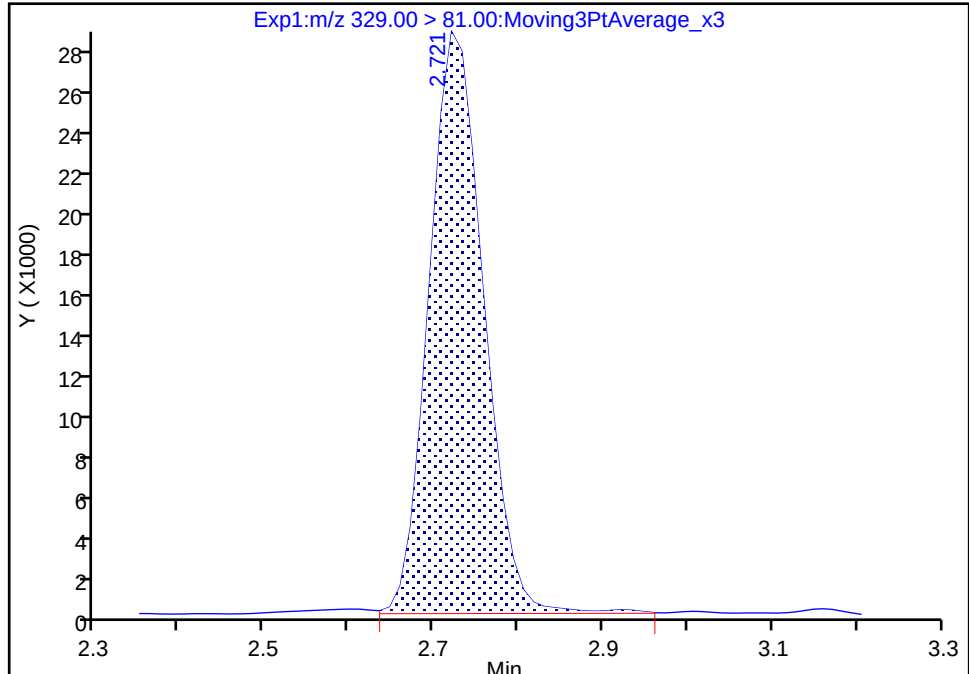
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

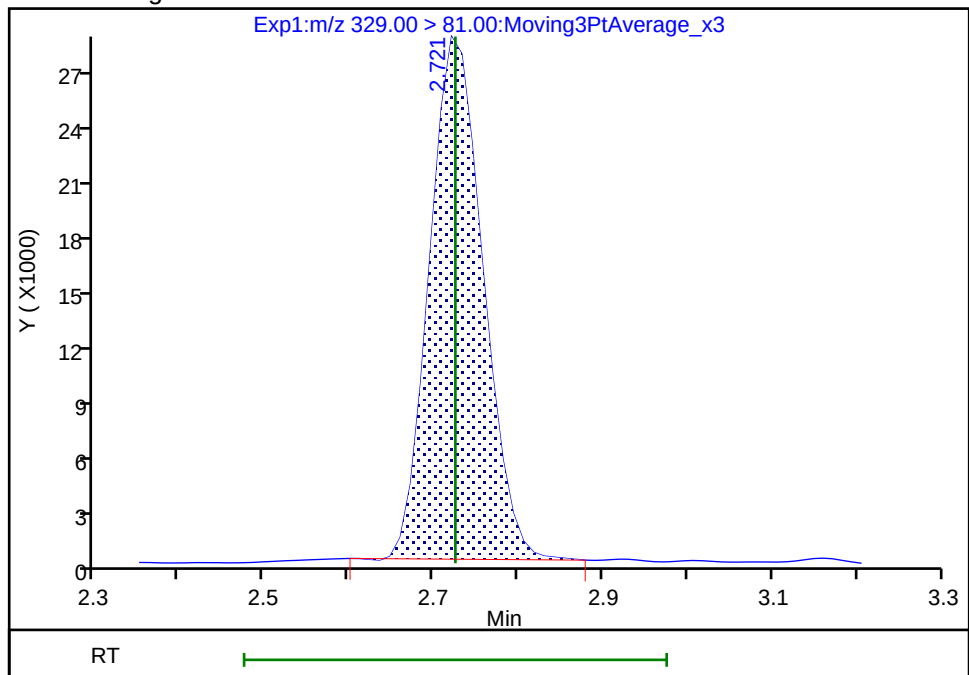
RT: 2.72
Area: 128143
Amount: 1.102519
Amount Units: ng/ml

Processing Integration Results



RT: 2.72
Area: 125031
Amount: 1.075744
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:16:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 467 of 978

11/21/2022
4:10 PM

Eurofins Burlington

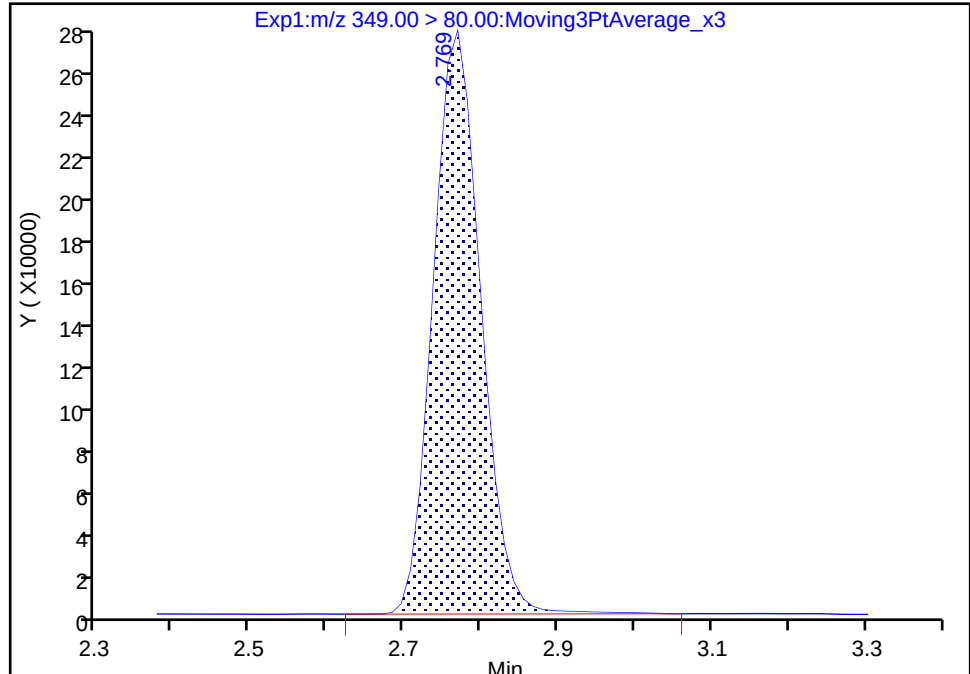
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

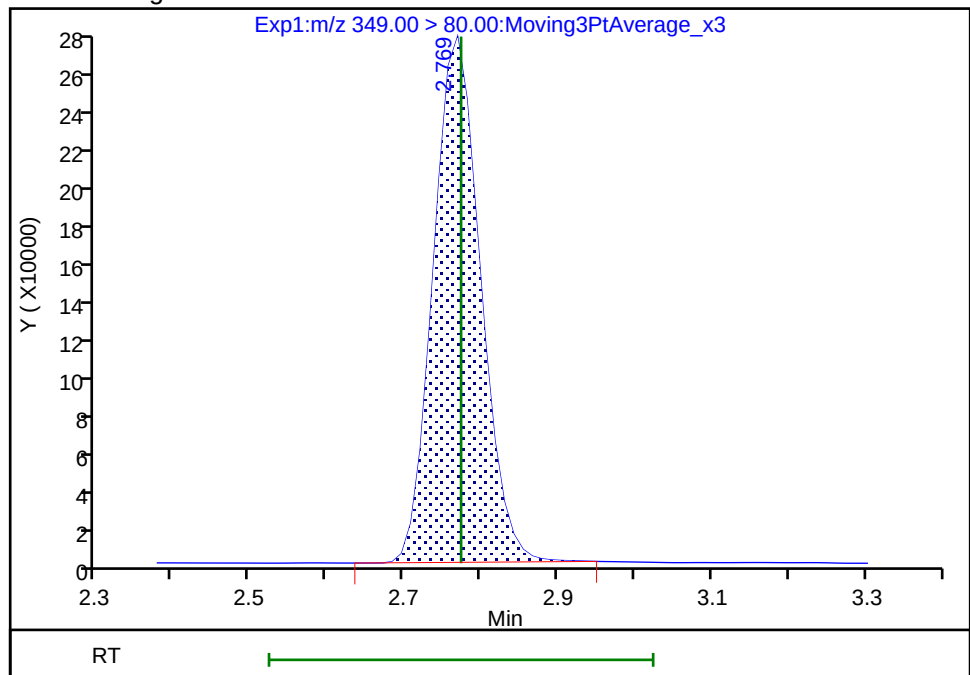
RT: 2.77
Area: 1174806
Amount: 0.963309
Amount Units: ng/ml

Processing Integration Results



RT: 2.77
Area: 1165946
Amount: 0.956044
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:16:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 468 of 978

11/21/2022
4:10 PM

Eurofins Burlington

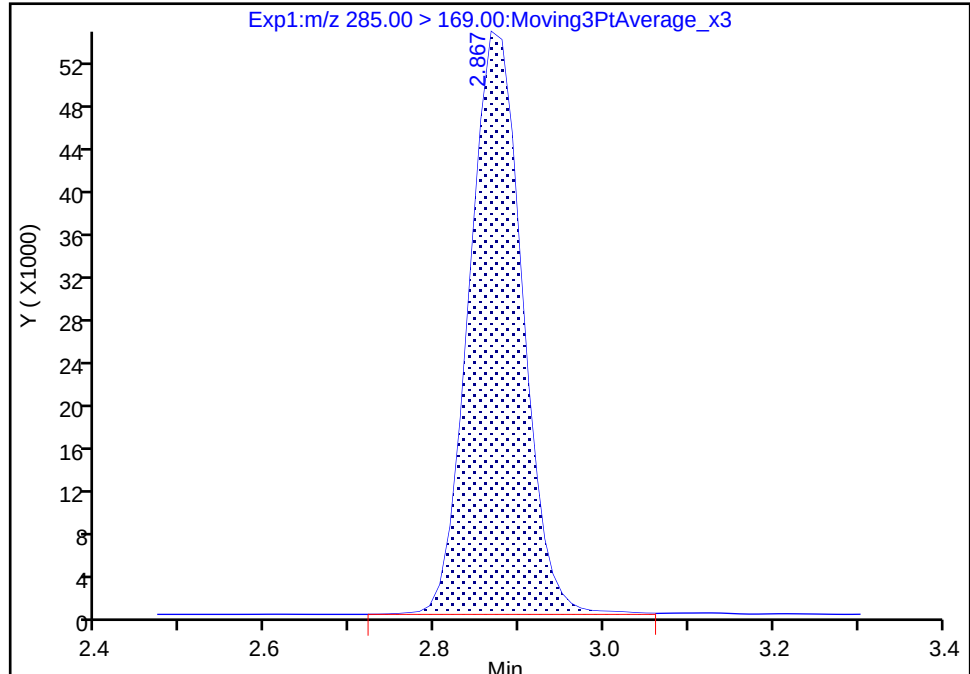
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

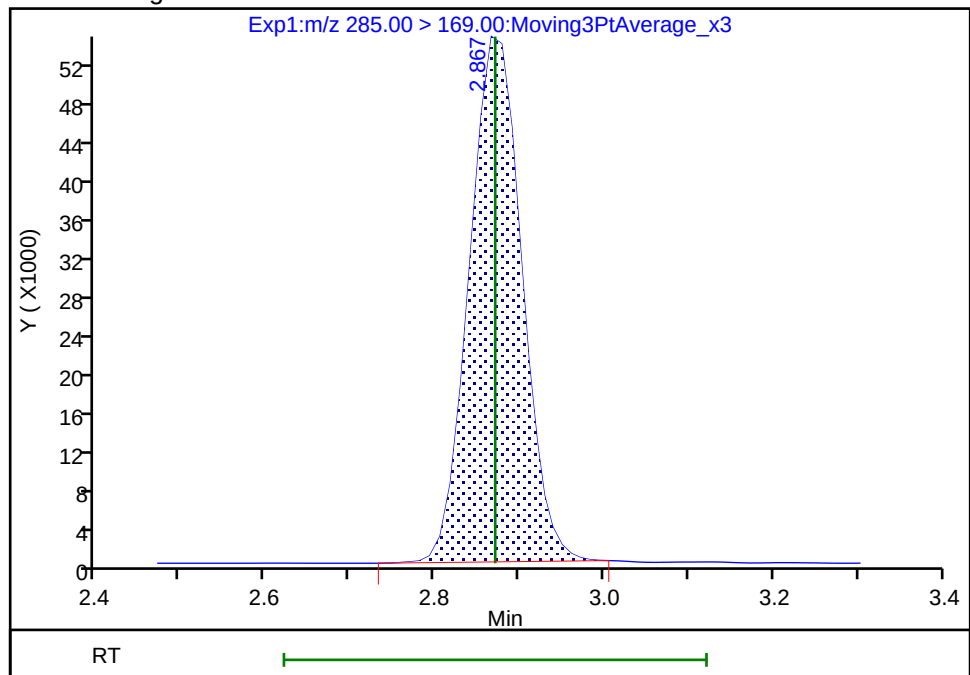
RT: 2.87
Area: 237846
Amount: 0.996733
Amount Units: ng/ml

Processing Integration Results



RT: 2.87
Area: 234993
Amount: 0.984777
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:17:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 469 of 978

11/21/2022
4:10 PM

Eurofins Burlington

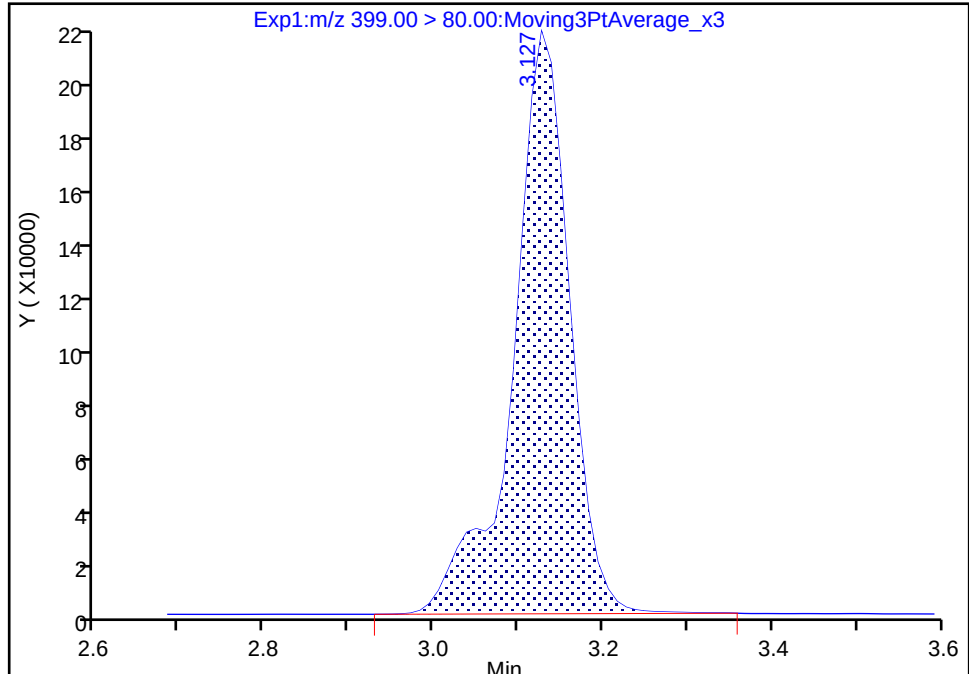
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

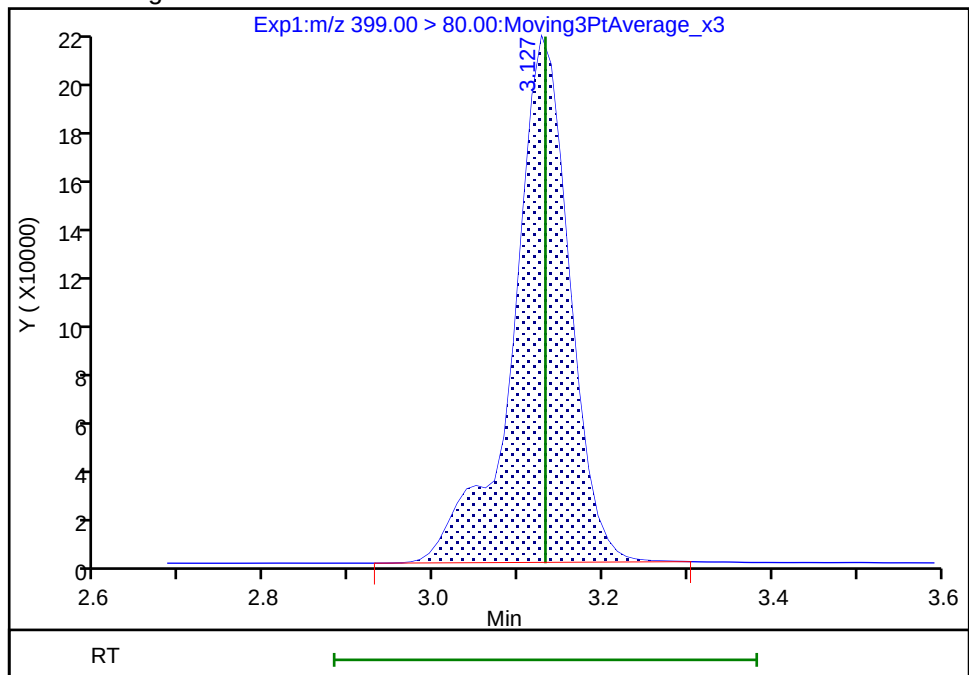
RT: 3.13
Area: 994532
Amount: 0.962140
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 991038
Amount: 0.958760
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:17:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 470 of 978

11/21/2022
4:10 PM

Eurofins Burlington

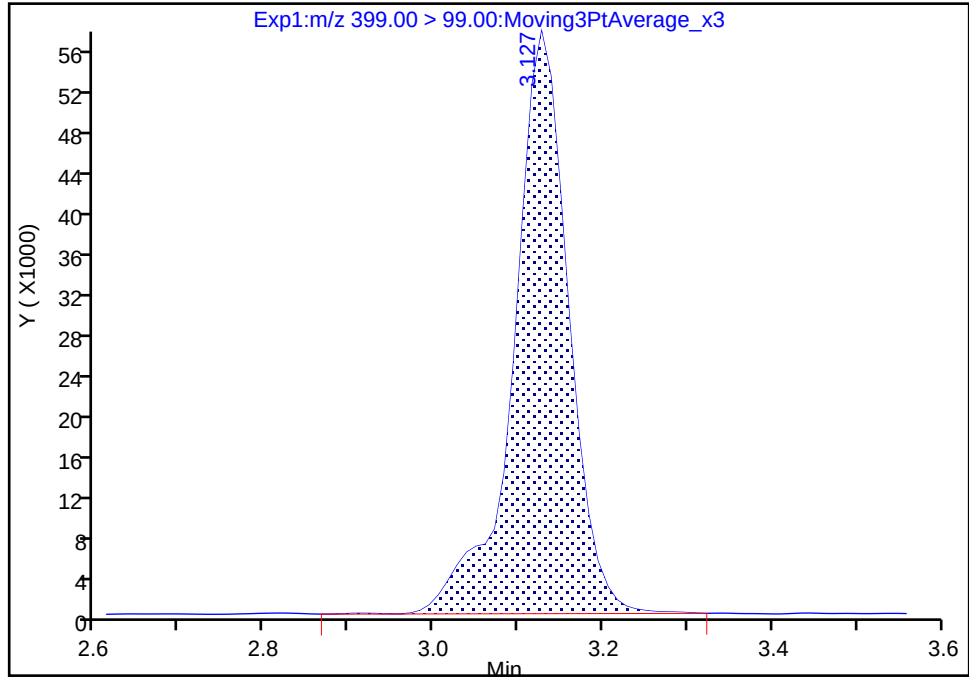
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

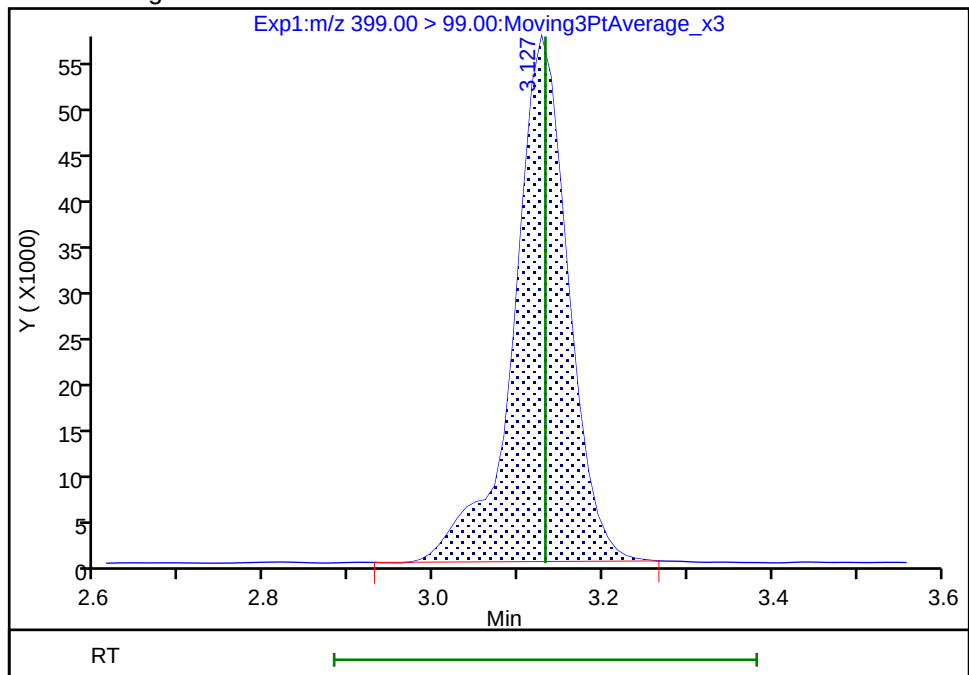
RT: 3.13
Area: 258083
Amount: 0.962140
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 255422
Amount: 0.958760
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:17:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 471 of 97811/21/2022
4:10 PM

Eurofins Burlington

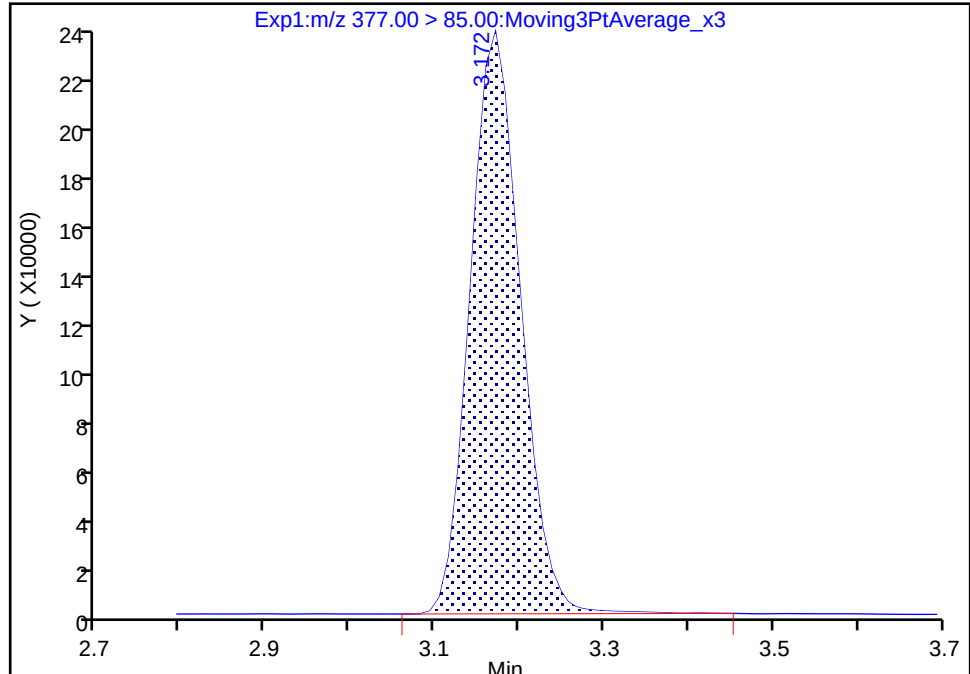
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

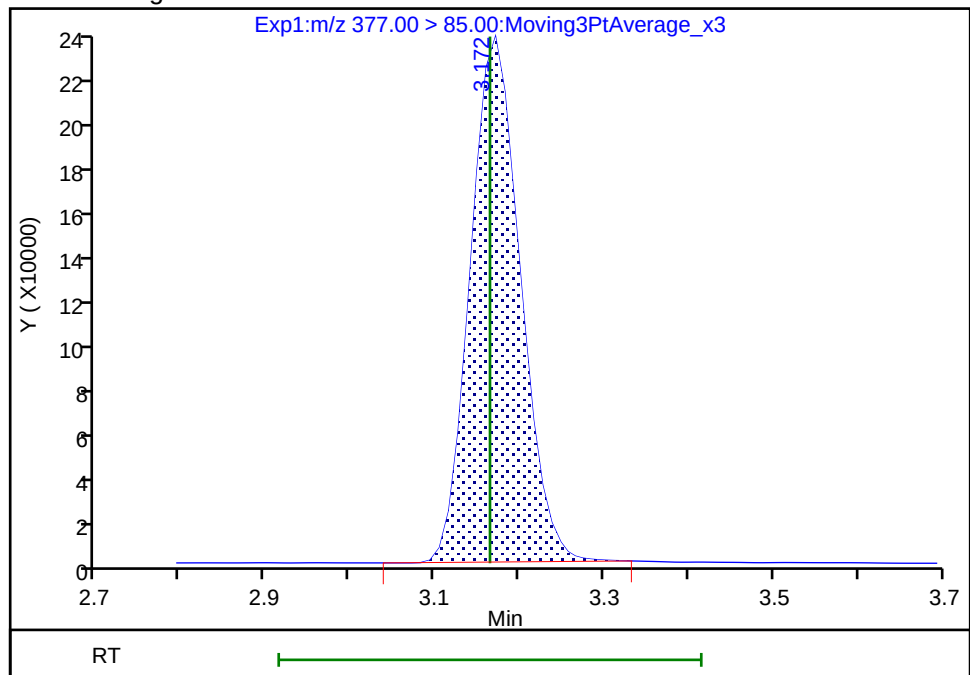
RT: 3.17
Area: 987091
Amount: 0.892800
Amount Units: ng/ml

Processing Integration Results



RT: 3.17
Area: 978799
Amount: 0.887907
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 472 of 978

11/21/2022
4:10 PM

Eurofins Burlington

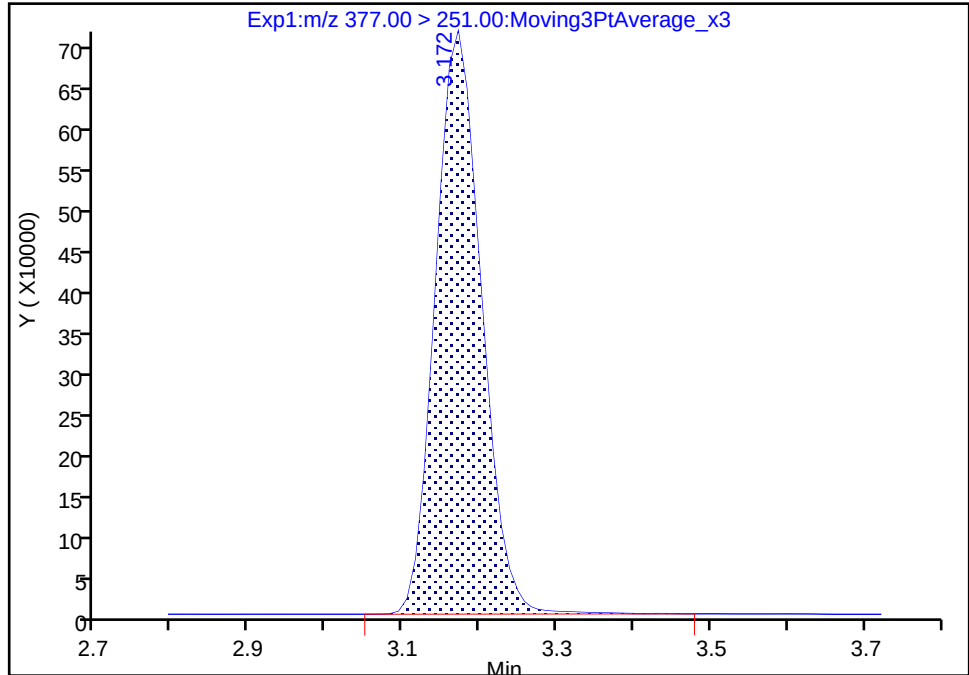
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

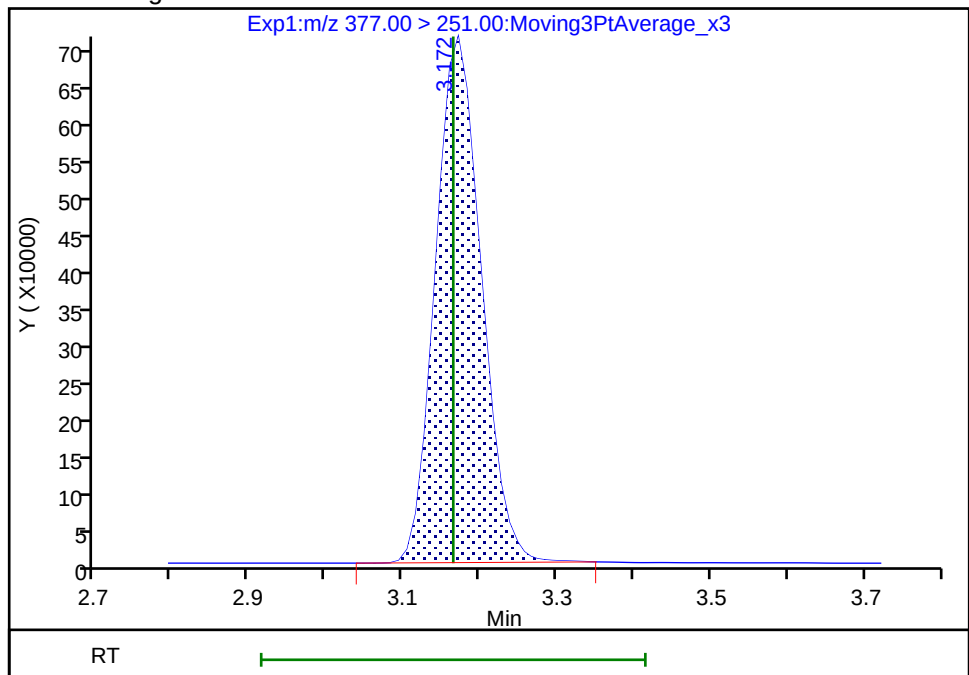
RT: 3.17
Area: 2980713
Amount: 0.892800
Amount Units: ng/ml

Processing Integration Results



RT: 3.17
Area: 2964379
Amount: 0.887907
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 473 of 97811/21/2022
4:10 PM

Eurofins Burlington

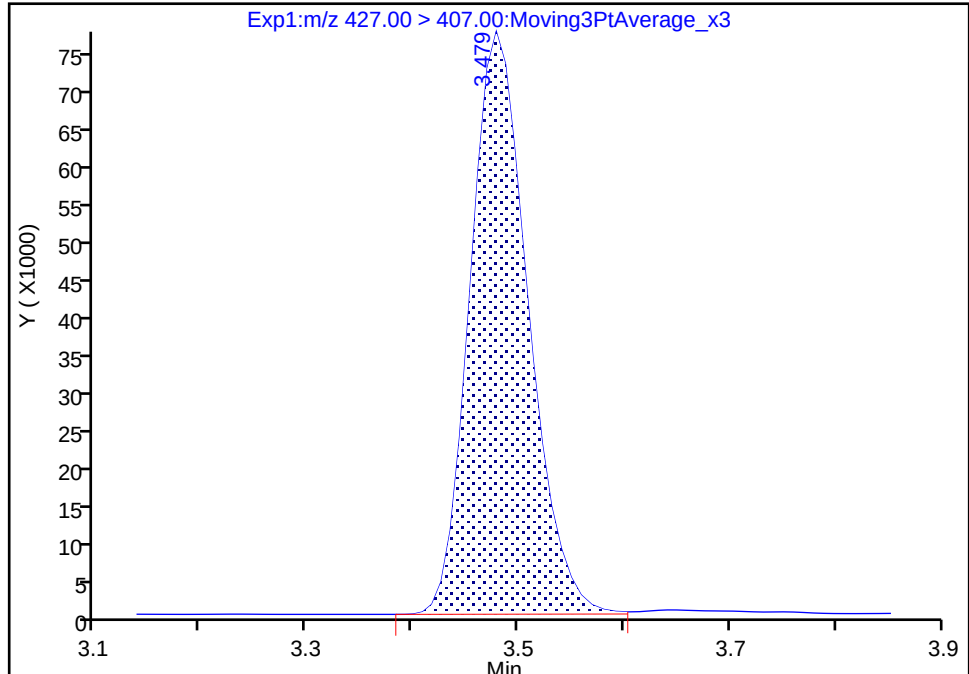
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

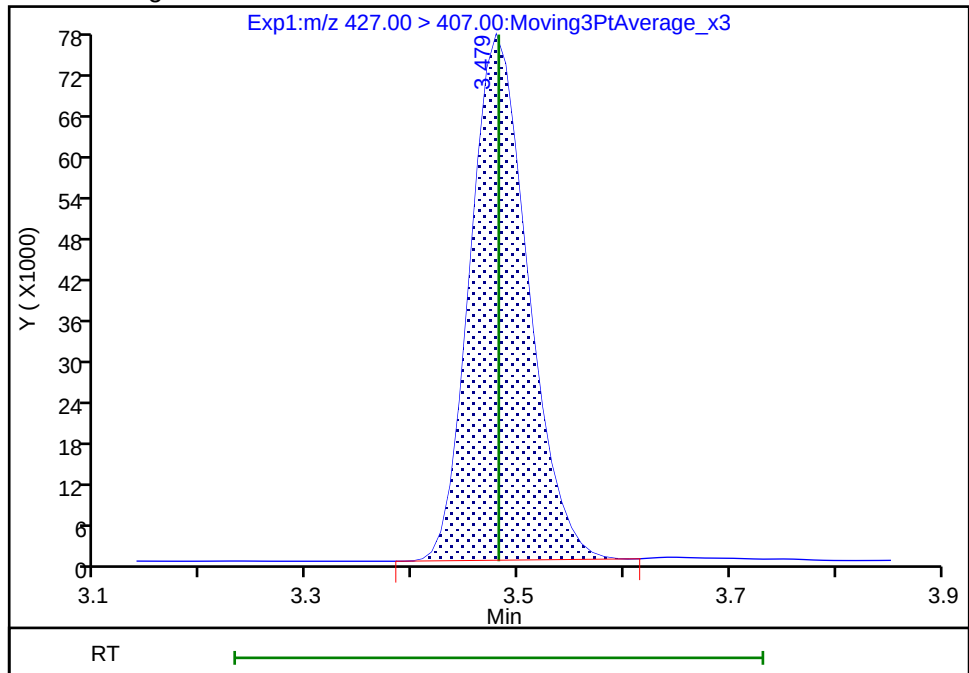
RT: 3.48
Area: 295443
Amount: 1.029465
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 293506
Amount: 1.022715
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 474 of 978

11/21/2022
4:10 PM

Eurofins Burlington

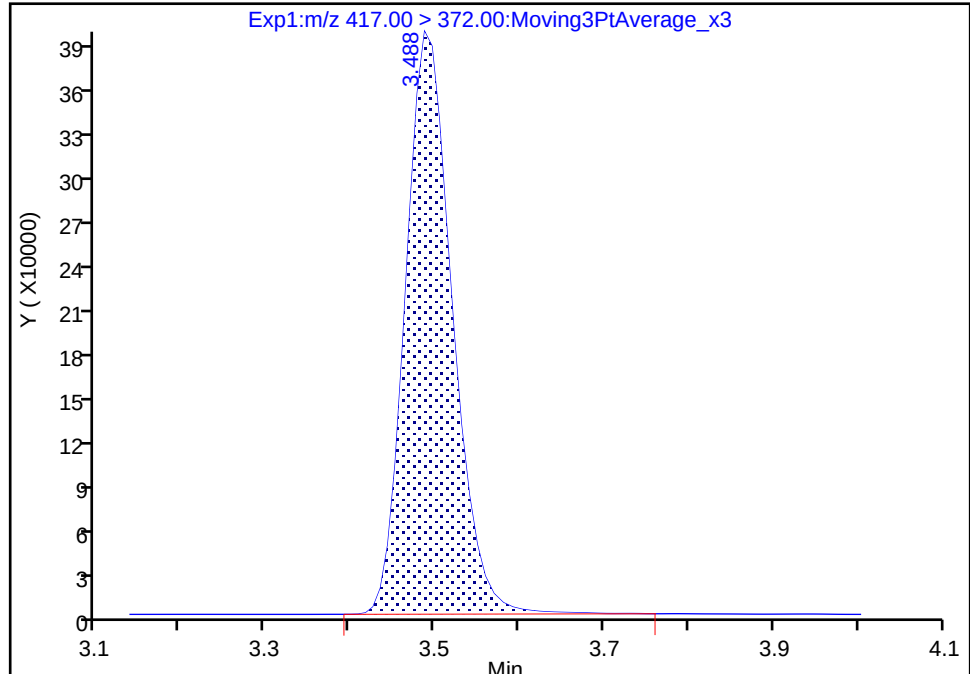
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

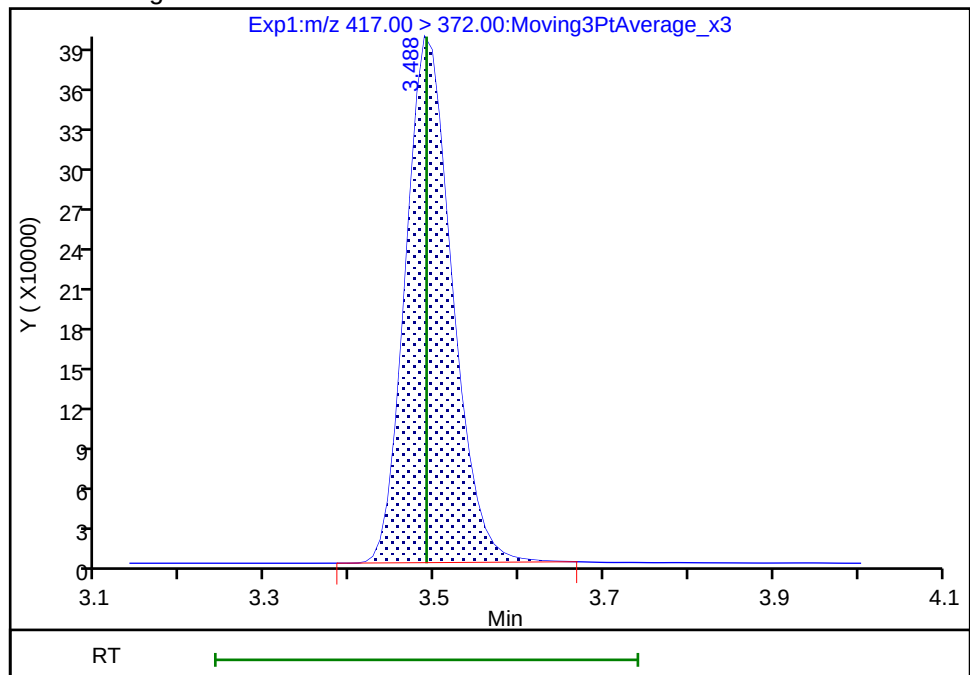
RT: 3.49
Area: 1523326
Amount: 1.126436
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 1514451
Amount: 1.119874
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 475 of 978

11/21/2022
4:10 PM

Eurofins Burlington

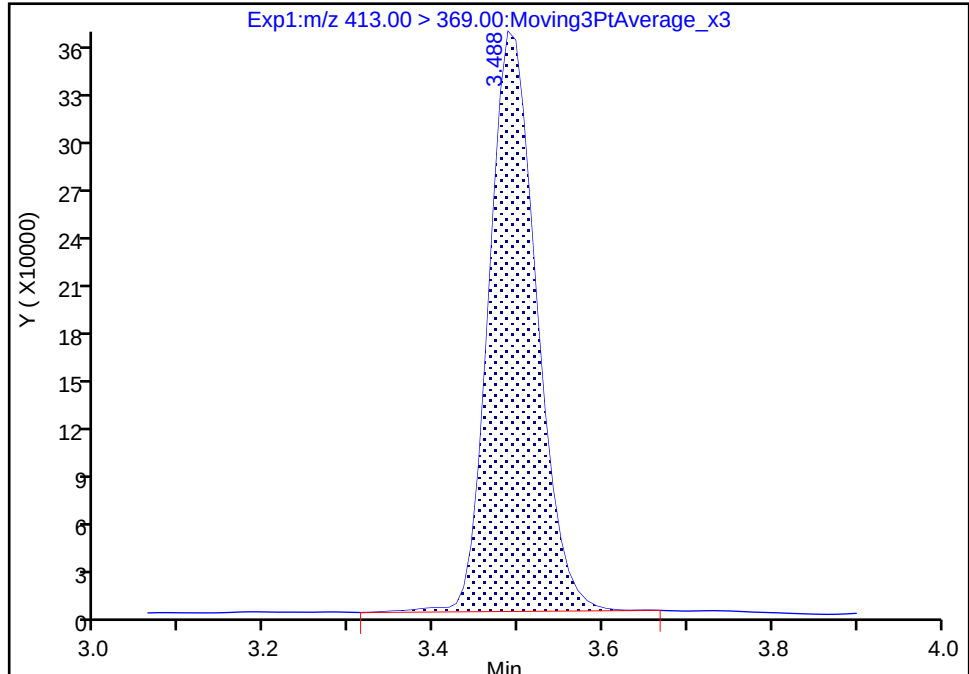
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

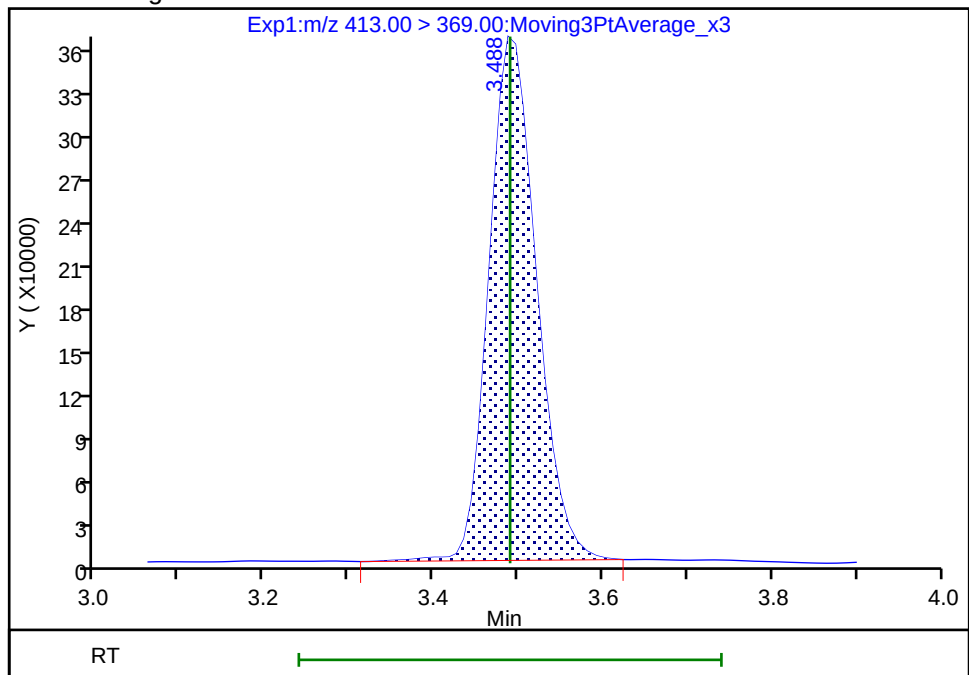
RT: 3.49
Area: 1397081
Amount: 1.018756
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 1394544
Amount: 1.016906
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 476 of 978

11/21/2022
4:10 PM

Eurofins Burlington

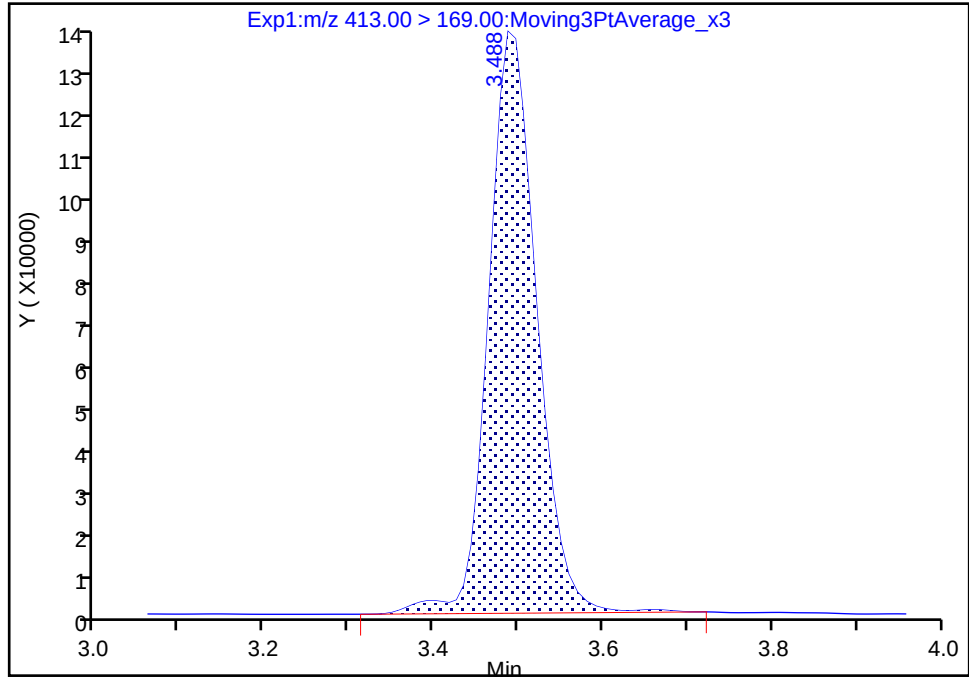
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

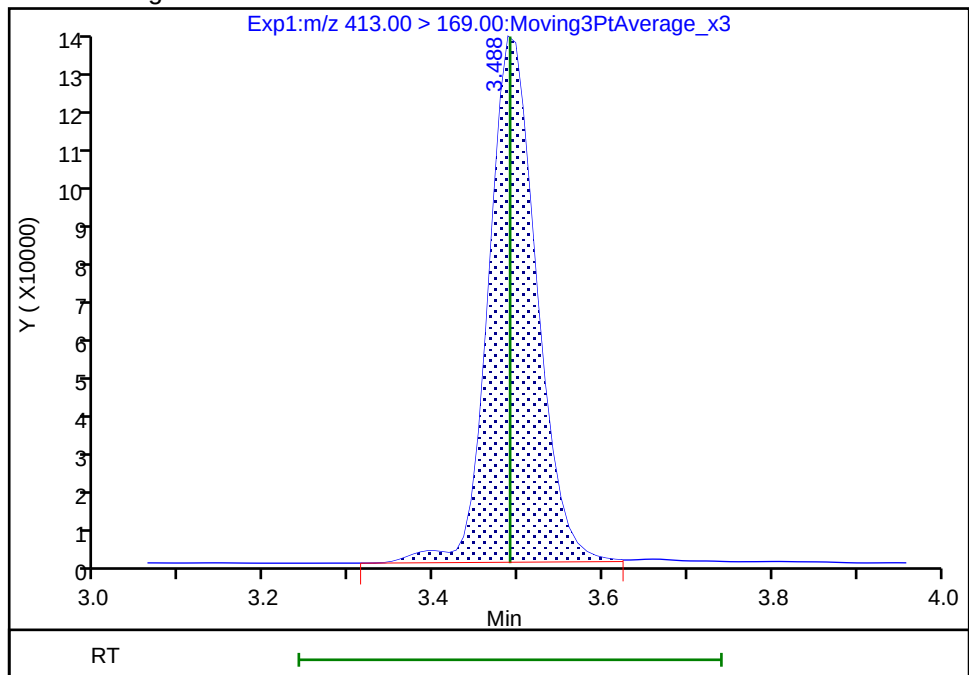
RT: 3.49
Area: 522821
Amount: 1.018756
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 521092
Amount: 1.016906
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:19:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 477 of 97811/21/2022
4:10 PM

Eurofins Burlington

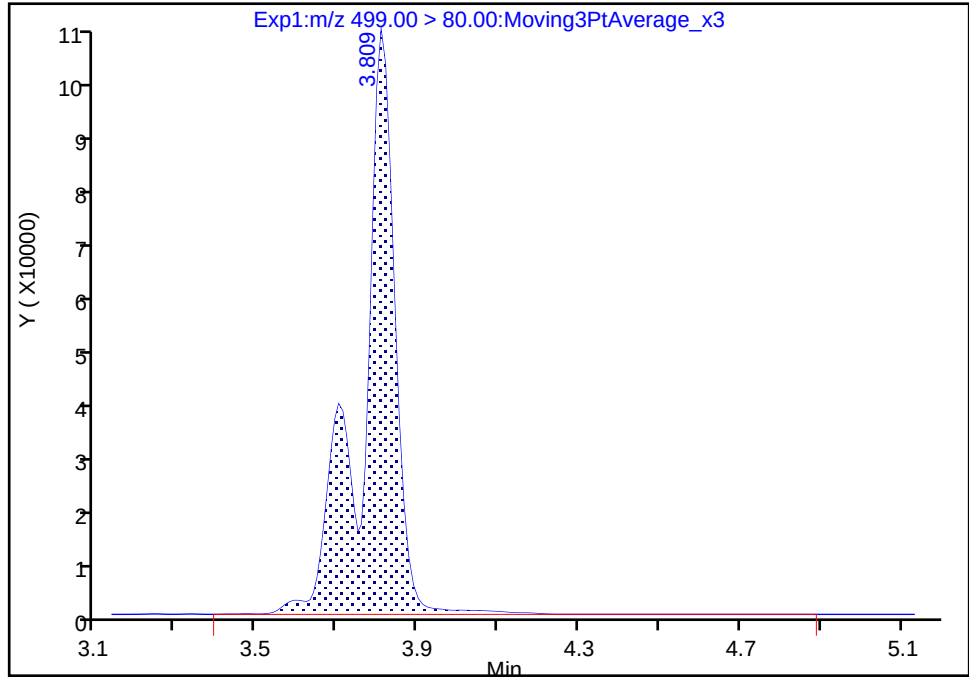
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

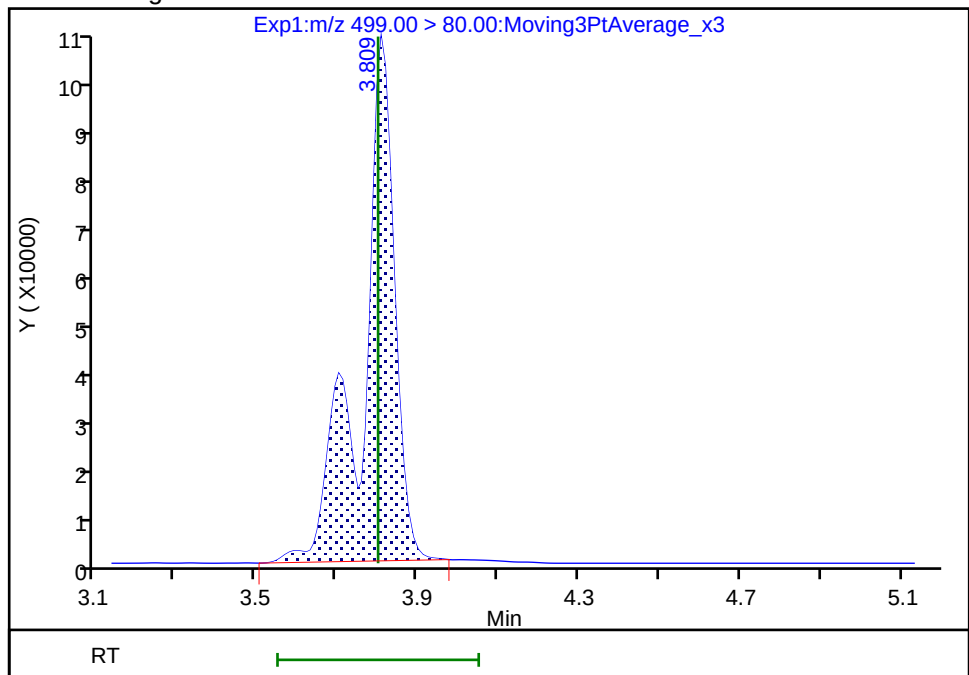
RT: 3.81
Area: 606840
Amount: 0.831579
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 589533
Amount: 0.807862
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 478 of 978

11/21/2022
4:10 PM

Eurofins Burlington

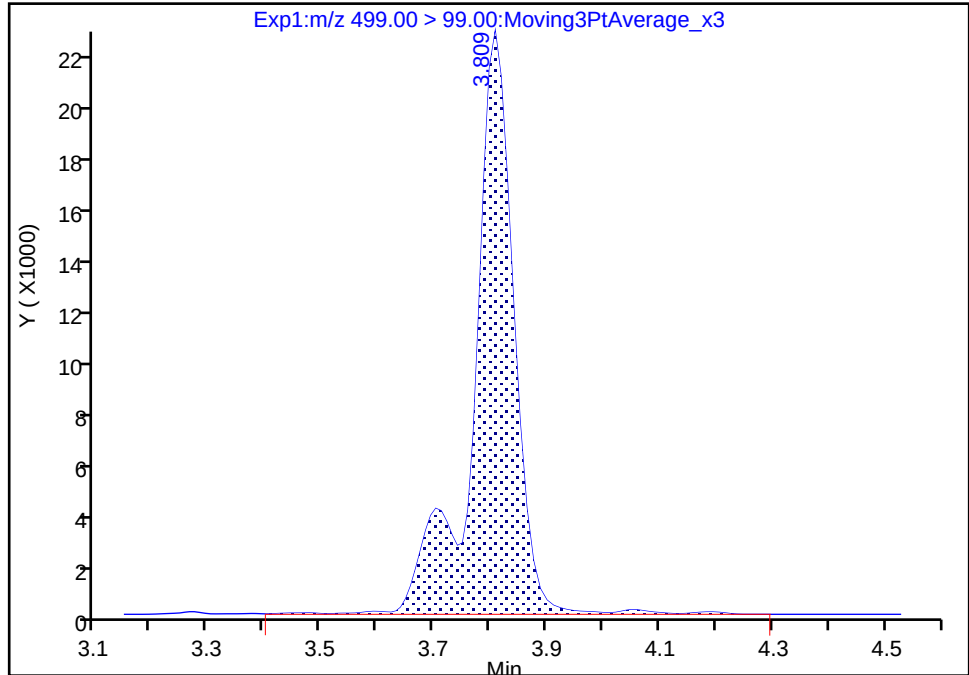
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

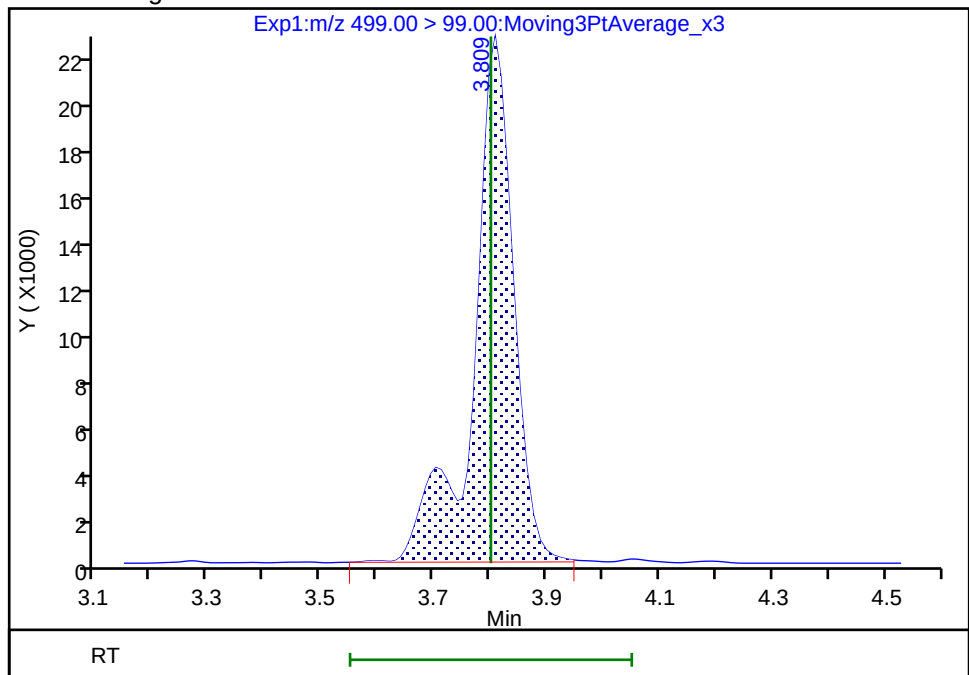
RT: 3.81
Area: 116201
Amount: 0.831579
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 113343
Amount: 0.807862
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 479 of 97811/21/2022
4:10 PM

Eurofins Burlington

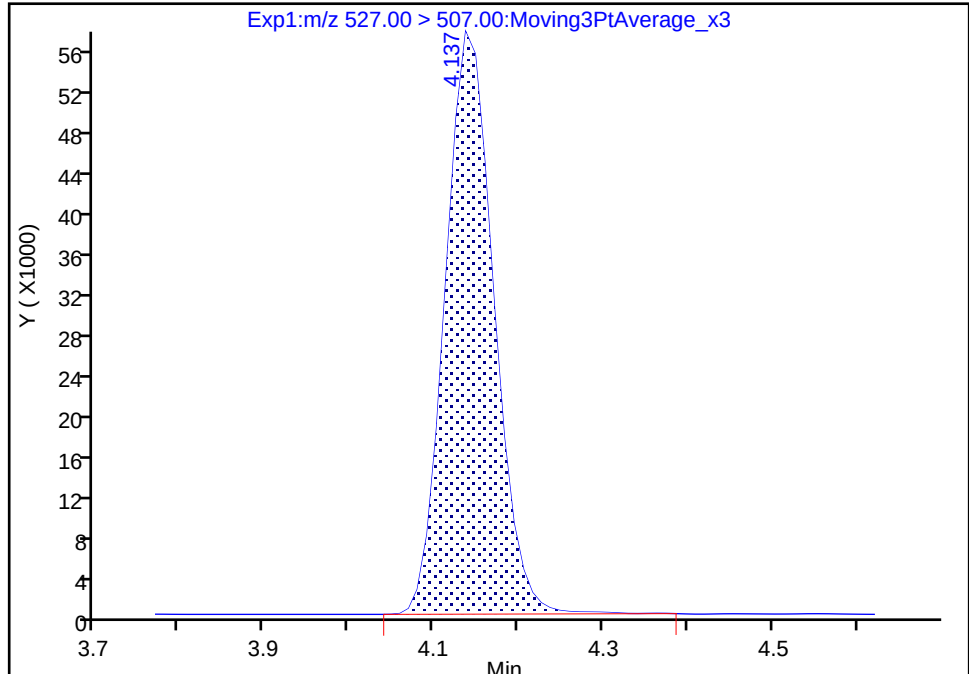
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

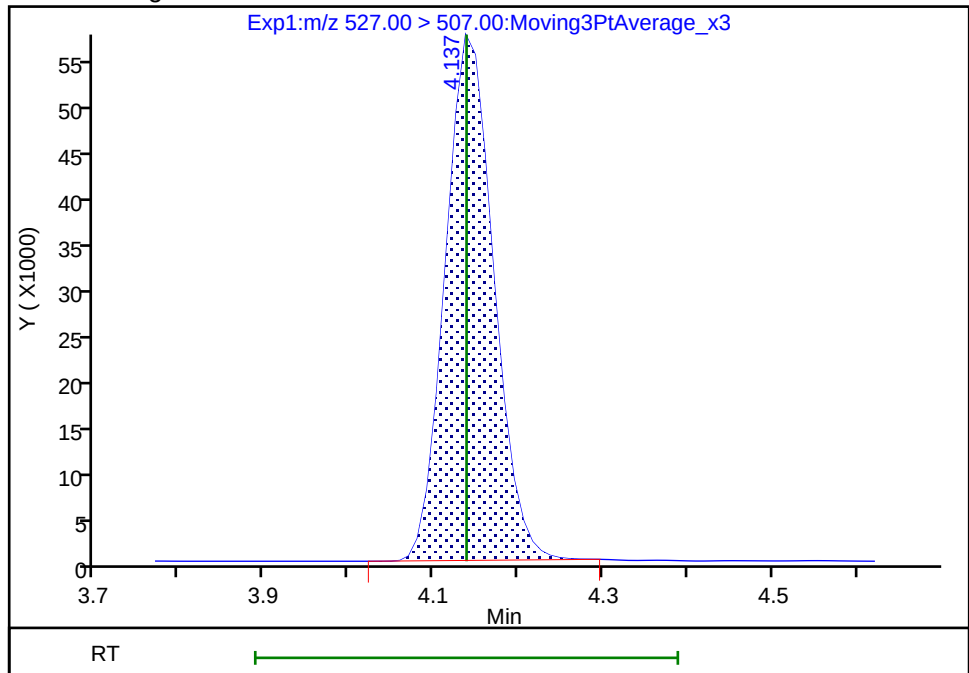
RT: 4.14
Area: 229239
Amount: 1.014229
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 227645
Amount: 1.007177
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 480 of 978

11/21/2022
4:10 PM

Eurofins Burlington

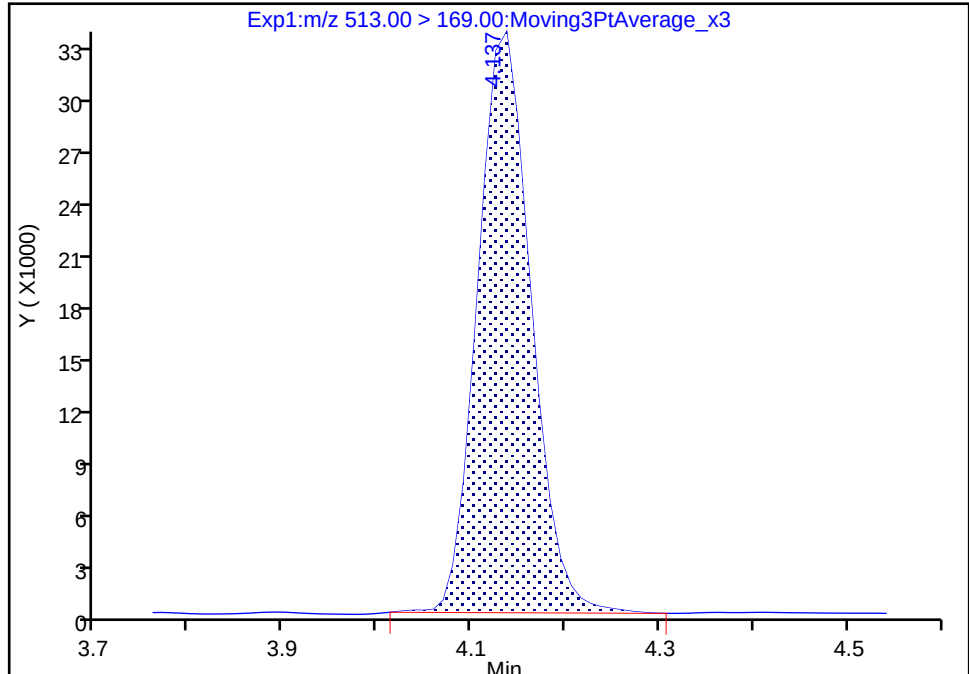
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

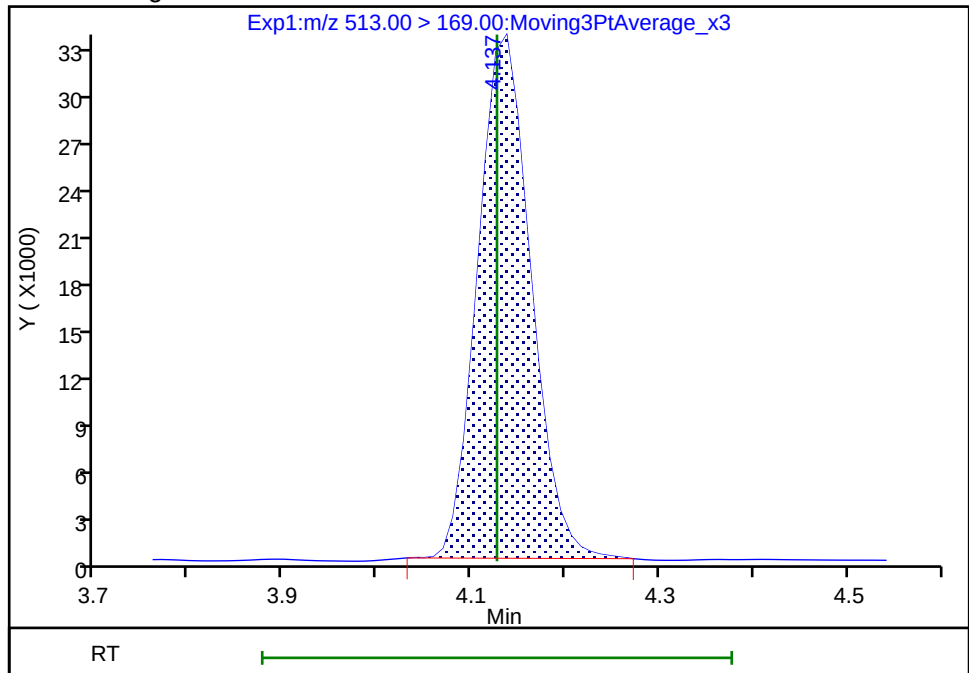
RT: 4.14
Area: 132163
Amount: 0.987391
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 130647
Amount: 0.987391
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 481 of 978

11/21/2022
4:10 PM

Eurofins Burlington

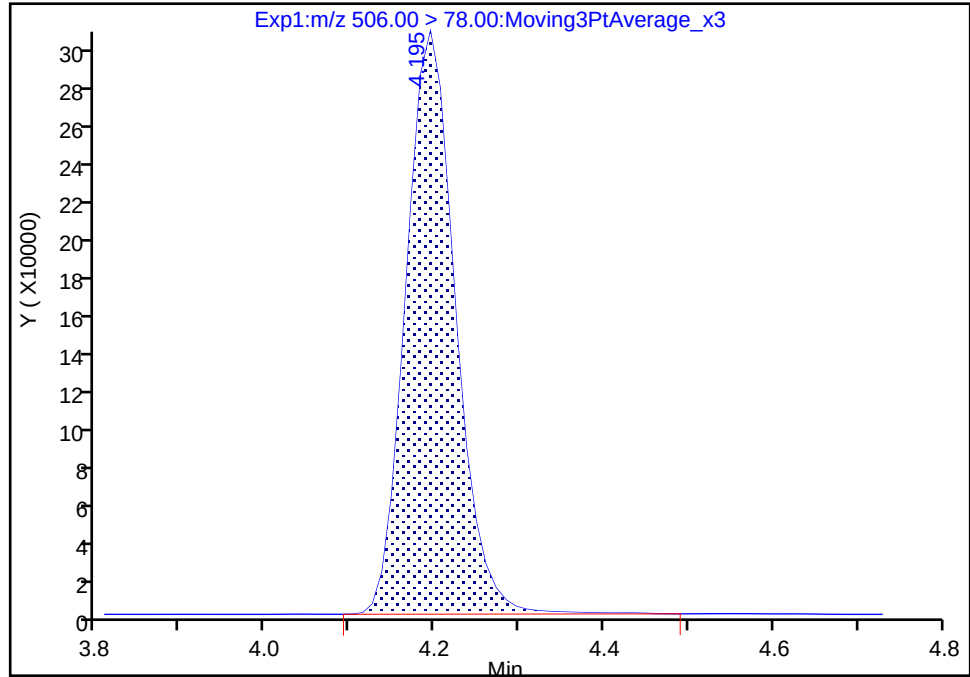
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

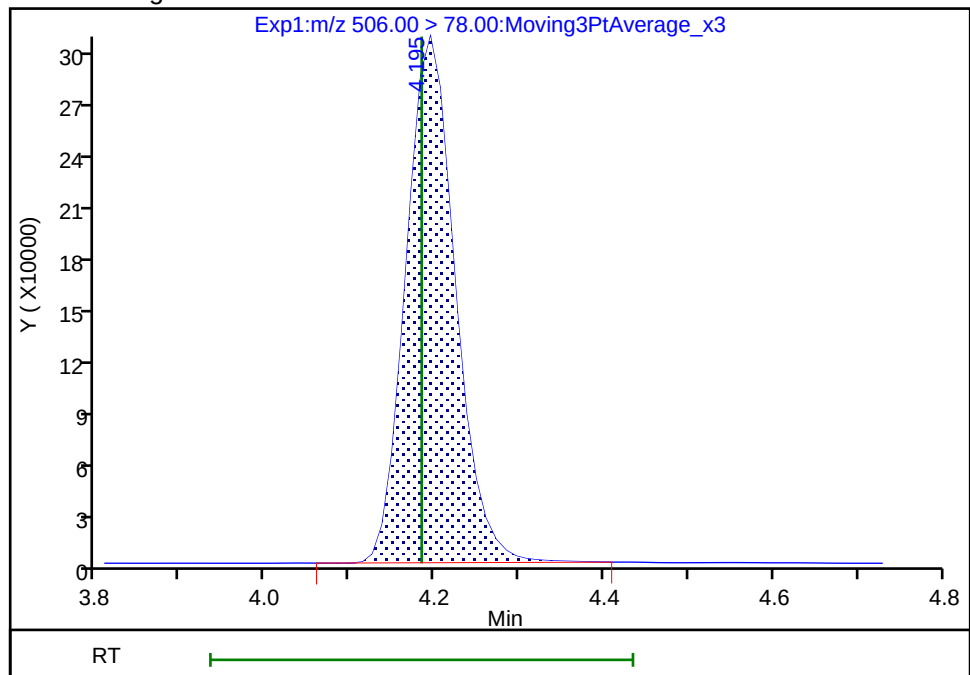
RT: 4.19
Area: 1225723
Amount: 1.164150
Amount Units: ng/ml

Processing Integration Results



RT: 4.19
Area: 1219936
Amount: 1.158654
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

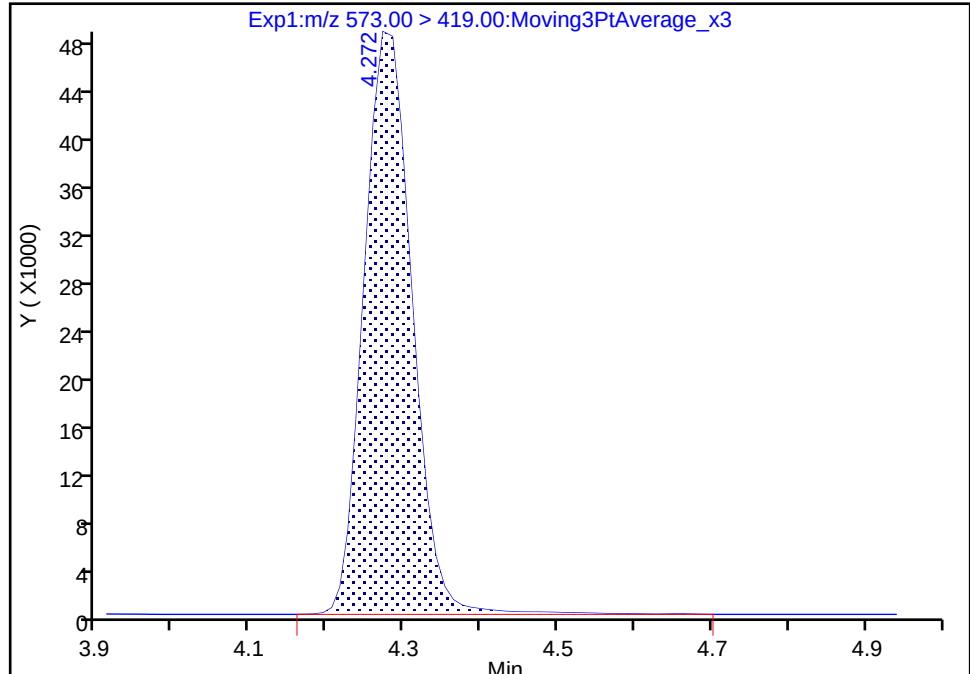
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

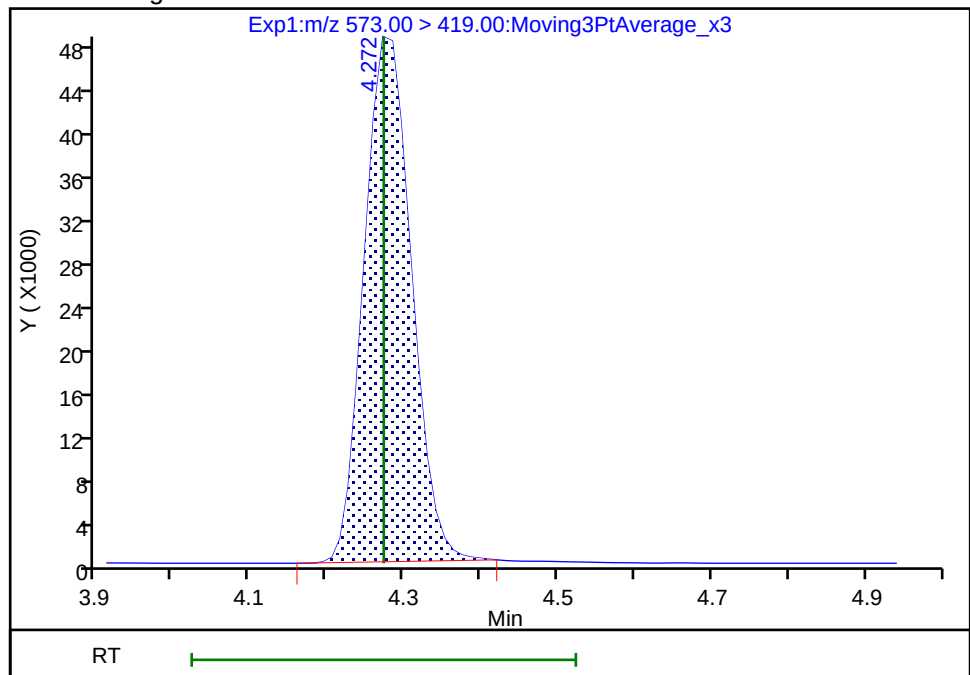
RT: 4.27
Area: 211176
Amount: 1.160199
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 207107
Amount: 1.137844
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 483 of 978

11/21/2022
4:10 PM

Eurofins Burlington

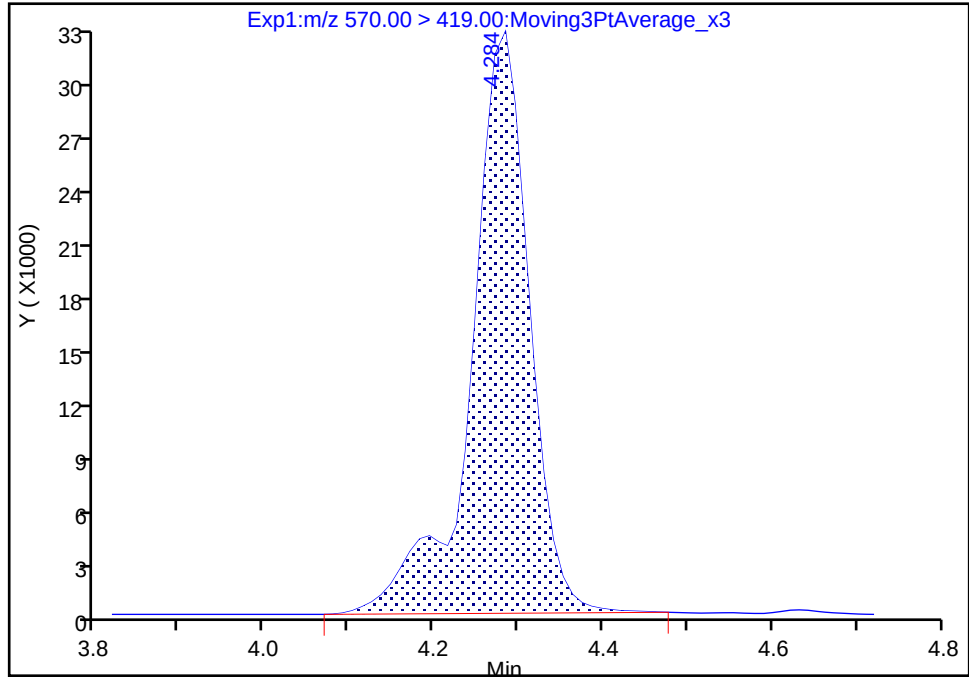
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

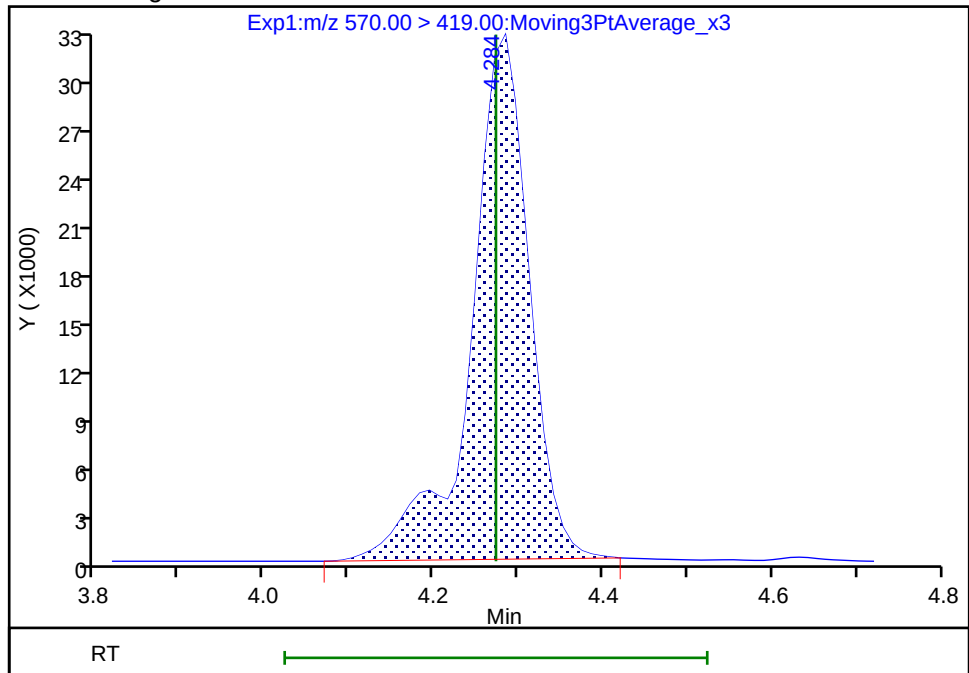
RT: 4.28
Area: 155171
Amount: 1.012694
Amount Units: ng/ml

Processing Integration Results



RT: 4.28
Area: 153897
Amount: 1.004380
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:20:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 484 of 978

11/21/2022
4:10 PM

Eurofins Burlington

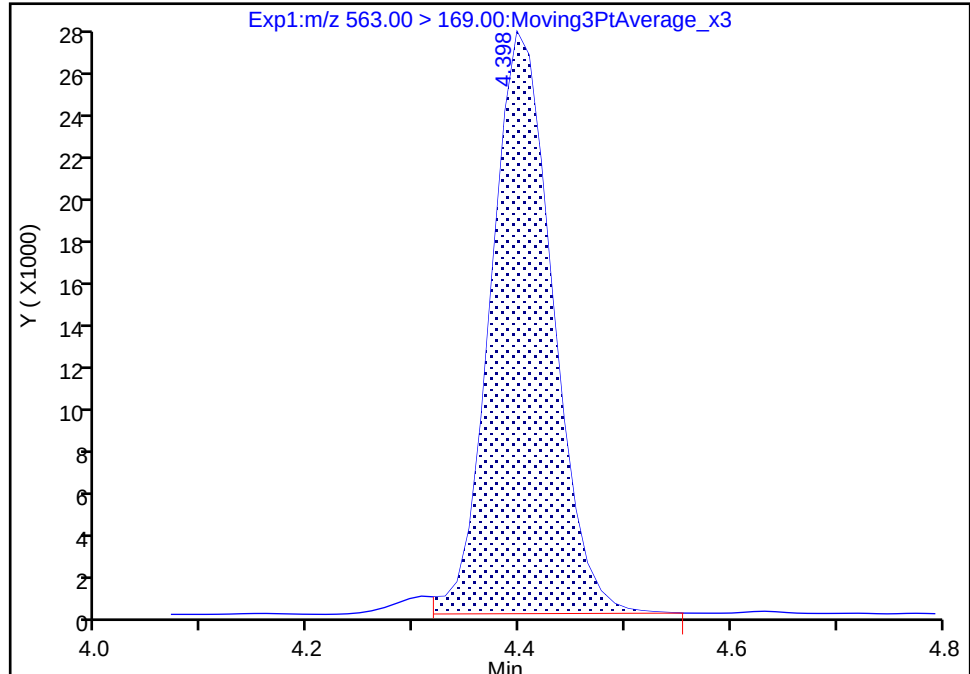
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

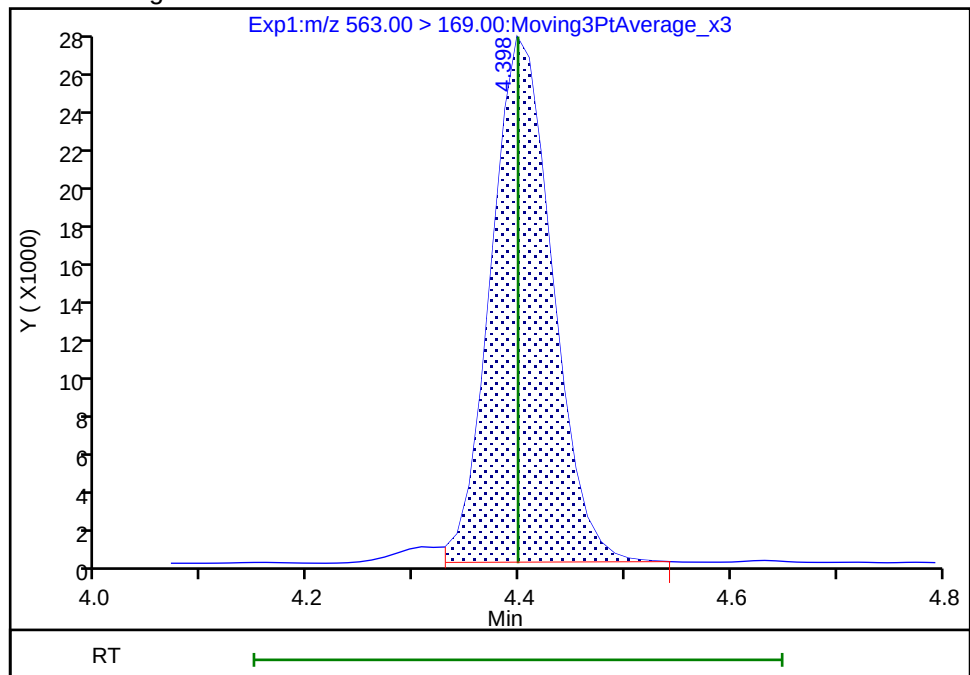
RT: 4.40
Area: 111751
Amount: 0.948380
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 110864
Amount: 0.939799
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 485 of 978

11/21/2022
4:10 PM

Eurofins Burlington

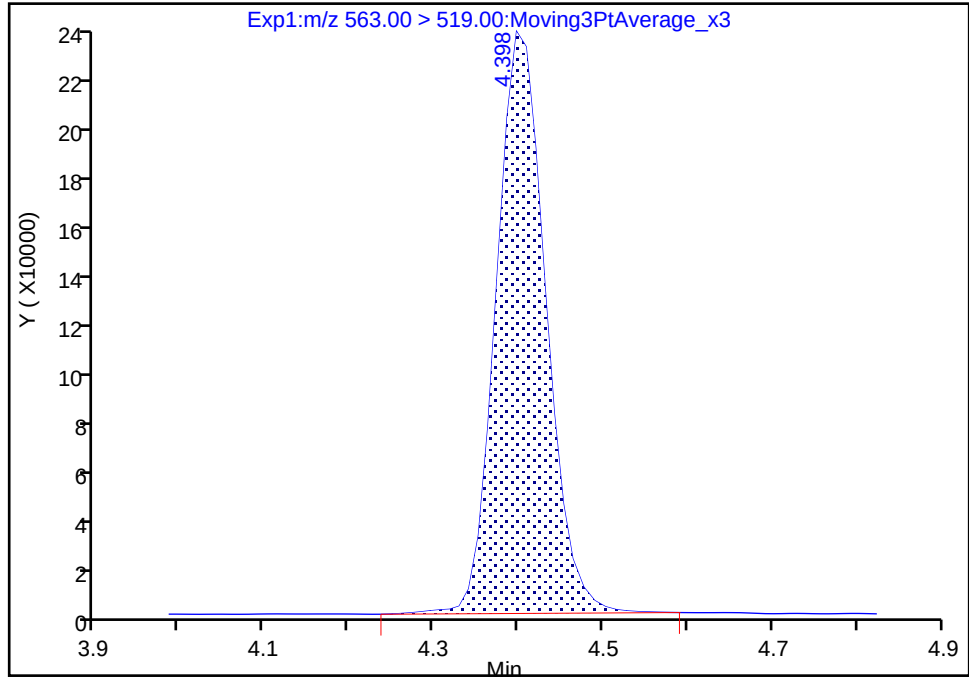
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

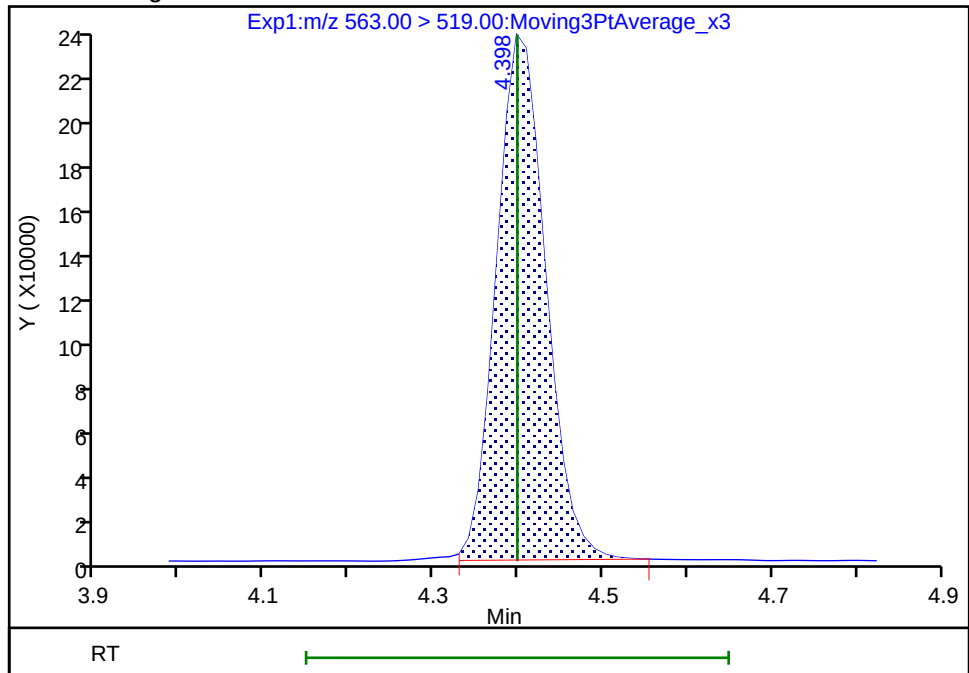
RT: 4.40
Area: 954613
Amount: 0.948380
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 945976
Amount: 0.939799
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 486 of 97811/21/2022
4:10 PM

Eurofins Burlington

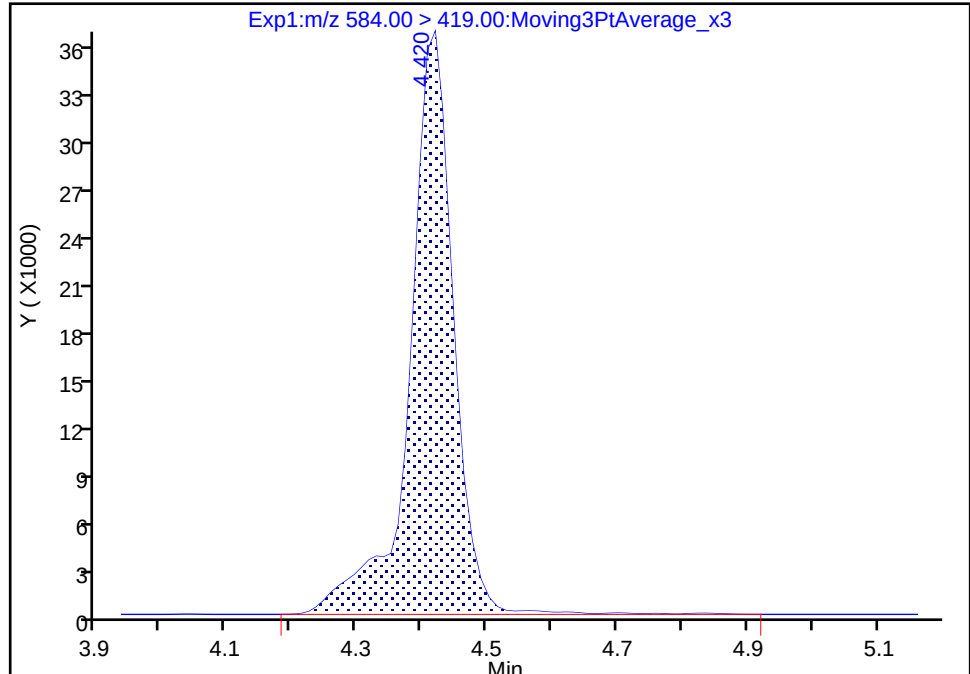
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

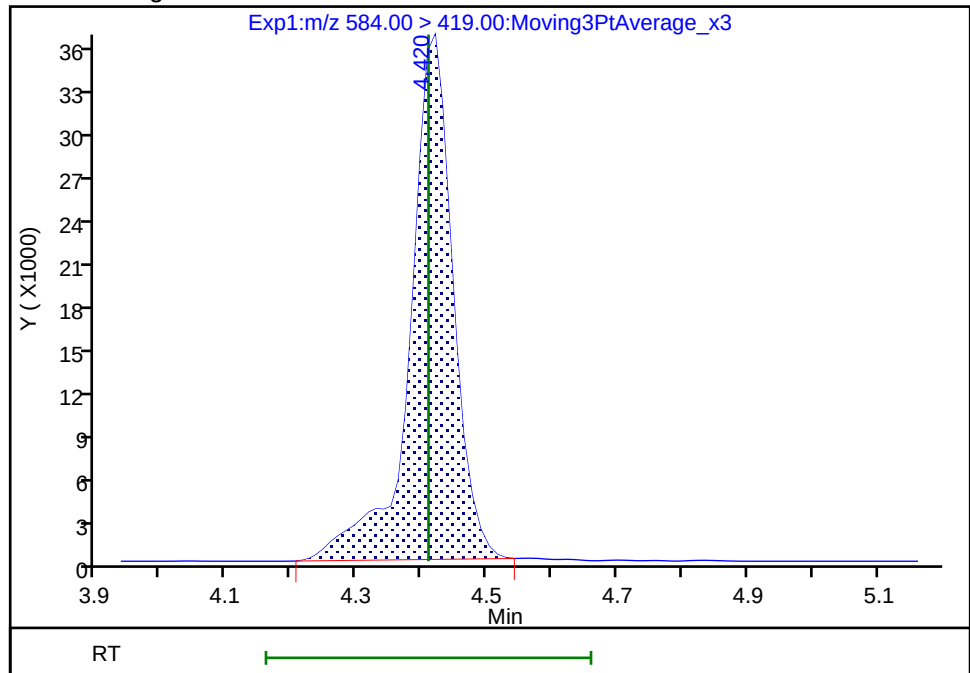
RT: 4.42
Area: 169070
Amount: 1.085954
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 165417
Amount: 1.062490
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 487 of 978

11/21/2022
4:10 PM

Eurofins Burlington

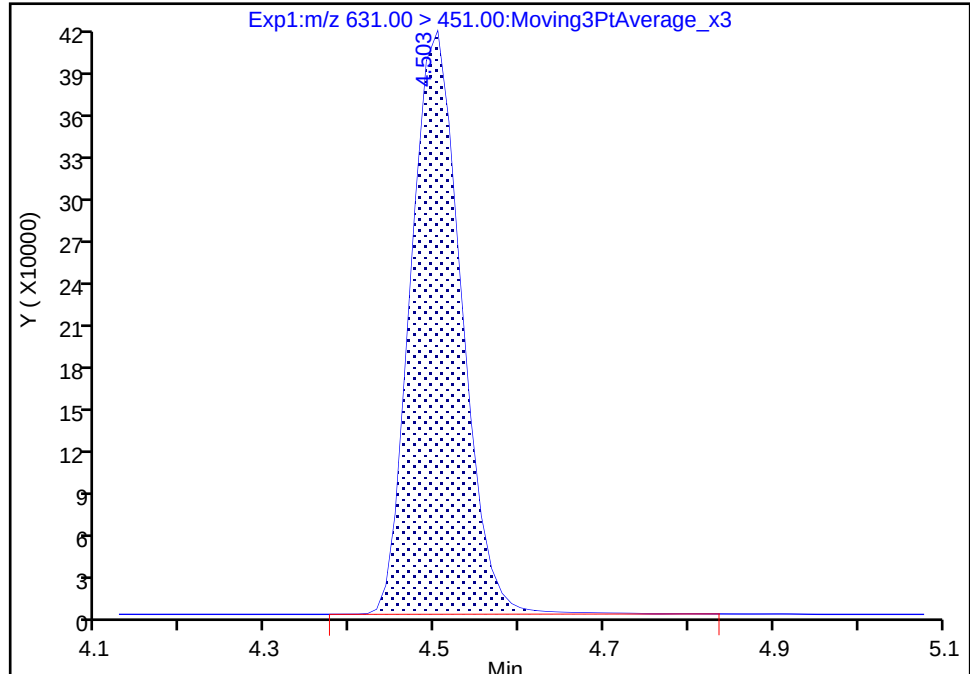
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

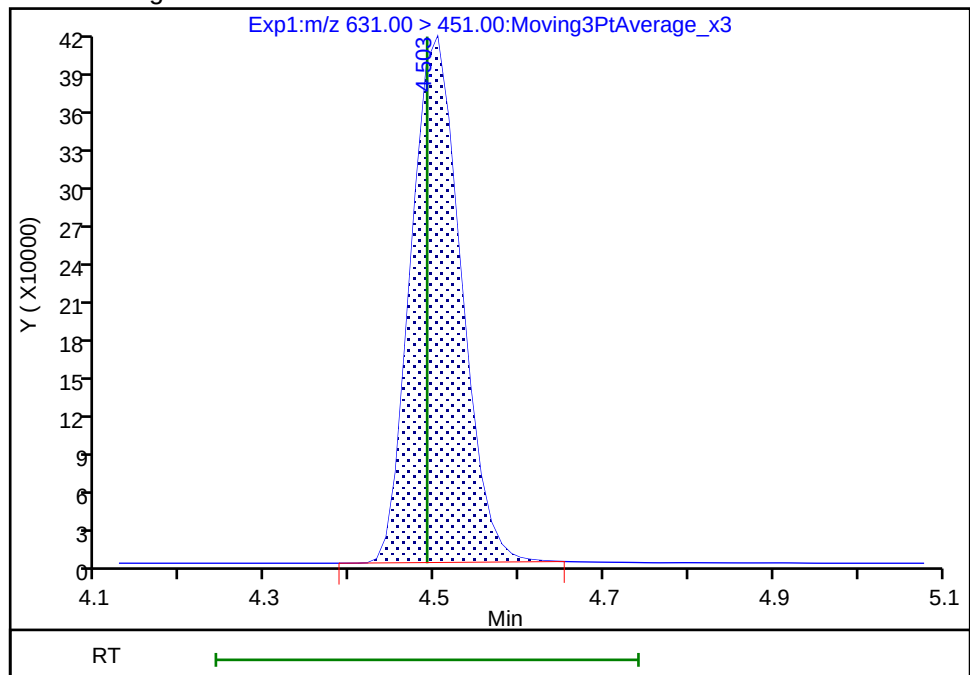
RT: 4.50
Area: 1728670
Amount: 0.907463
Amount Units: ng/ml

Processing Integration Results



RT: 4.50
Area: 1715154
Amount: 0.900368
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 488 of 978

11/21/2022
4:10 PM

Eurofins Burlington

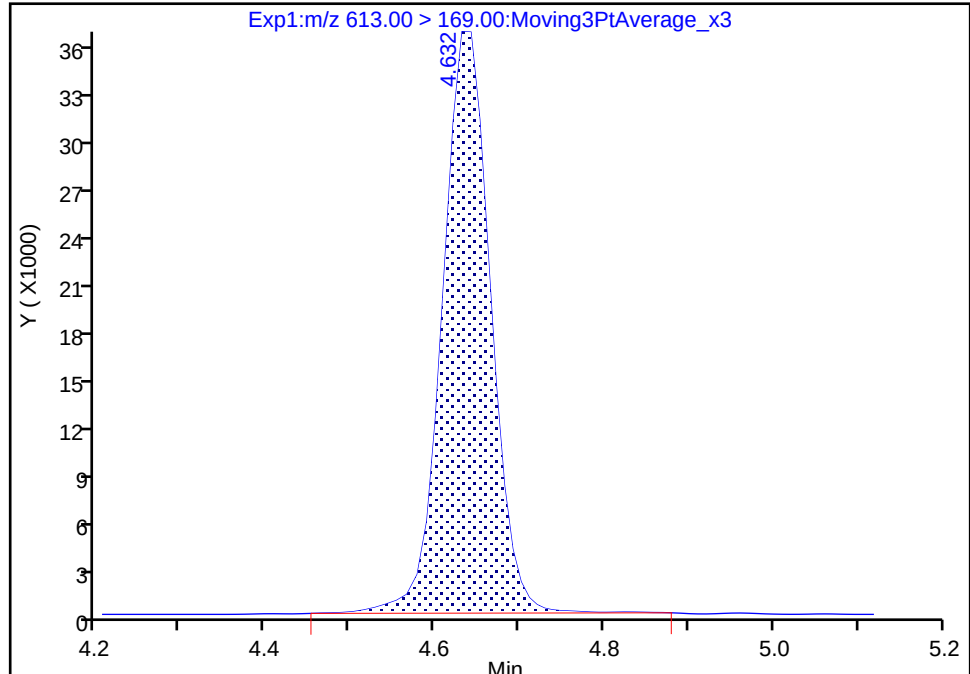
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

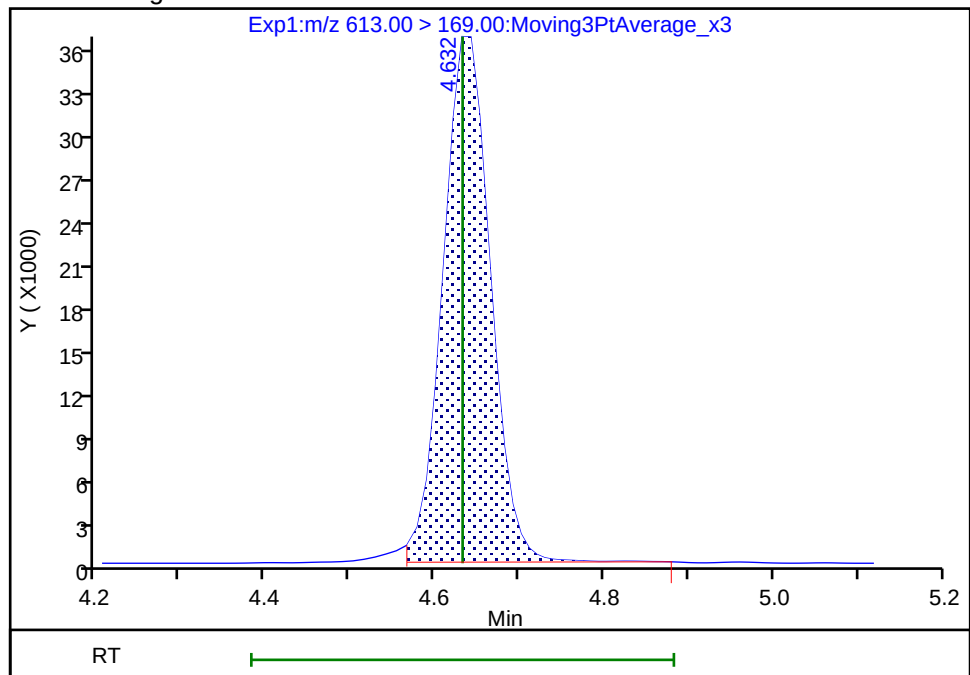
RT: 4.63
Area: 142742
Amount: 0.882229
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 140723
Amount: 0.875248
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 489 of 978

11/21/2022
4:10 PM

Eurofins Burlington

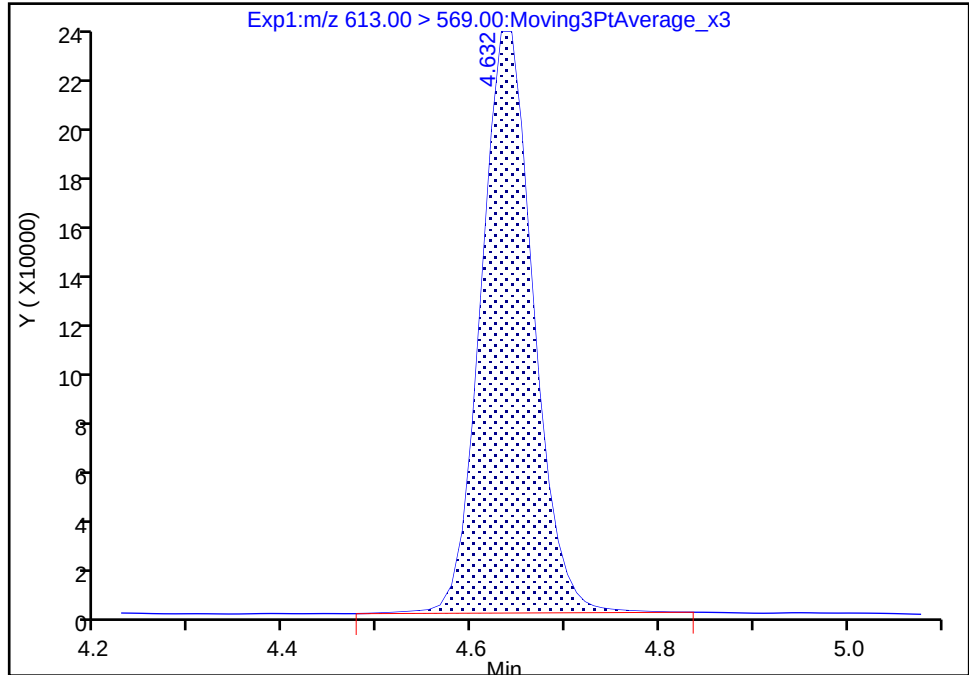
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

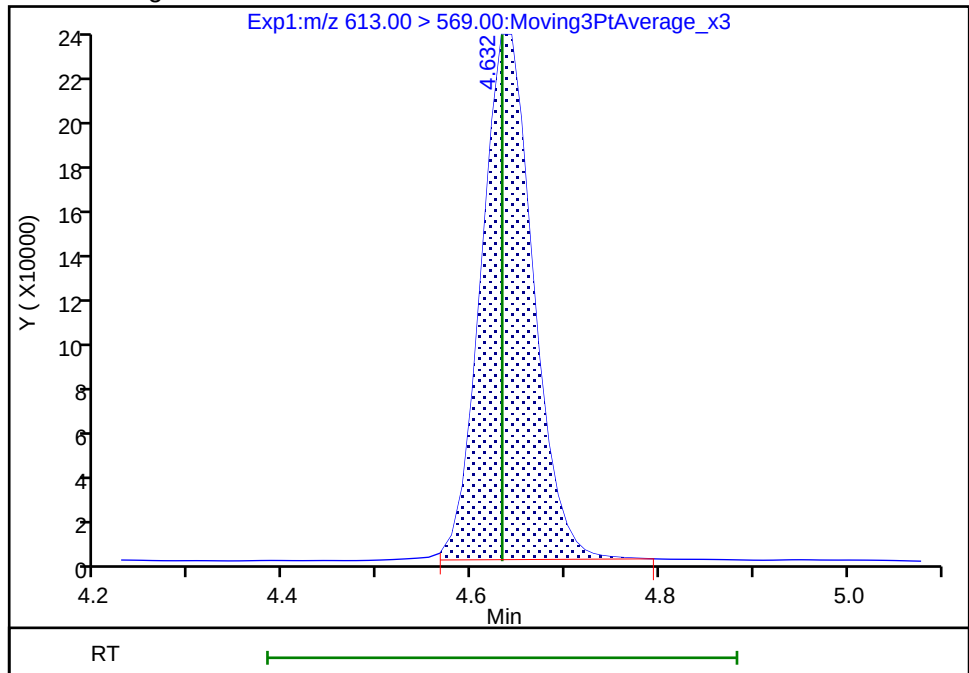
RT: 4.63
Area: 918867
Amount: 0.882229
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 911596
Amount: 0.875248
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 490 of 97811/21/2022
4:10 PM

Eurofins Burlington

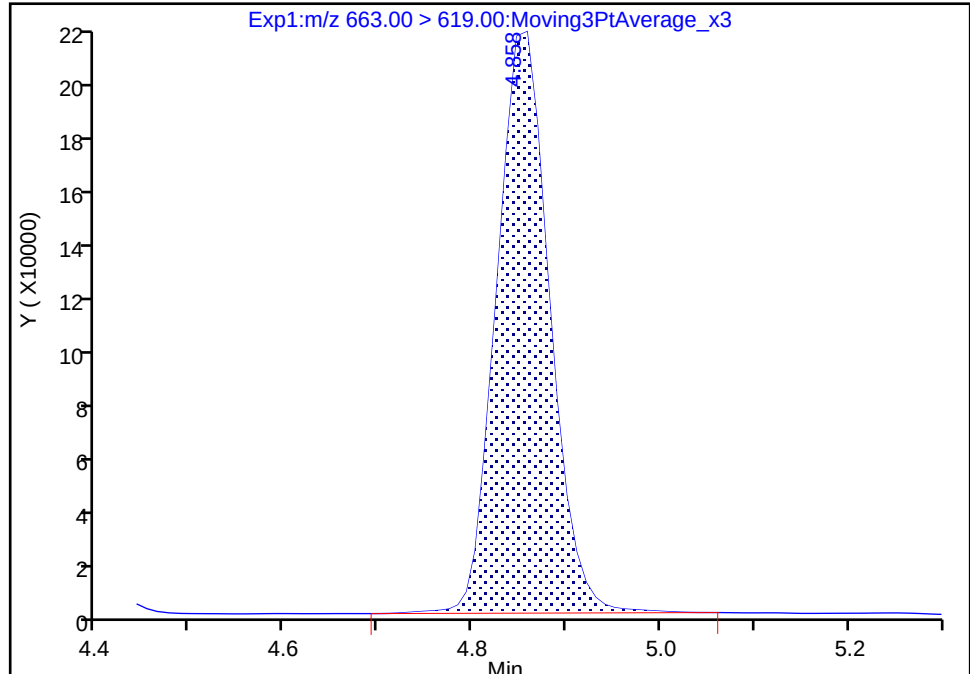
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

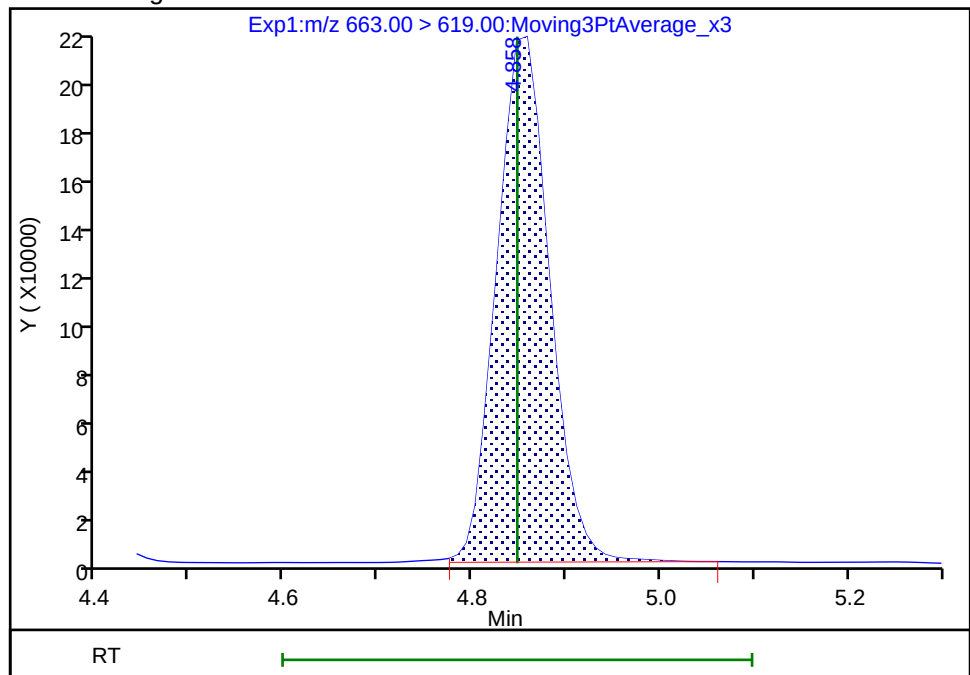
RT: 4.86
Area: 840561
Amount: 0.880583
Amount Units: ng/ml

Processing Integration Results



RT: 4.86
Area: 837959
Amount: 0.877857
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:21:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 491 of 978

11/21/2022
4:10 PM

Eurofins Burlington

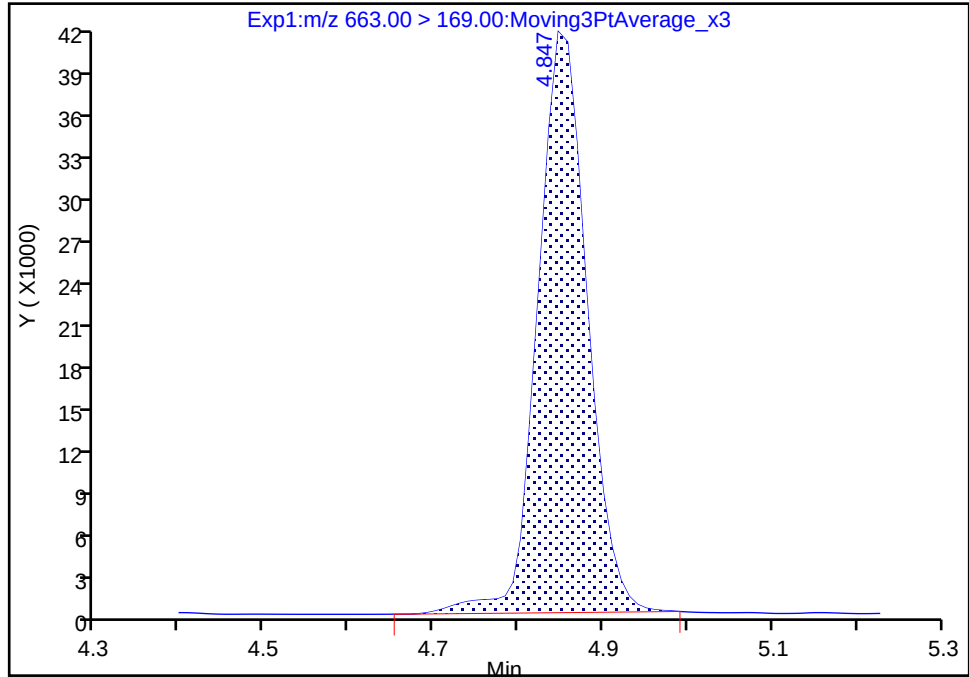
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

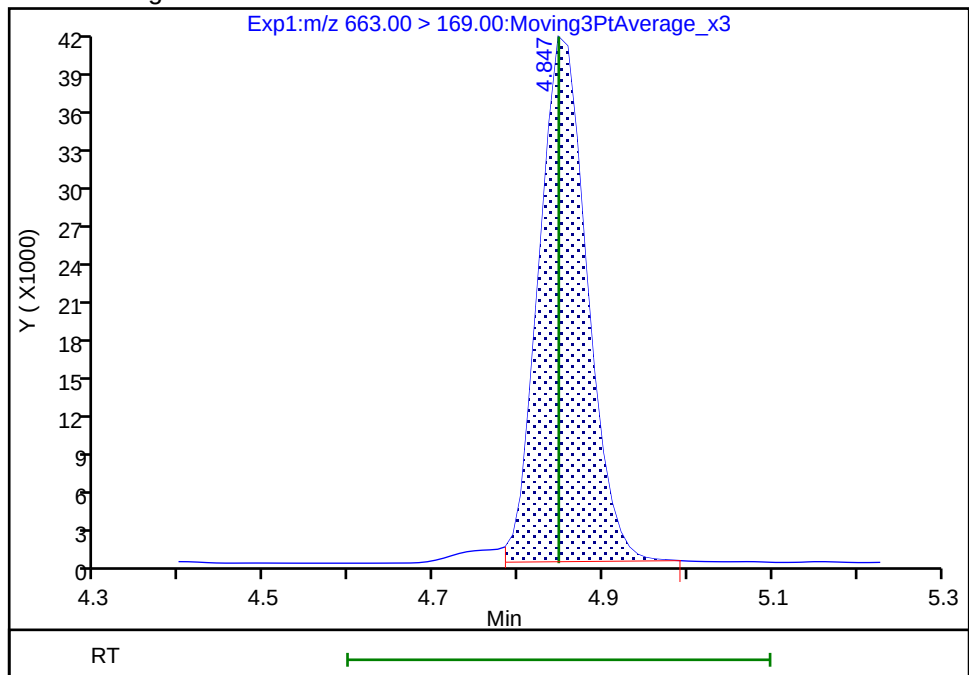
RT: 4.85
Area: 167923
Amount: 0.880583
Amount Units: ng/ml

Processing Integration Results



RT: 4.85
Area: 163913
Amount: 0.877857
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 492 of 97811/21/2022
4:10 PM

Eurofins Burlington

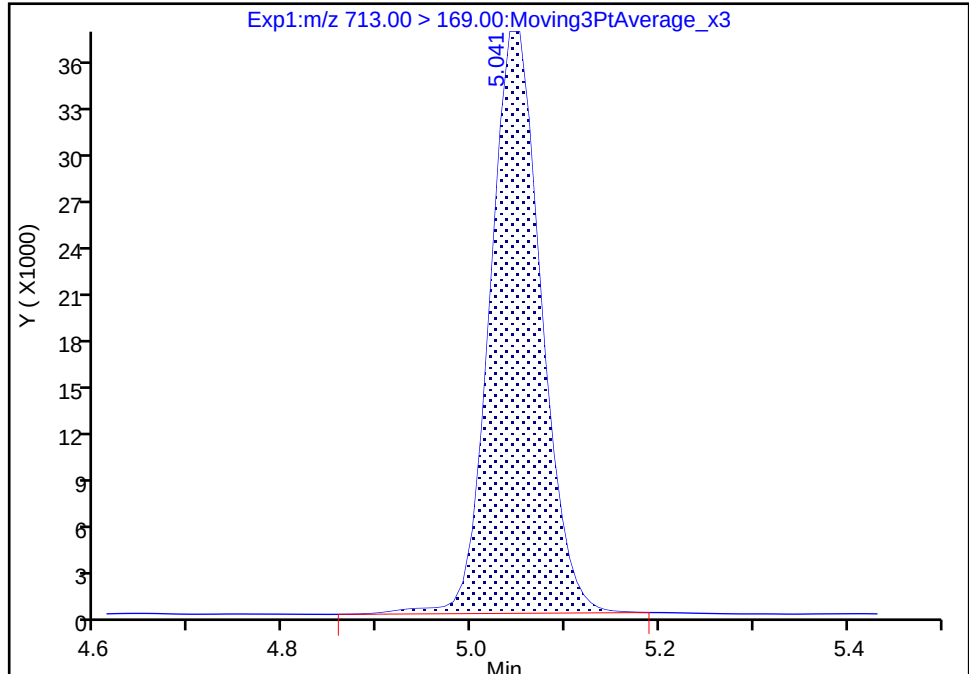
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

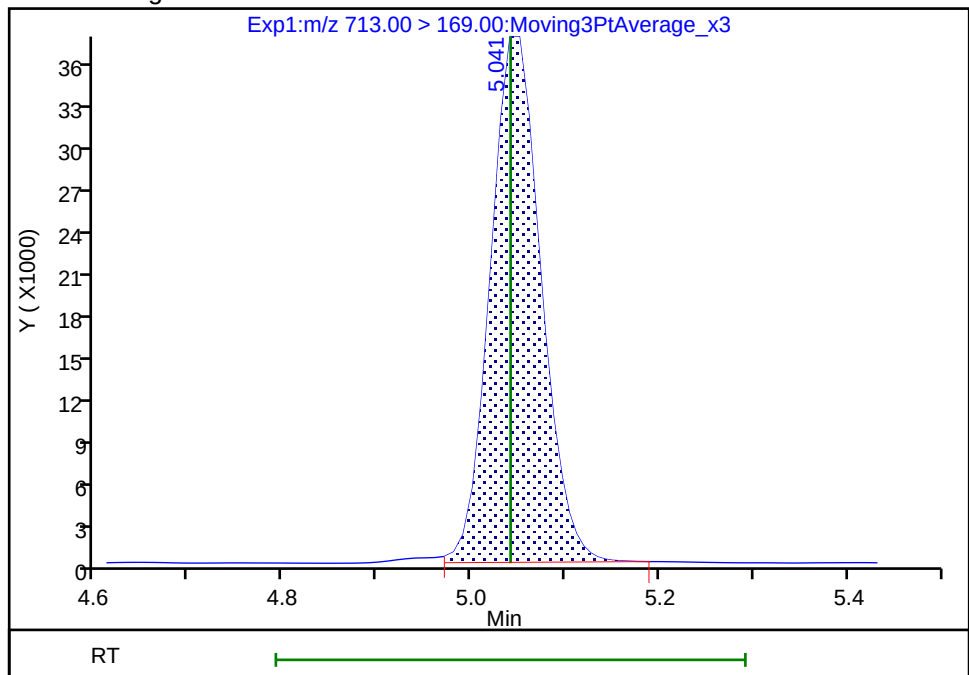
RT: 5.04
Area: 141547
Amount: 1.092641
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 140328
Amount: 1.083231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 493 of 978

11/21/2022
4:10 PM

Eurofins Burlington

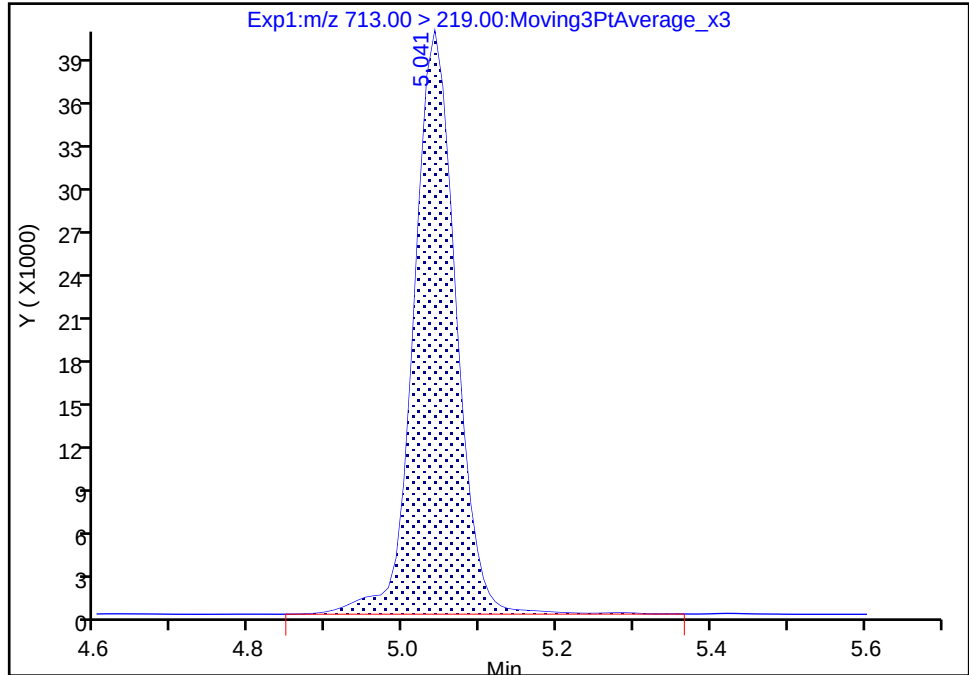
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

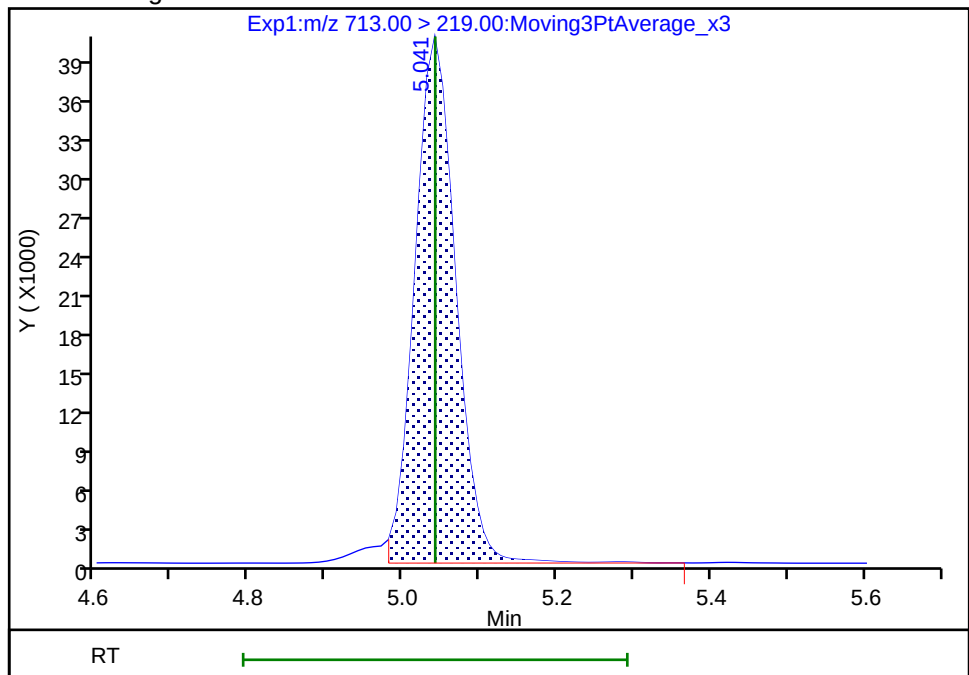
RT: 5.04
Area: 154985
Amount: 1.092641
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 150531
Amount: 1.083231
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 494 of 97811/21/2022
4:10 PM

Eurofins Burlington

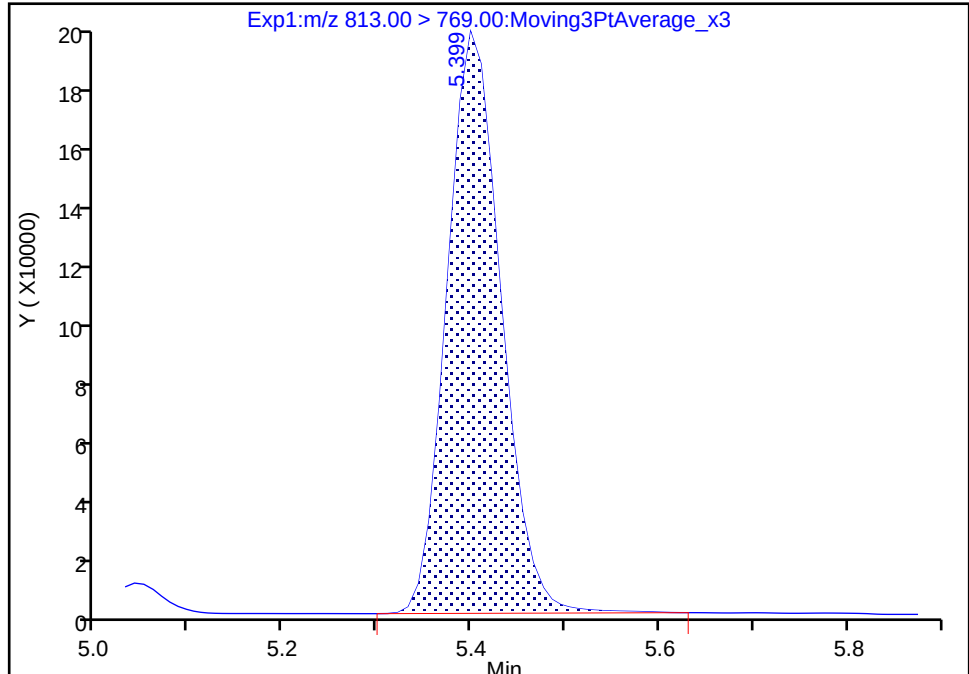
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

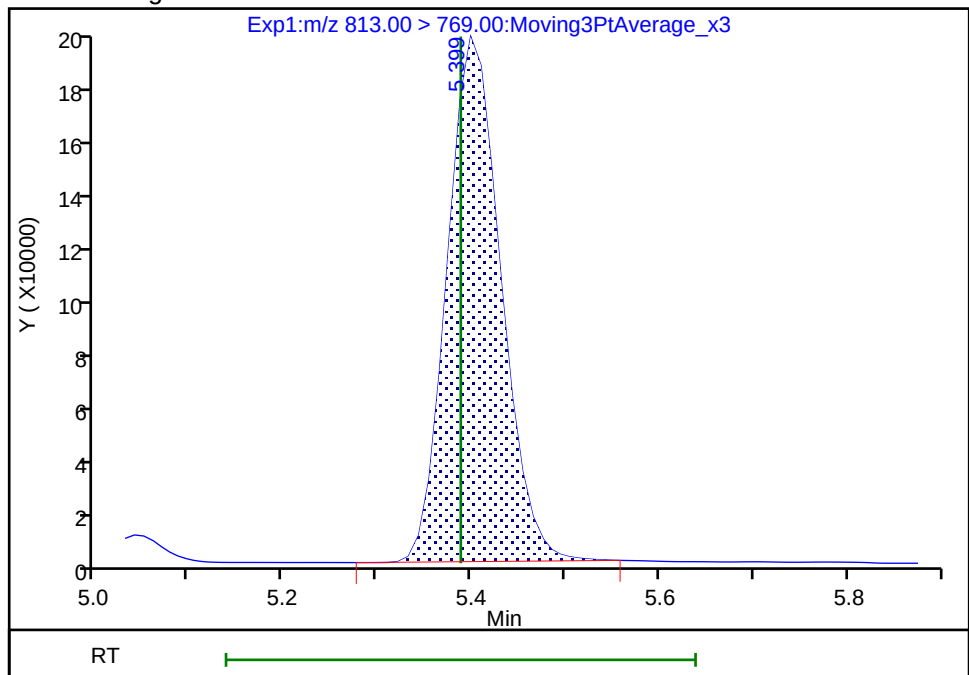
RT: 5.40
Area: 793340
Amount: 1.010561
Amount Units: ng/ml

Processing Integration Results



RT: 5.40
Area: 787214
Amount: 1.002547
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 495 of 978

11/21/2022
4:10 PM

Eurofins Burlington

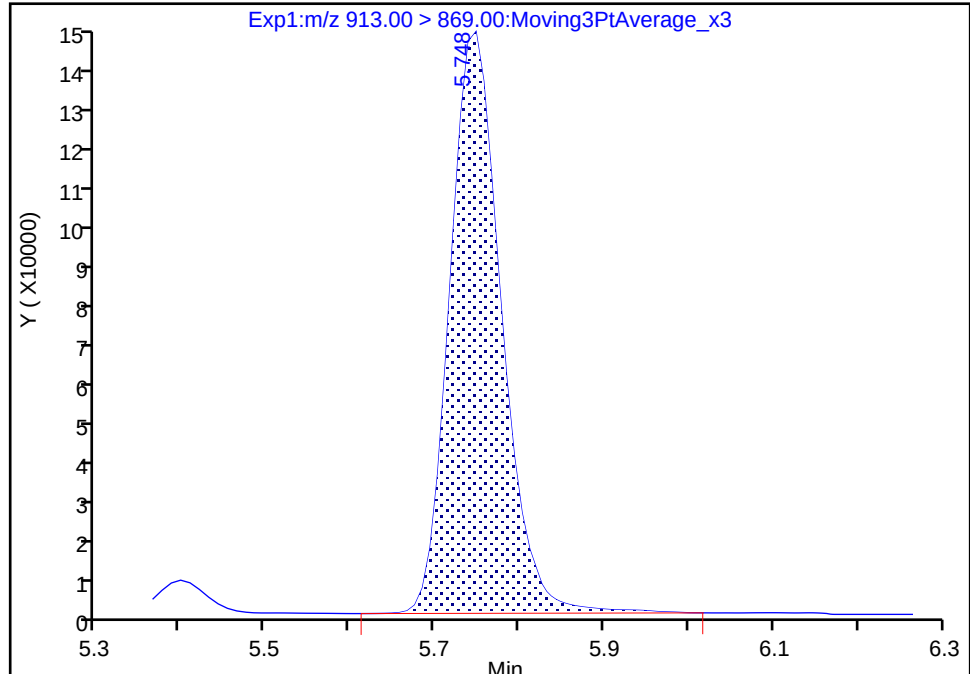
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

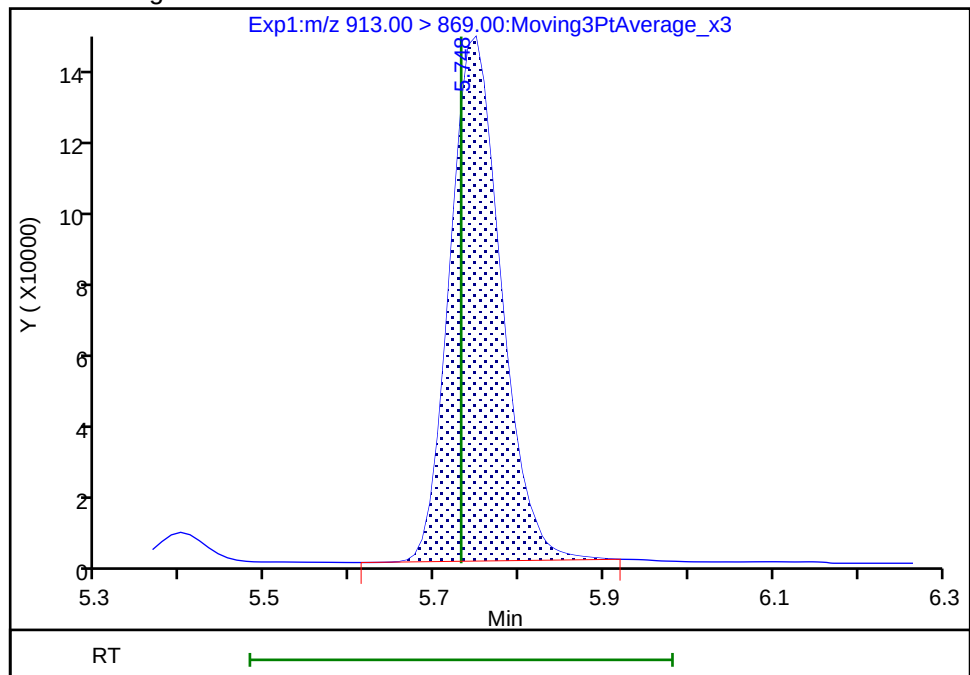
RT: 5.75
Area: 633306
Amount: 1.015717
Amount Units: ng/ml

Processing Integration Results



RT: 5.75
Area: 623968
Amount: 1.000740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 496 of 978

11/21/2022
4:10 PM

Eurofins Burlington

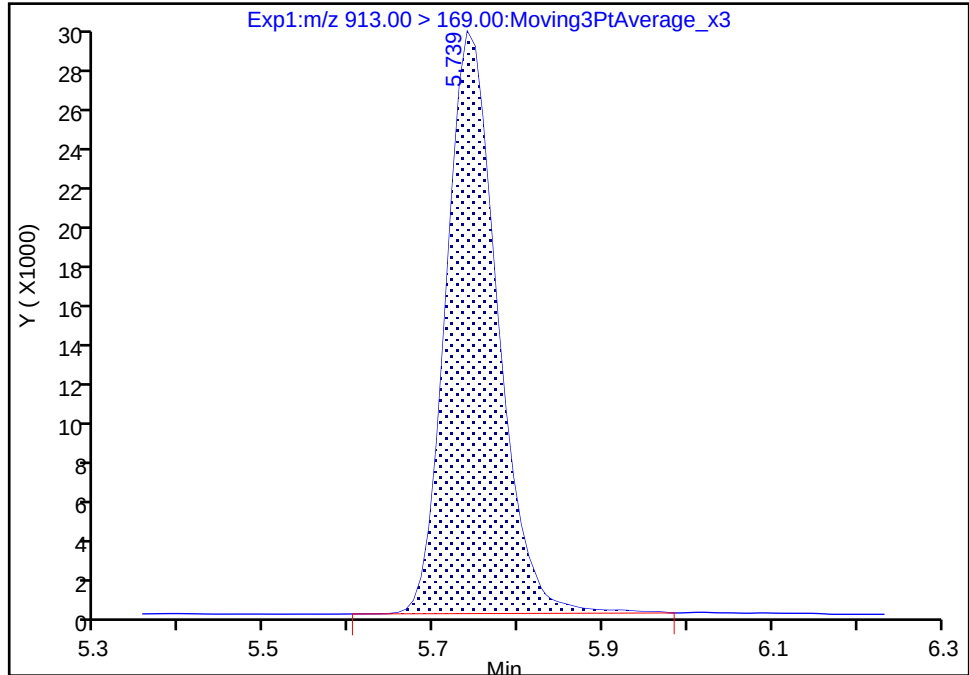
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL12.d
Injection Date: 14-Sep-2022 11:30:53 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

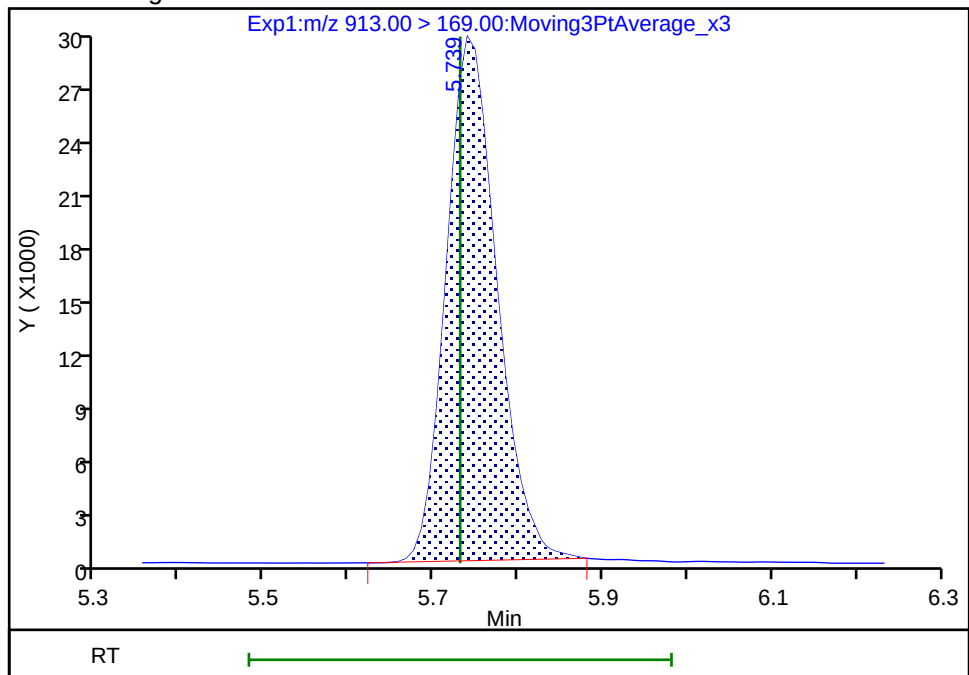
RT: 5.74
Area: 123632
Amount: 1.015717
Amount Units: ng/ml

Processing Integration Results



RT: 5.74
Area: 121243
Amount: 1.000740
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:22:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 497 of 97811/21/2022
4:10 PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: CCVLIS 200-185818/5 Calibration Date: 11/16/2022 09:34

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA221116A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.012	1.011		0.125	0.125	-0.1	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.070	1.055		0.0493	0.0500	-1.4	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.153	1.100		0.0422	0.0442	-4.6	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.713	2.891		0.0498	0.0467	6.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.086	1.064		0.0490	0.0500	-2.0	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.372	1.364		0.0466	0.0469	-0.6	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.092	1.094		0.100	0.100	0.1	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.163	1.158		0.0453	0.0455	-0.4	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.114	1.161		0.0521	0.0500	4.2	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.558	5.393		0.0457	0.0471	-3.0	50.0
6:2 FTS	AveID	1.822	2.040		0.133	0.119	12.0	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.409	1.359		0.0459	0.0476	-3.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.132	1.069		0.0472	0.0500	-5.6	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.395		0.0533	0.0464	14.8	50.0
Perfluorononanoic acid (PFNA)	AveID	1.050	0.8987		0.0428	0.0500	-14.4	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.438	2.722		0.0520	0.0466	11.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8853	0.8921		0.0484	0.0480	0.8	50.0
8:2 FTS	AveID	1.239	1.694		0.0655	0.0479	36.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.075	1.063		0.0494	0.0500	-1.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.010	0.9256		0.0458	0.0500	-8.4	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9248	0.8305		0.112	0.125	-10.2	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6900	0.8192		0.0572	0.0482	18.7	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.043	0.9926		0.0476	0.0500	-4.8	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9137	0.8117		0.111	0.125	-11.2	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	3.172	4.107		0.0610	0.0471	29.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.069	1.010		0.0472	0.0500	-5.5	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.6729	0.9792		0.0701	0.0482	45.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2805	0.3009		0.0519	0.0484	7.3	50.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Lab Sample ID: CCVLIS 200-185818/5 Calibration Date: 11/16/2022 09:34
 Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14
 Lab File ID: PA221116A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTrIA)	AveID	0.9793	1.114		0.0569	0.0500	13.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1555	0.1434		0.0461	0.0500	-7.8	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.091		0.0343	0.0500	-31.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7228	0.7363		0.0509	0.0500	1.9	50.0
13C4 PFBA	Ave	1.220	1.102		1.13	1.25	-9.7	
13C5 PFPeA	Ave	0.9597	0.8415		1.10	1.25	-12.3	
13C3 PFBS	Ave	0.9722	0.9221		1.10	1.16	-5.2	
M2-4:2 FTS	Ave	0.0881	0.0856		1.13	1.17	-2.9	
13C2 PFHxA	Ave	0.9758	0.9247		1.19	1.25	-5.2	
13C3 HFPO-DA	Ave	0.1832	0.1523		1.04	1.25	-16.8	
13C4 PFHpA	Ave	0.9588	0.9029		1.18	1.25	-5.8	
18O2 PFHxS	Ave	0.6942	0.6757		1.15	1.18	-2.7	
M2-6:2 FTS	Ave	0.1186	0.1164		1.17	1.19	-1.8	
13C4 PFOA	Ave	1.025	1.032		1.26	1.25	0.7	
13C4 PFOS	Ave	0.4574	0.4658		1.22	1.20	1.8	
13C5 PFNA	Ave	1.009	1.041		1.29	1.25	3.2	
13C2 PFDA	Ave	0.9801	1.057		1.35	1.25	7.9	
M2-8:2 FTS	Ave	0.1402	0.1398		1.19	1.20	-0.3	
13C8 FOSA	Ave	0.7983	0.8231		1.29	1.25	3.1	
d3-NMeFOSAA	Ave	0.1380	0.2003		1.81	1.25	45.1	
13C2 PFUnA	Ave	0.8025	0.9312		1.45	1.25	16.0	
d5-NEtFOSAA	Ave	0.1370	0.1992		1.82	1.25	45.5	
13C2 PFDoA	Ave	0.7827	0.9227		1.47	1.25	17.9	
13C2 PFTeDA	Ave	0.6687	0.8201		1.53	1.25	22.6	
13C2 PFHxDA	Ave	0.7383	1.110		1.88	1.25	50.4	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
 Lims ID: CCVLIS
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 16-Nov-2022 09:34:49 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVLIS
 Misc. Info.: 200-0053344-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 09:06:05 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1611

First Level Reviewer: Z1IP

Date: 16-Nov-2022 10:02:38

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	2.068	2.068	0.0	0.601	2541677	1.13		90.3	9043	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.004	256976	0.1248		99.9	22.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.690	1941740	1.10		87.7	3145	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	81946	0.0493		98.6	2.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.386	2.386	0.0	0.694	1978620	1.10		94.8	199451	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.006	82762	0.0422	Target=2.19	95.4	108	
298.90 > 99.00	2.400	2.400	0.0	1.006	38783		2.13(1.09-3.28)		26.3	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.677	2.689	-0.012	1.000	21335	0.0498		107	349	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.677	2.689	-0.012	0.778	184494	1.13		97.1	168	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.713	2.725	-0.012	0.789	2133704	1.18		94.8	4655	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	90811	0.0490	Target=13.67	98.0	21.0	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	5679		15.99(6.83-20.50)		10.7	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.725	2.725	0.0	0.886	79768	0.0466	Target=3.00	99.4	150	
349.00 > 99.00	2.725	2.725	0.0	0.886	26046		3.06(1.50-4.51)		69.5	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.823	2.823	0.0	0.821	351495	1.04		83.2	1395	

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	2.823	2.823	0.0	1.000	30760	0.1001		100	181	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.076	3.088	-0.012	0.895	1474831	1.15		97.3	1739	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.076	3.088	-0.012	1.000	65736	0.0453	Target=3.60	99.6	98.4	M
399.00 > 99.00	3.076	3.088	-0.012	1.000	18934		3.47(1.80-5.40)		26.4	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.076	3.088	-0.012	0.895	2083278	1.18		94.2	4211	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.088	3.088	0.0	1.004	96747	0.0521	Target=3.76	104	19.8	M
363.00 > 169.00	3.088	3.088	0.0	1.004	22443		4.31(1.88-5.65)		53.9	
77 DONA										
377.00 > 251.00	3.121	3.121	0.0	0.831	218385	0.0457	Target=3.10	97.0	267	
377.00 > 85.00	3.121	3.121	0.0	0.831	65568		3.33(1.55-4.65)		113	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.430	3.430	0.0	0.914	55627	0.0459	Target=5.32	96.5	139	M
449.00 > 99.00	3.421	3.430	-0.009	0.911	10096		5.51(2.66-7.97)		48.2	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.430	0.0	0.997	255164	1.17		98.2	719	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.421	3.430	-0.009	0.997	51944	0.1327		112	173	M
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.439	0.0	1.000	2381670	1.26		101	3863	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.439	0.0		2307338	1.25			6106	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.439	3.439	0.0	1.000	101818	0.0472	Target=2.73	94.4	7.3	
413.00 > 169.00	3.439	3.439	0.0	1.000	36702		2.77(1.37-4.10)		58.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.764	-0.010	1.092	1027419	1.22		102	2861	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.754	3.764	-0.010	1.000	55654	0.0533	Target=5.09	115	9.6	M
499.00 > 99.00	3.754	3.764	-0.010	1.000	8373		6.65(2.55-7.64)		7.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.773	3.783	-0.010	1.097	2401052	1.29		103	4623	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.773	3.783	-0.010	1.000	86310	0.0428	Target=7.76	85.6	19.4	M
463.00 > 169.00	3.783	3.783	0.0	1.003	11840		7.29(3.88-11.63)		101	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.915	3.928	-0.013	1.043	109045	0.0520		112	608	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.050	4.061	-0.011	1.079	36814	0.0484	Target=2.67	101	433	
549.00 > 99.00	4.050	4.061	-0.011	1.079	13856		2.66(1.34-4.01)		91.3	
D 23 13C2 PFDA										M
515.00 > 470.00	4.071	4.093	-0.022	1.184	2439334	1.35		108	3452	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	4.081	4.093	-0.012	1.003	103719	0.0494	Target=9.83	98.8	42.8	M
513.00 > 169.00	4.081	4.093	-0.012	1.003	9562		10.85(4.91-14.74)		26.7	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.093	-0.012	1.187	309007	1.19		99.7	774	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.081	4.093	-0.012	1.000	20934	0.0655		137	336	M
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.138	0.0	1.203	1899163	1.29		103	2414	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.138	0.0	1.000	70311	0.0458		91.6	170	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.229	462122	1.81		145	1096	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.238	-0.010	1.000	38377	0.1122		89.8	112	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.319	4.331	-0.012	1.151	33950	0.0572	Target=2.59	119	225	M
599.00 > 99.00	4.319	4.331	-0.012	1.151	11245		3.02(1.30-3.89)		116	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.353	4.365	-0.012	1.266	2148677	1.45		116	2710	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.365	-0.012	1.000	85312	0.0476	Target=9.68	95.2	42.8	M
563.00 > 169.00	4.353	4.365	-0.012	1.000	9376		9.10(4.84-14.53)		102	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.365	4.376	-0.011	1.269	459658	1.82		145	840	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.376	-0.011	1.000	37312	0.1111		88.8	167	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.465	-0.011	1.186	166293	0.0610		129	647	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.602	-0.011	1.335	2129060	1.47		118	4964	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.602	-0.011	1.000	85992	0.0472	Target=6.96	94.5	7.4	
613.00 > 169.00	4.591	4.602	-0.011	1.000	12657		6.79(3.48-10.43)		130	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.622	-0.010	1.130	12179	0.0701		146	167	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.767	4.785	-0.018	1.270	12520	0.0519	Target=0.52	107	169	M
699.00 > 99.00	4.776	4.785	-0.009	1.272	24051		0.52(0.26-0.78)		544	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.825	-0.012	1.048	94854	0.0569	Target=4.85	114	8.7	M
663.00 > 169.00	4.803	4.825	-0.022	1.046	17248		5.50(2.42-7.27)		99.9	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.457	1892319	1.53		123	5031	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.032	-0.020	1.000	10857	0.0461	Target=0.99	92.2	117	M
713.00 > 219.00	5.002	5.032	-0.030	0.998	11366		0.96(0.49-1.48)		147	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	5.378	5.400	-0.022	1.564	2561539	1.88		150	4222	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.378	5.411	-0.033	1.000	111779	0.0343	Target=4.99	68.5	11.4	
813.00 > 169.00	5.378	5.411	-0.033	1.000	19445		5.75(2.49-7.48)		168	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.731	5.786	-0.055	1.066	75445	0.0509	Target=4.90	102	10.0	M
913.00 > 169.00	5.731	5.786	-0.055	1.066	11691		6.45(2.45-7.35)		155	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00023

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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

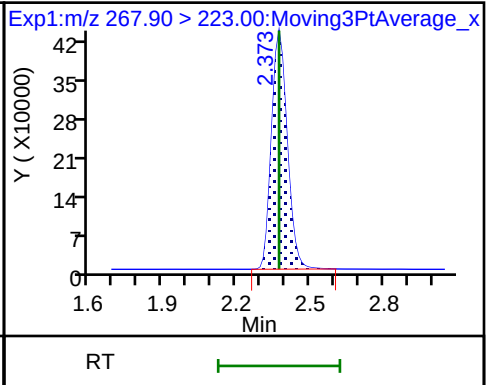
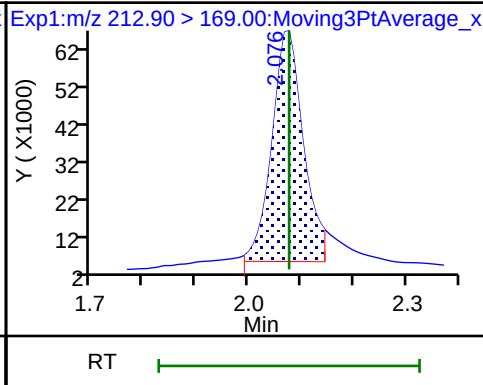
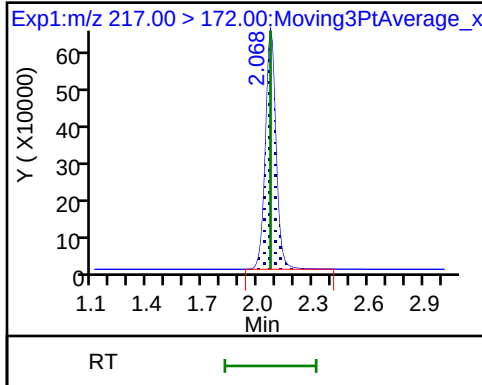
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

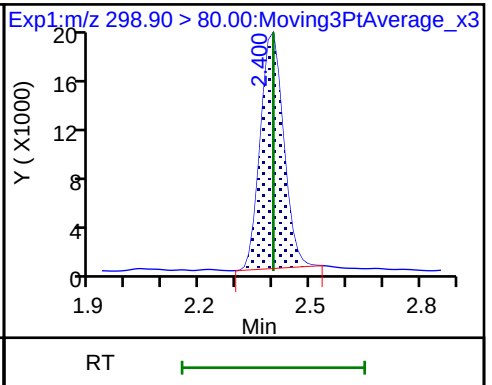
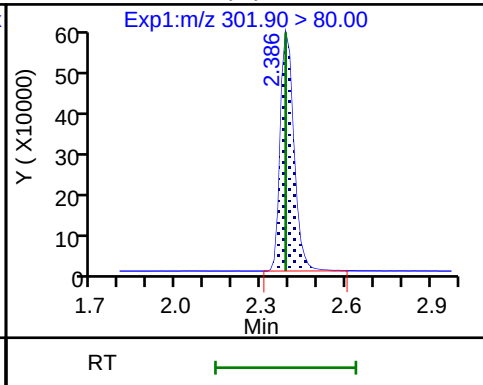
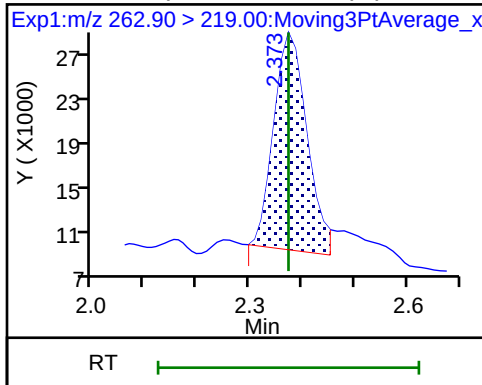
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

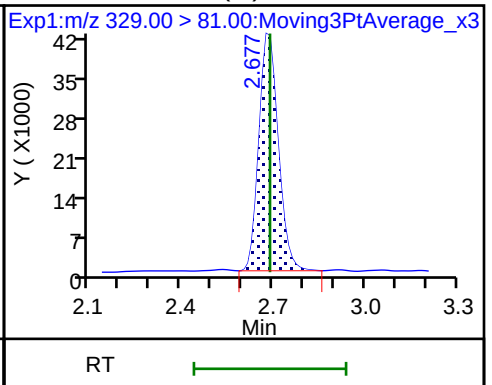
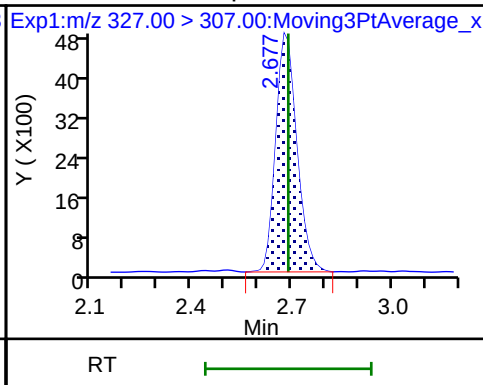
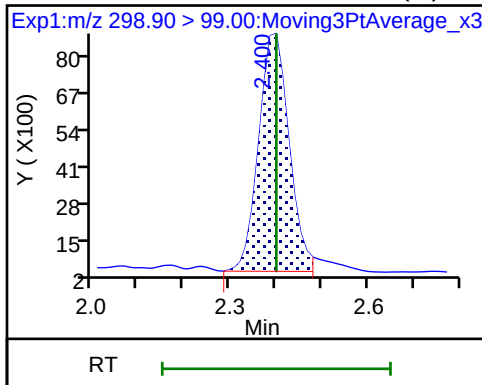
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

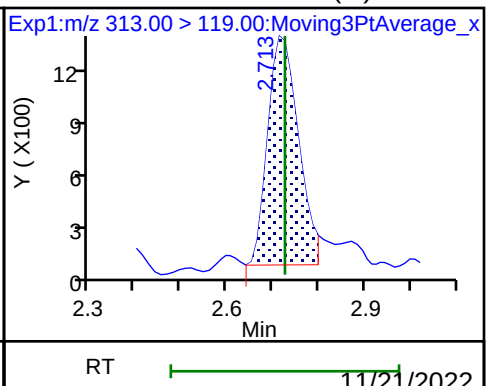
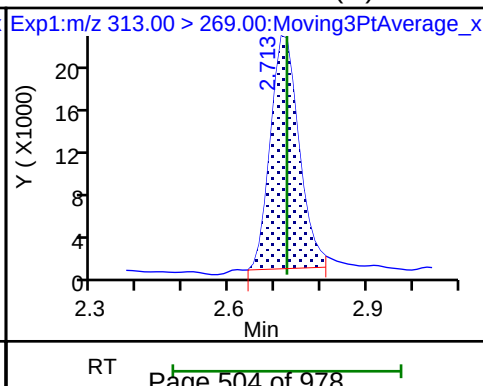
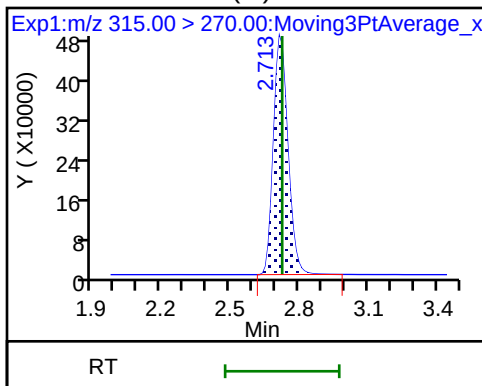
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

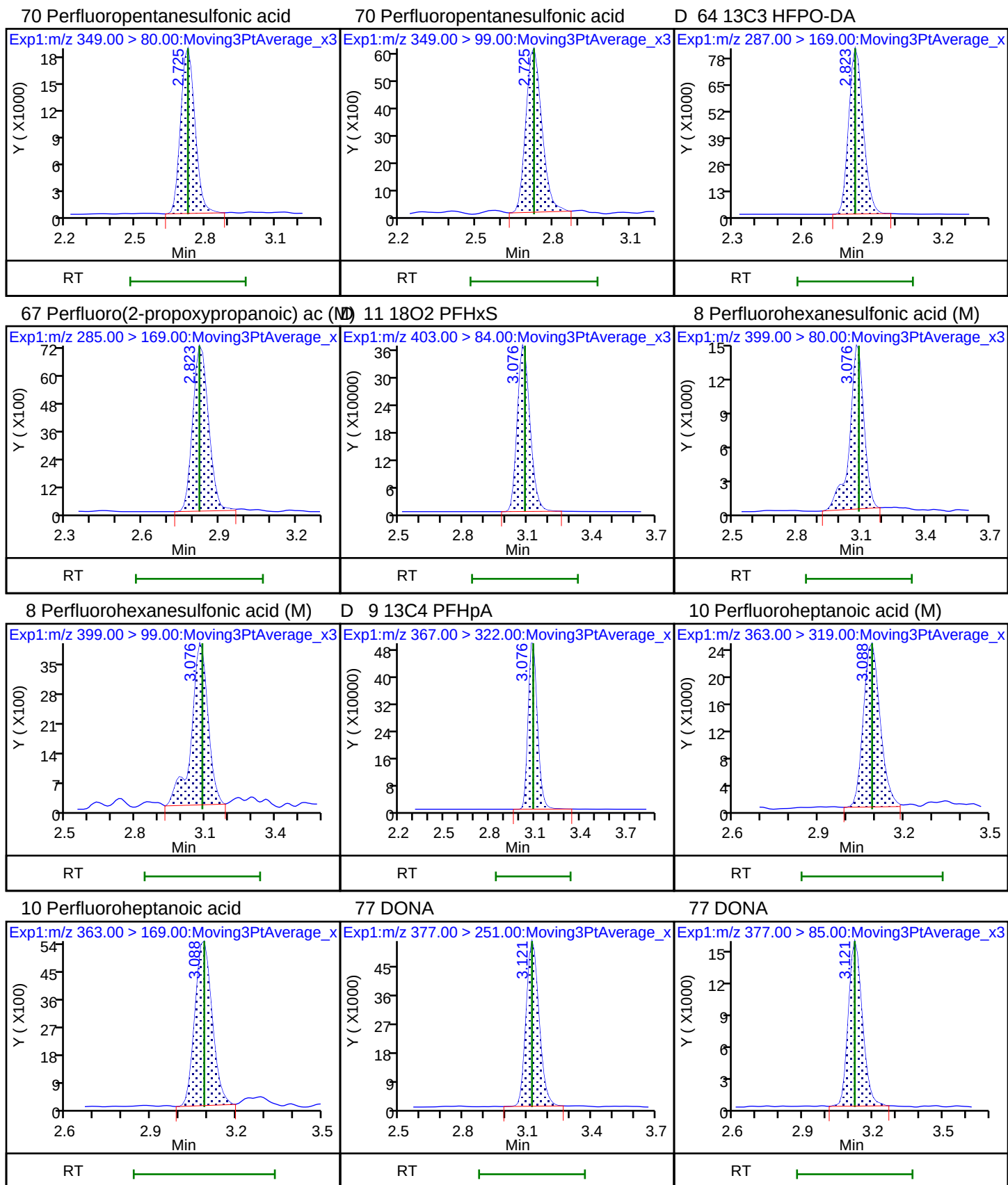


D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

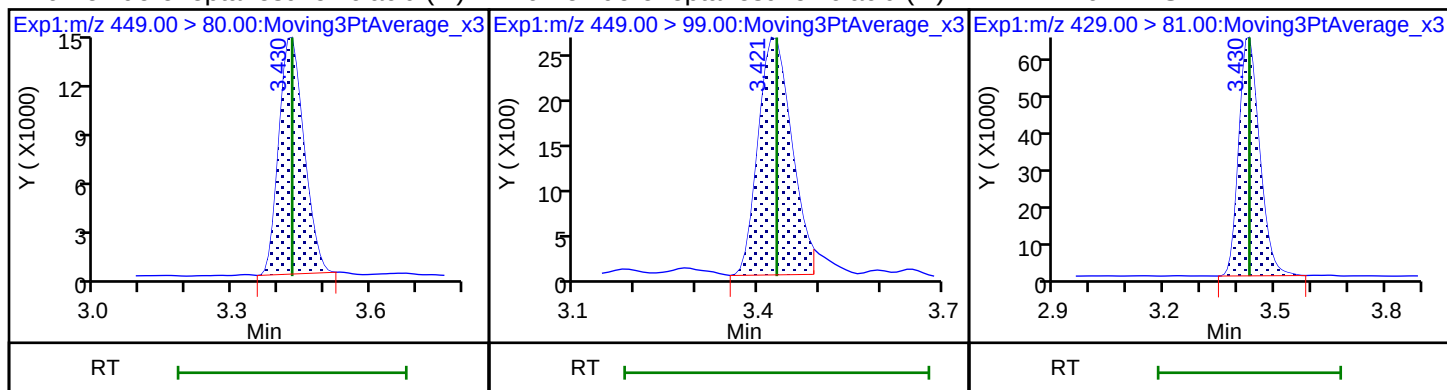




16 Perfluoroheptanesulfonic acid (M)

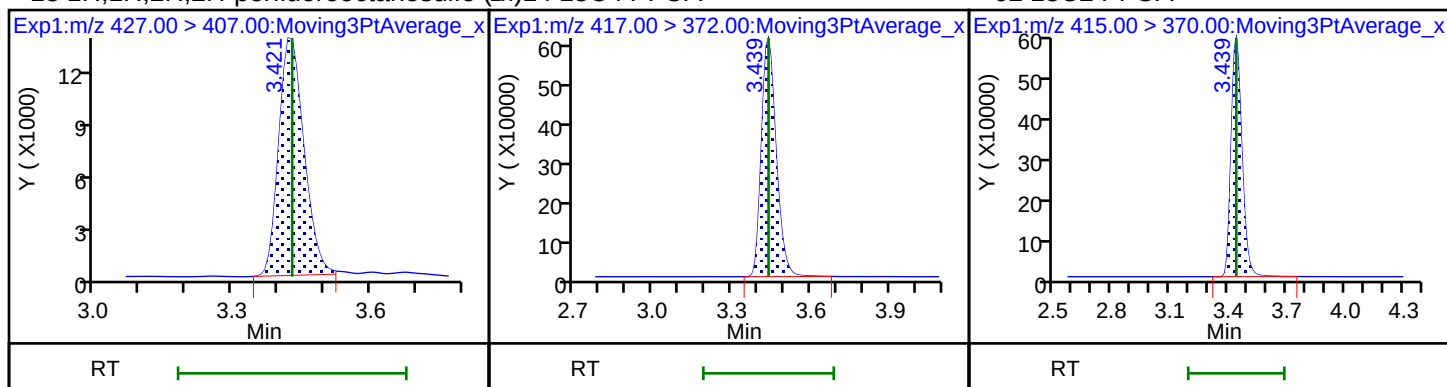
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS



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

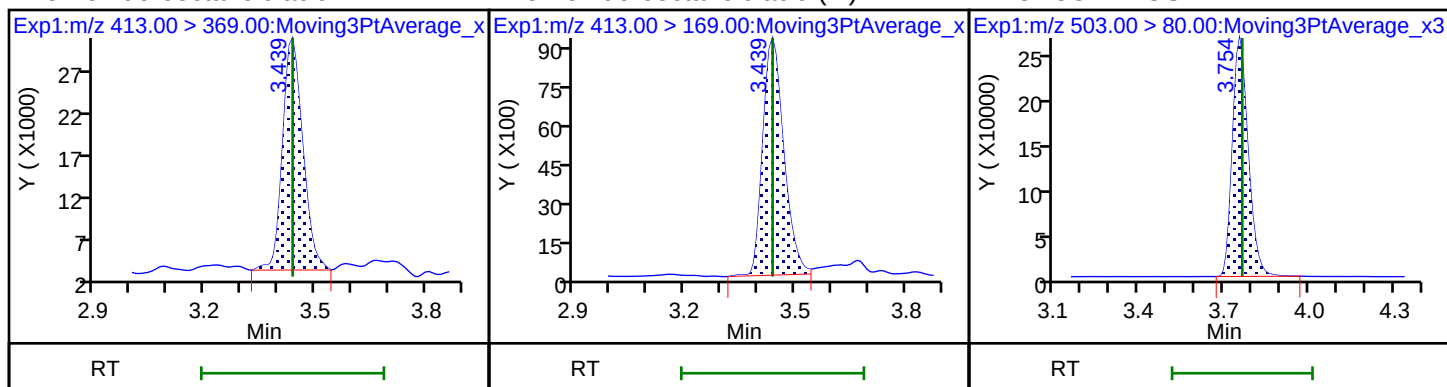
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

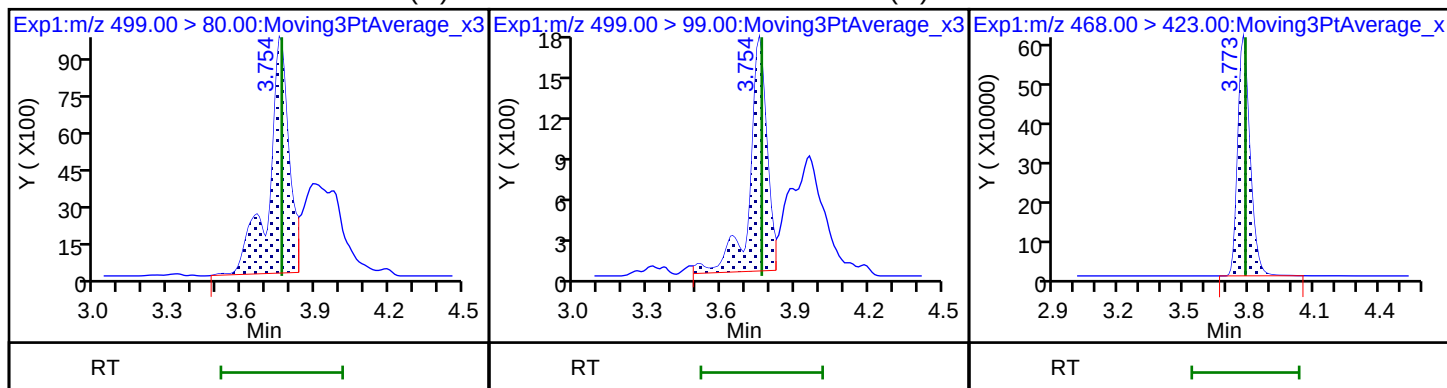
D 18 13C4 PFOS

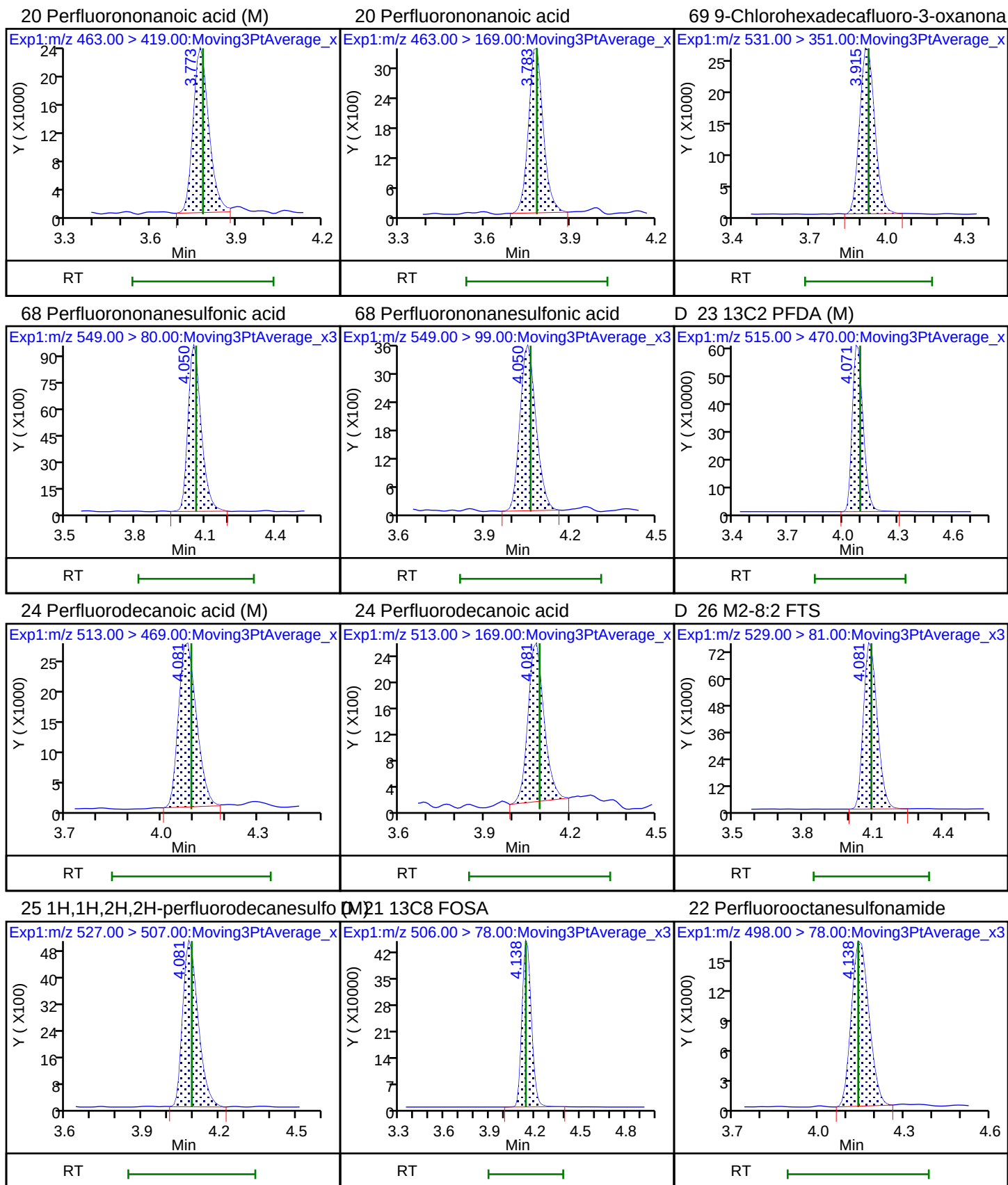


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

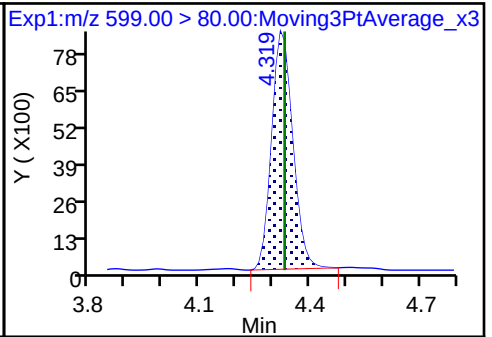
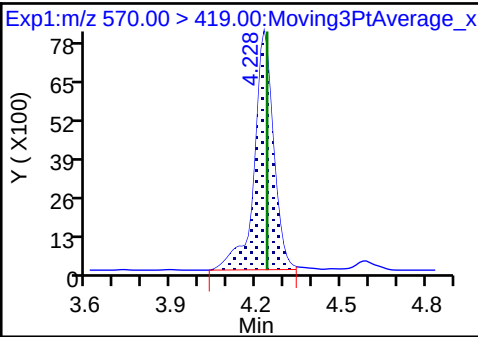
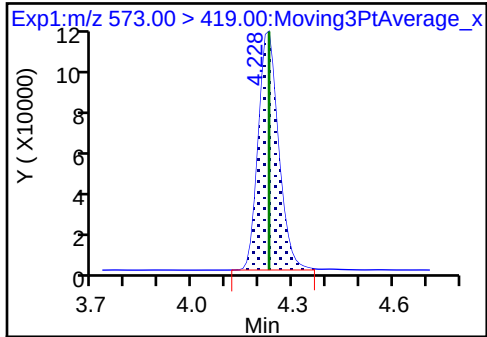




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

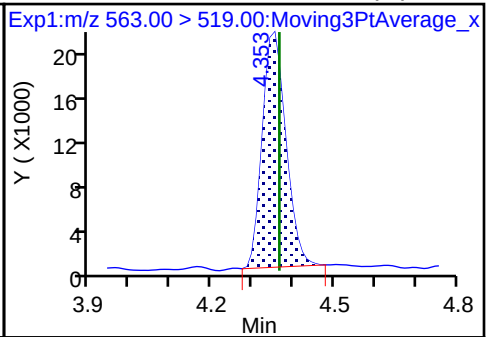
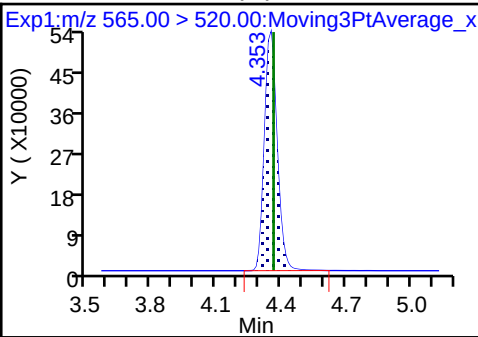
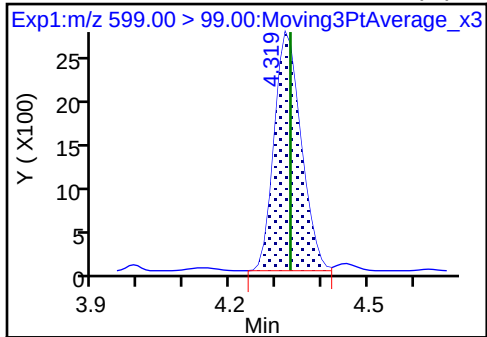
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA (M)

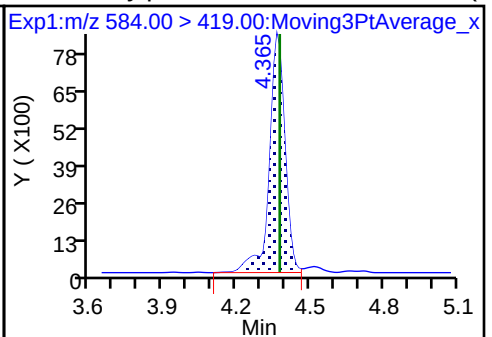
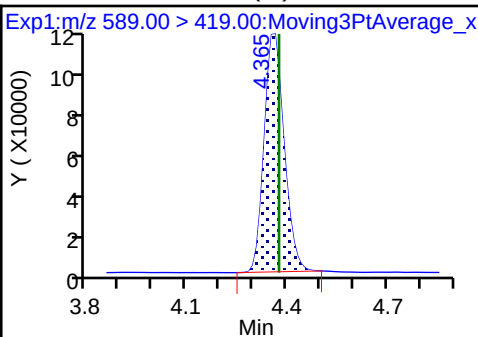
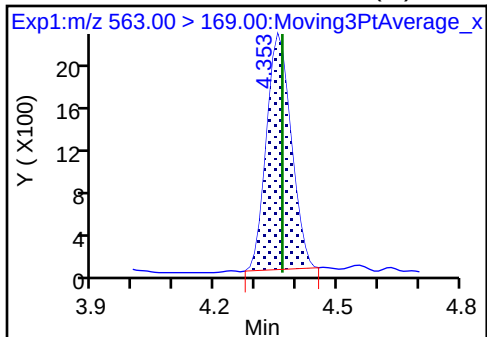
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA (M)

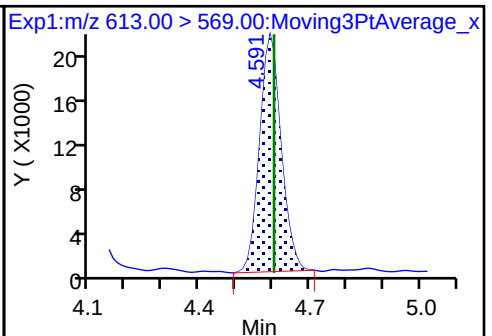
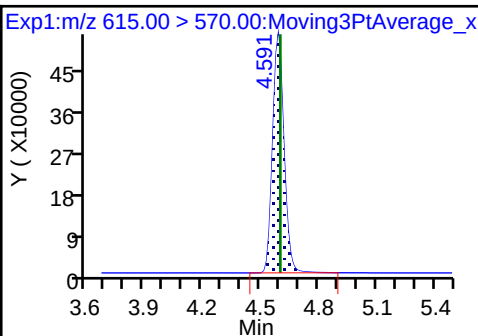
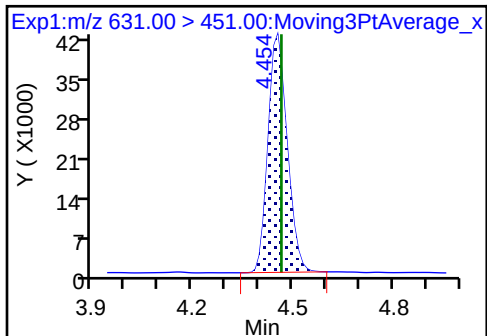
33 N-ethylperfluorooctanesulfonamid (M)

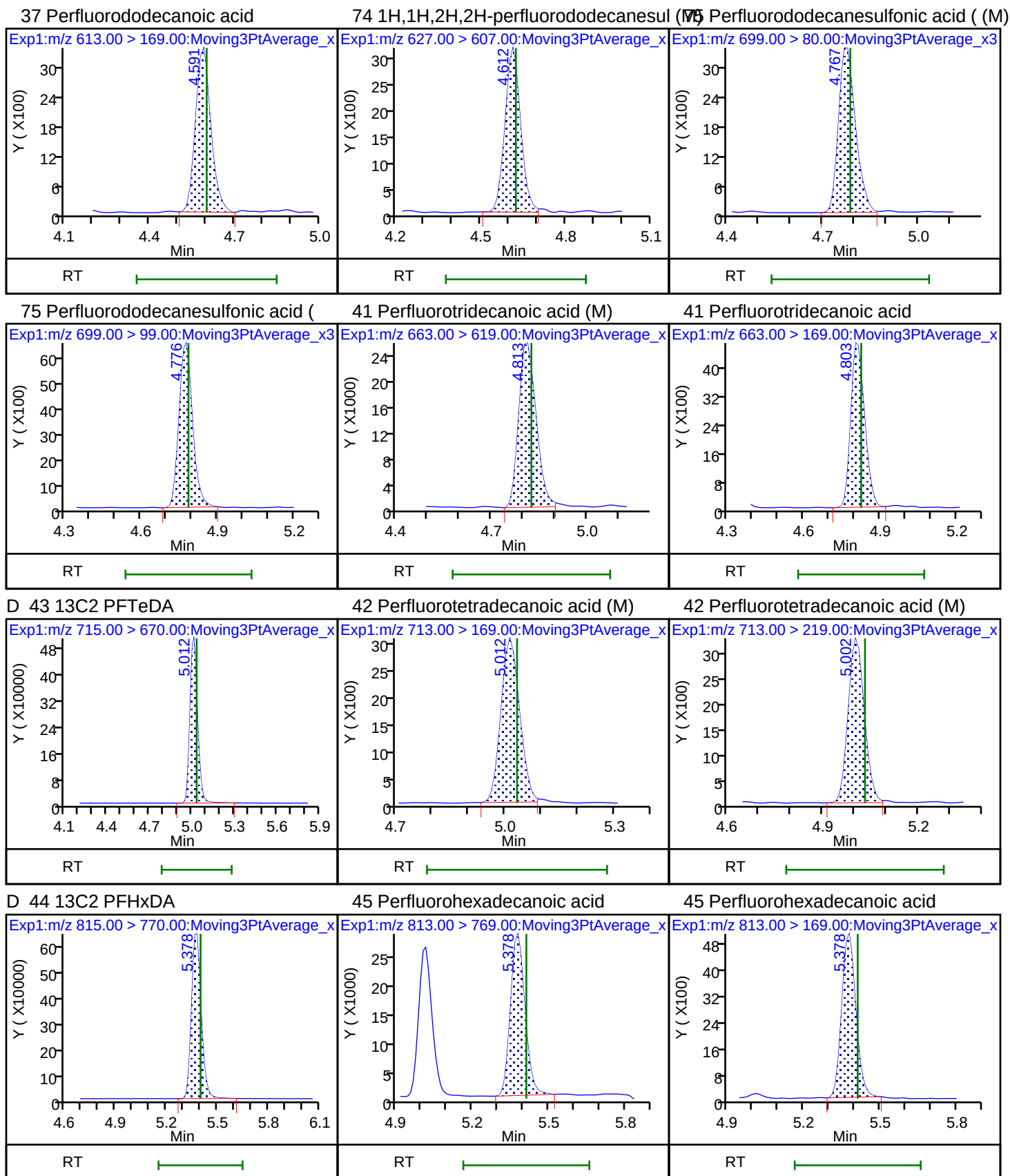


66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

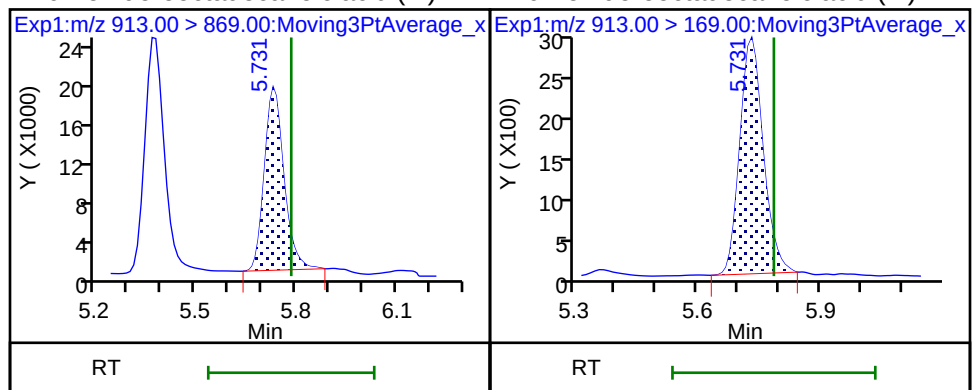
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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)

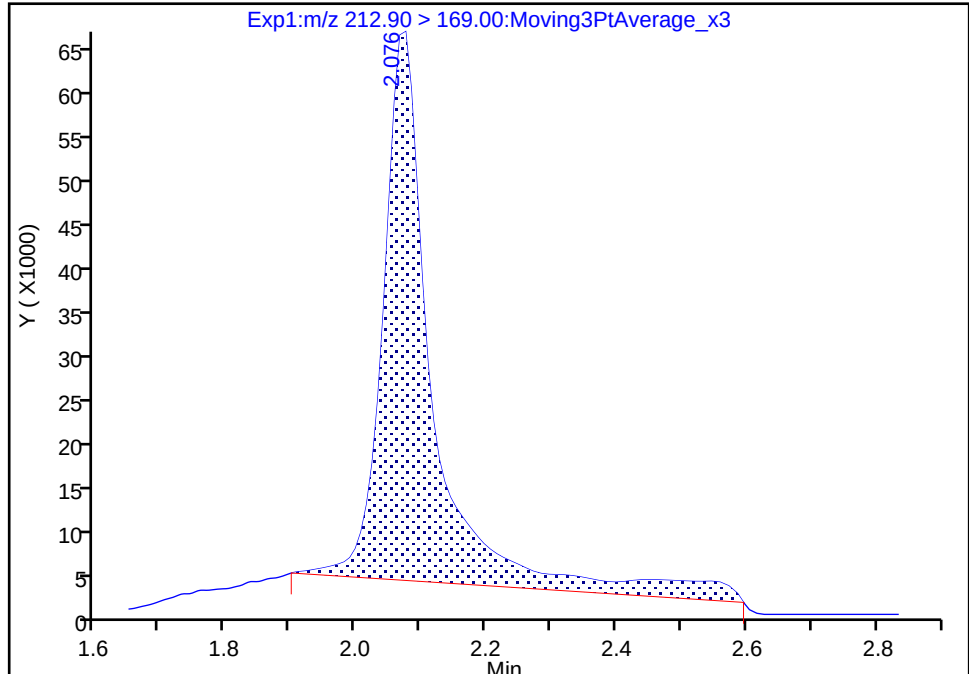
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

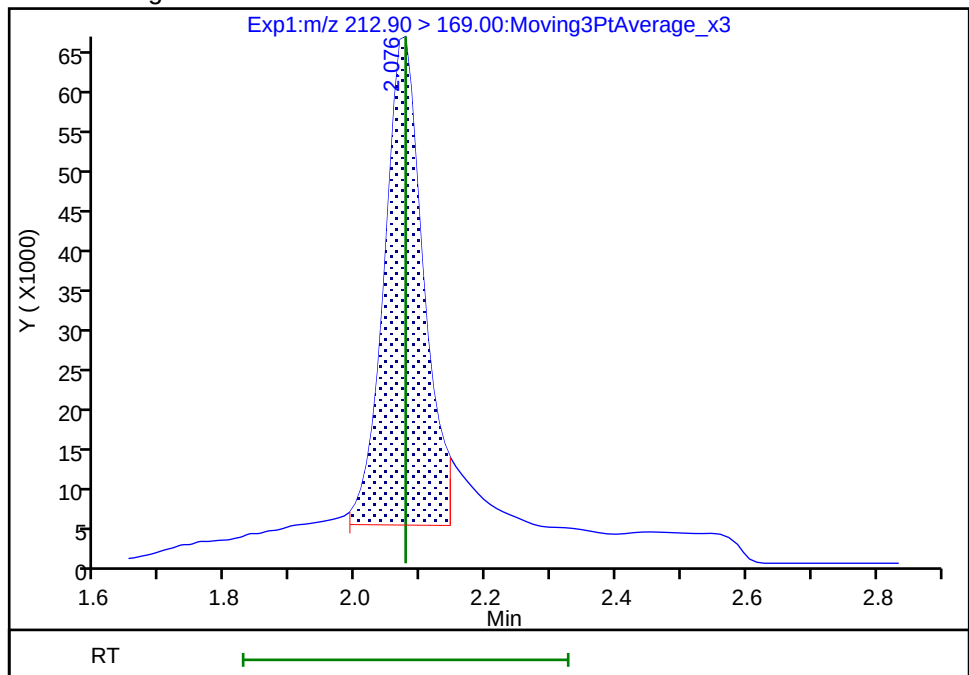
RT: 2.08
Area: 340247
Amount: 0.165276
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 256976
Amount: 0.124827
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:31:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

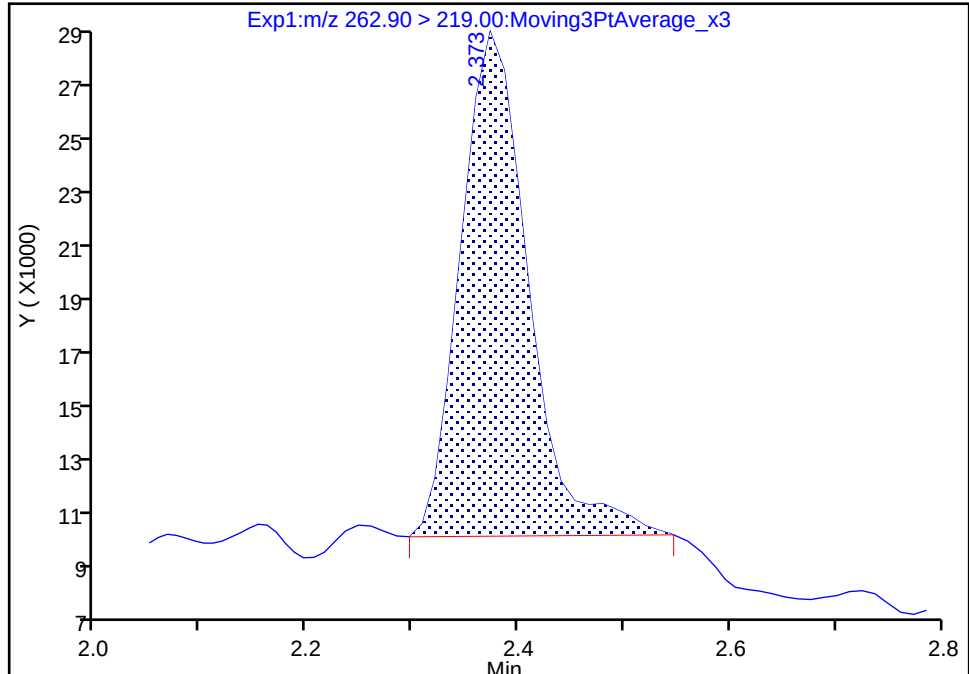
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

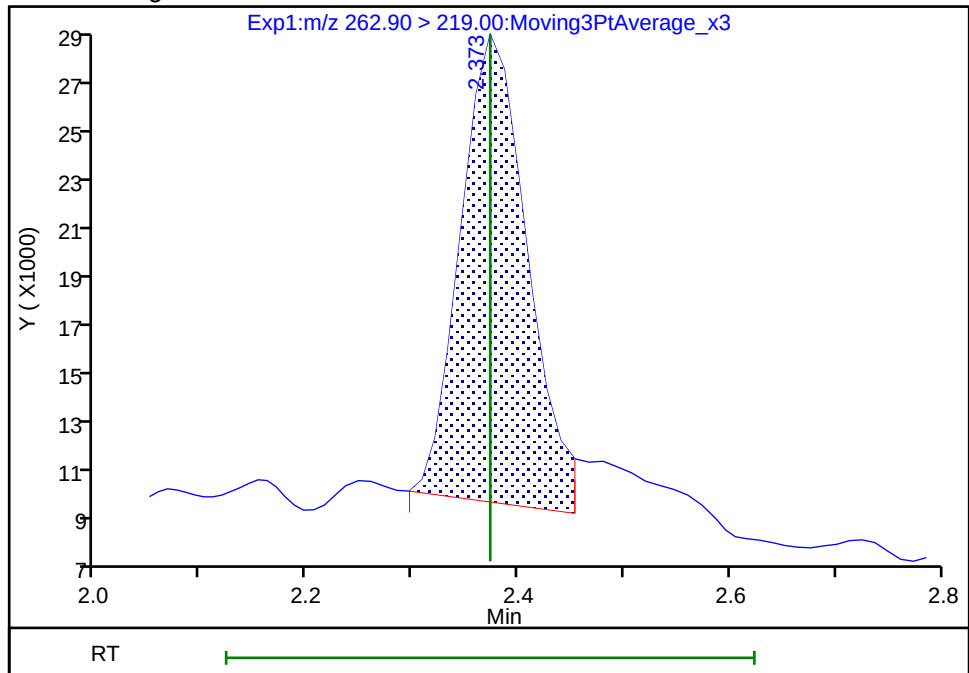
RT: 2.37
Area: 81535
Amount: 0.049061
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 81946
Amount: 0.049308
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:31:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 512 of 978

11/21/2022
4:10 PM

Eurofins Burlington

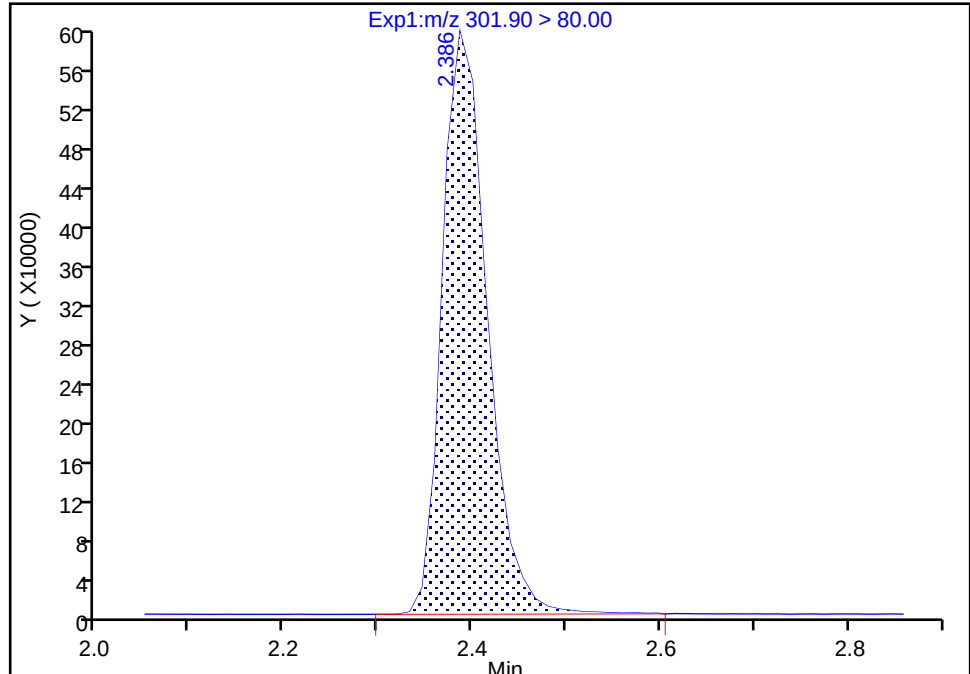
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

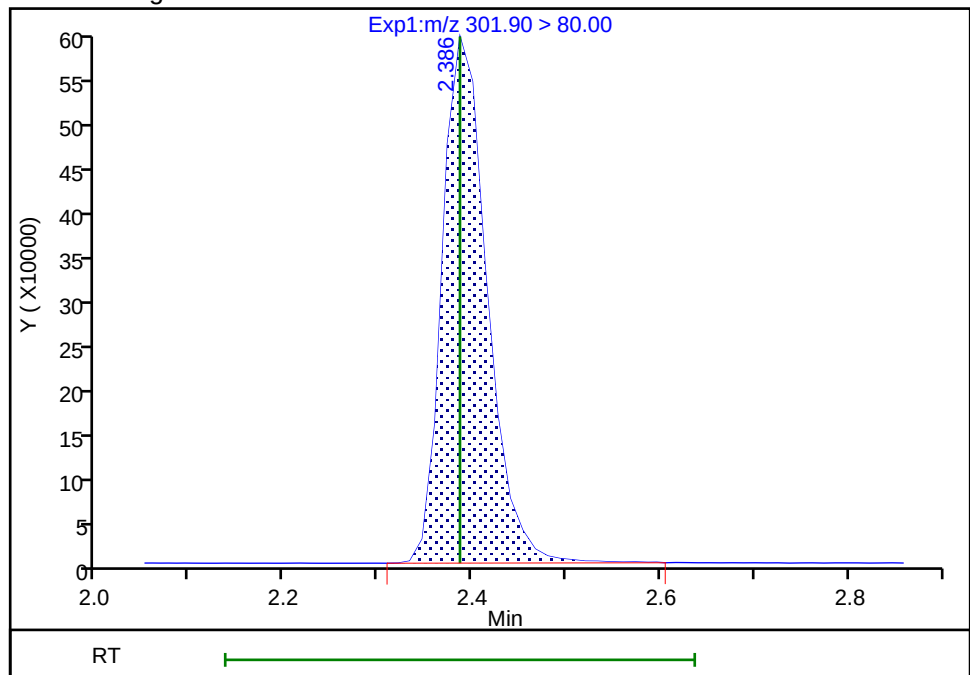
RT: 2.39
Area: 1978701
Amount: 1.102575
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1978620
Amount: 1.102530
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:39:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

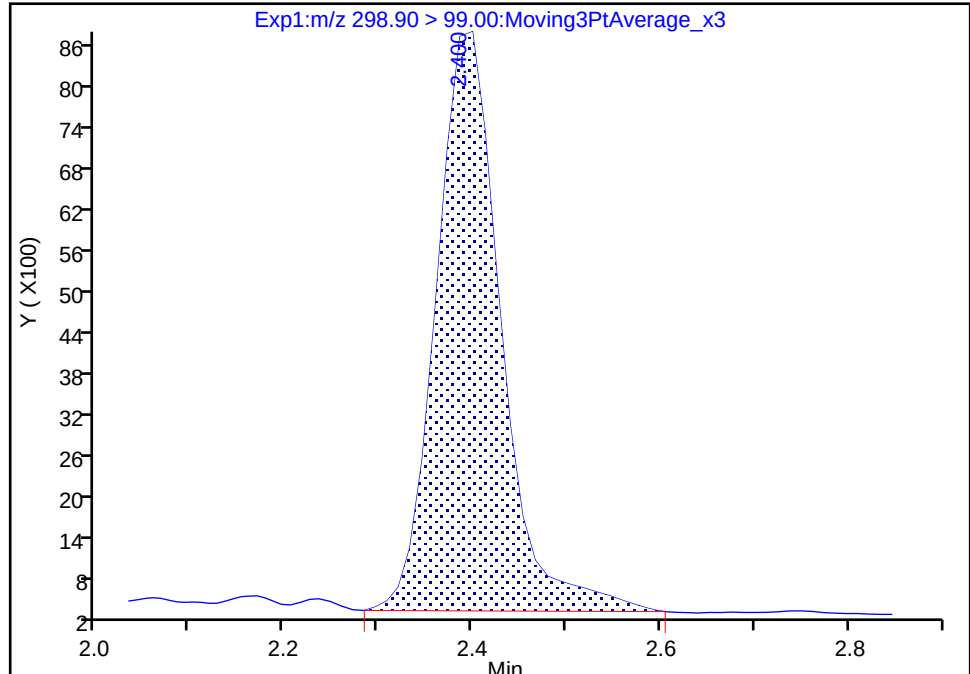
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

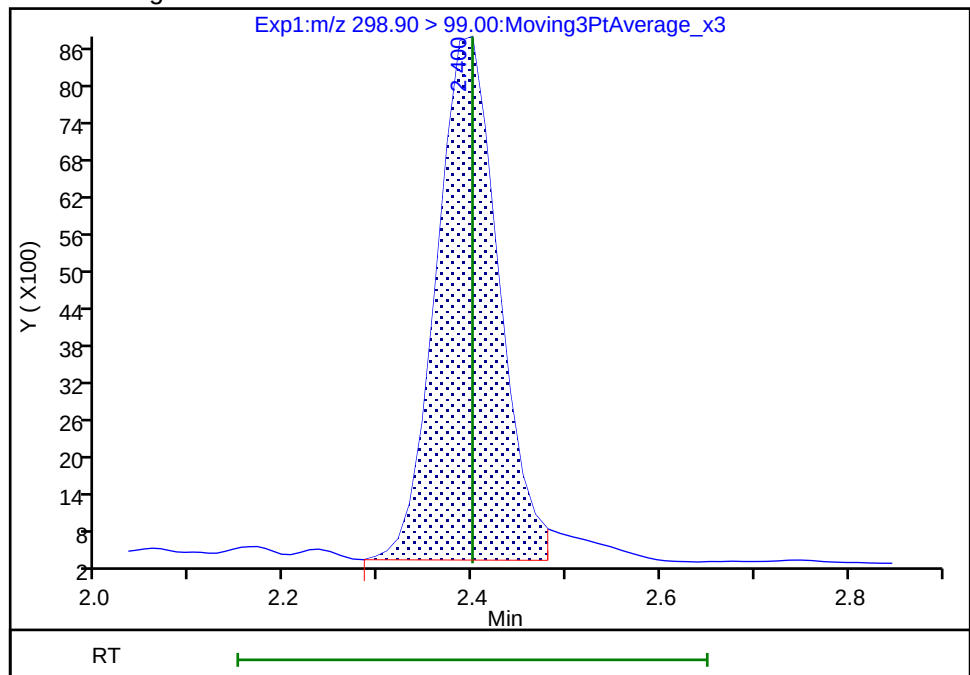
RT: 2.40
Area: 40560
Amount: 0.042179
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 38783
Amount: 0.042179
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 514 of 978

11/21/2022
4:10 PM

Eurofins Burlington

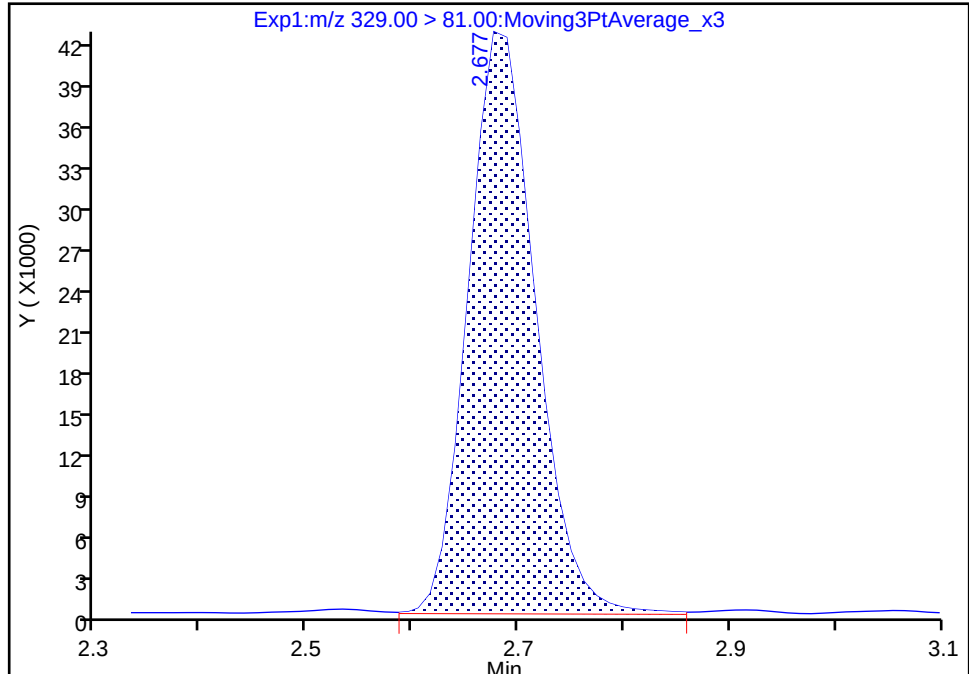
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

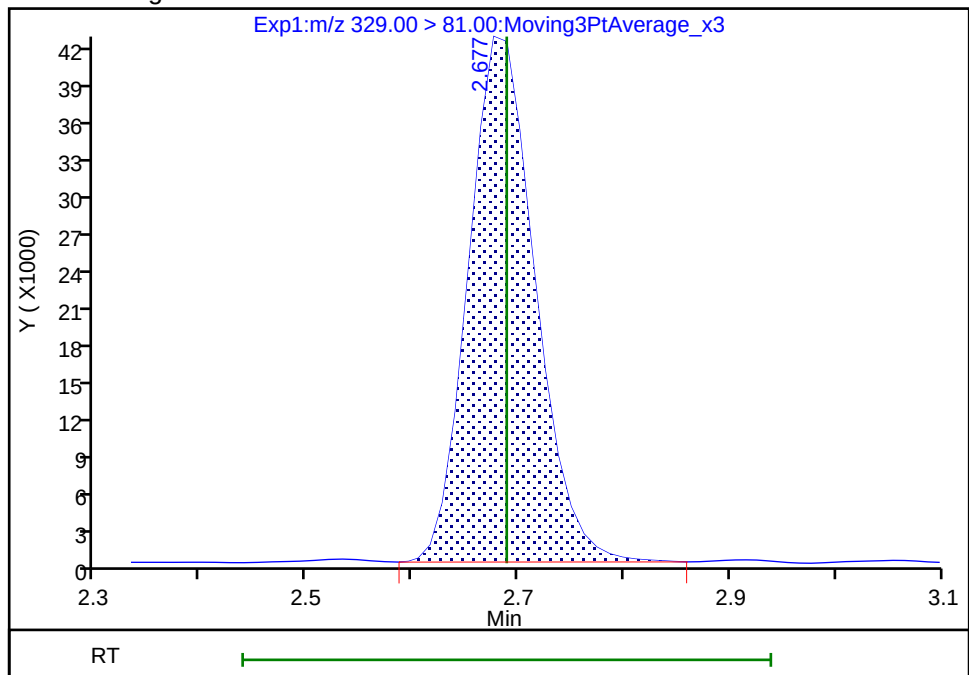
RT: 2.68
Area: 186442
Amount: 1.146141
Amount Units: ng/ml

Processing Integration Results



RT: 2.68
Area: 184494
Amount: 1.134165
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:40:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

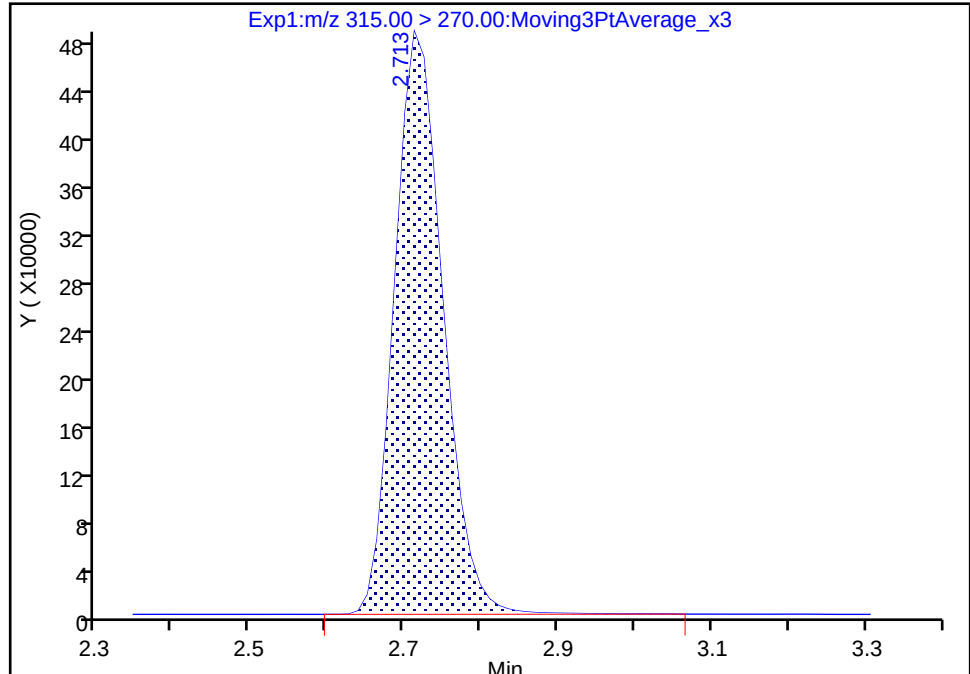
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

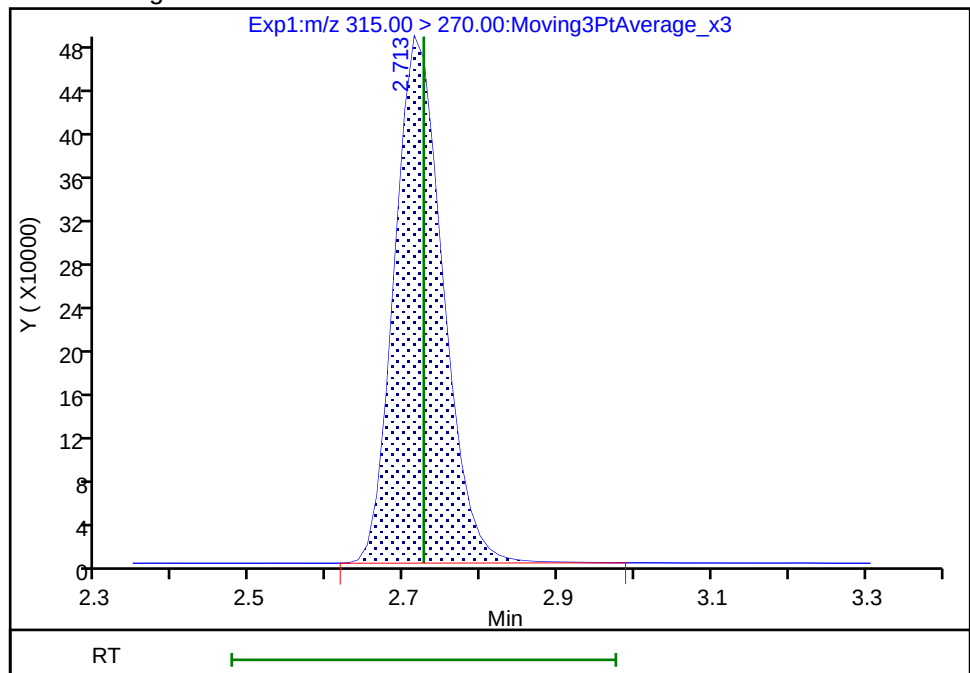
RT: 2.71
Area: 2137010
Amount: 1.186412
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 2133704
Amount: 1.184577
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:40:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

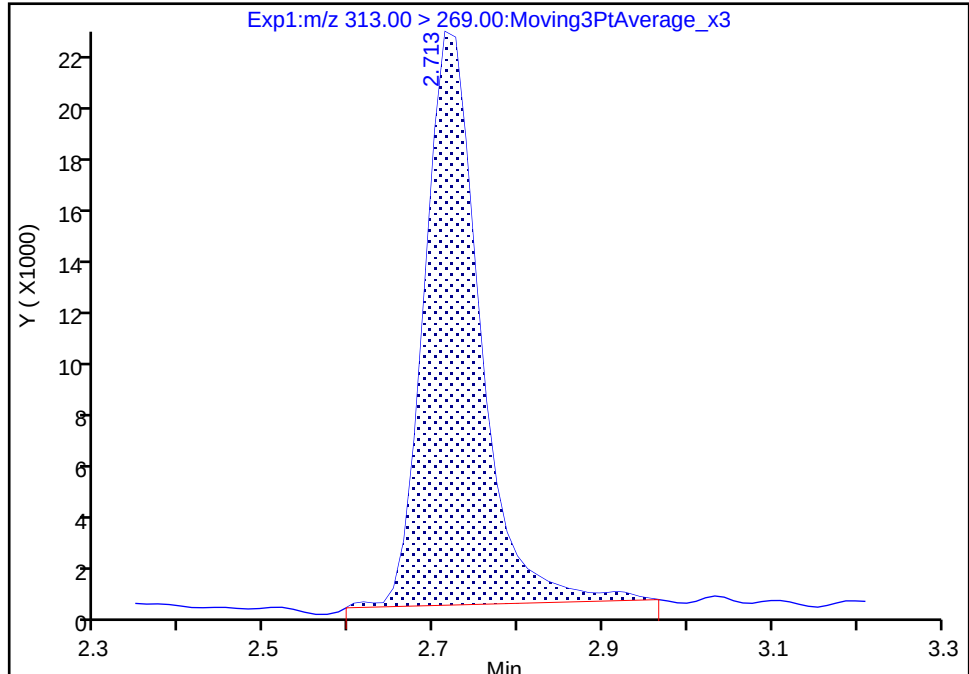
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

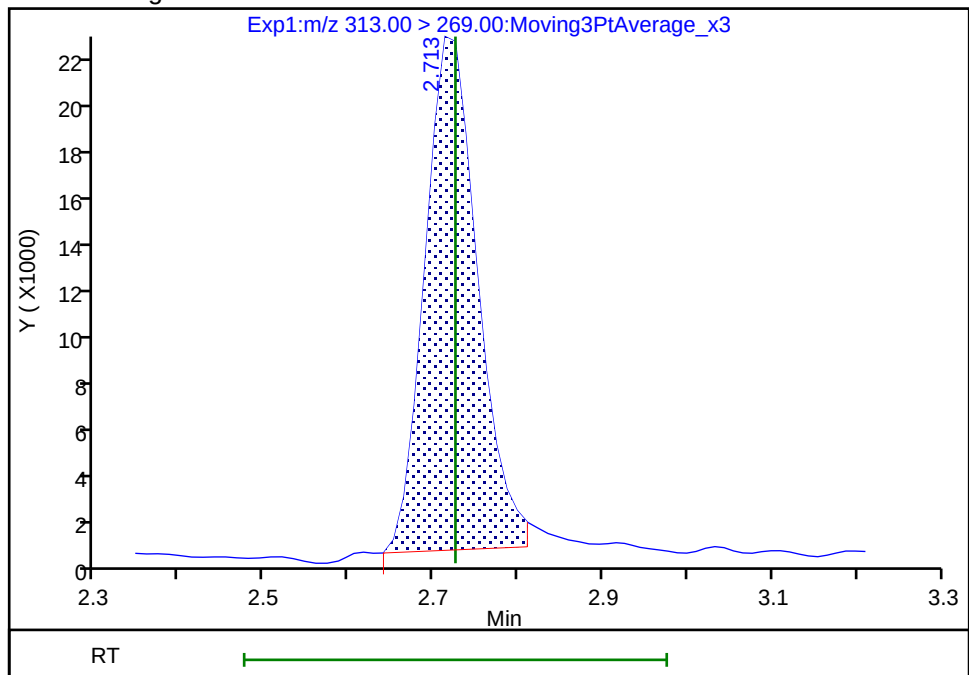
RT: 2.71
Area: 97317
Amount: 0.052513
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 90811
Amount: 0.049002
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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

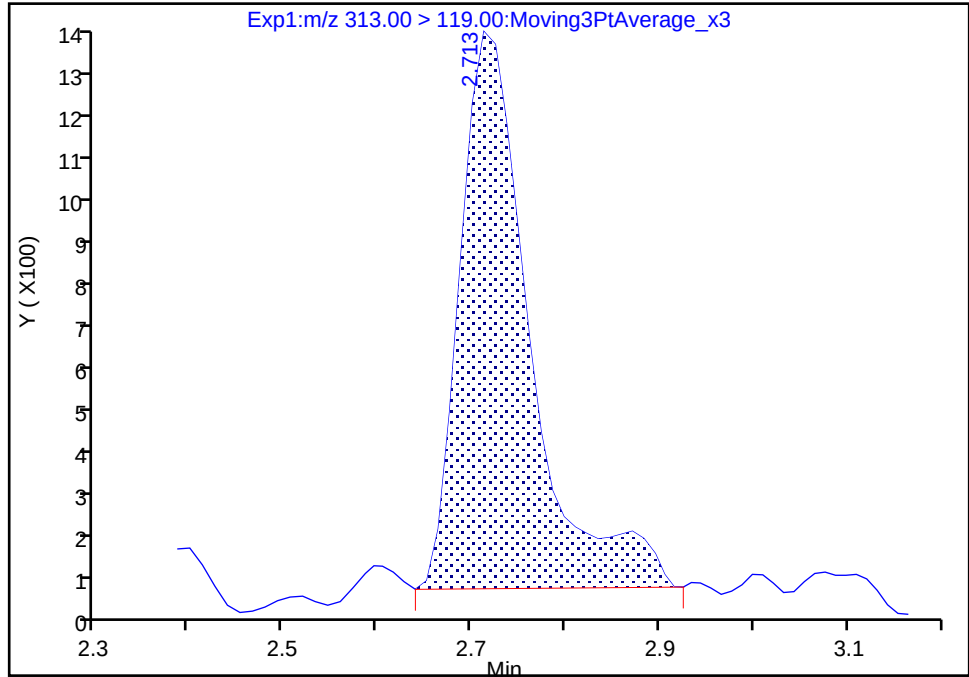
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

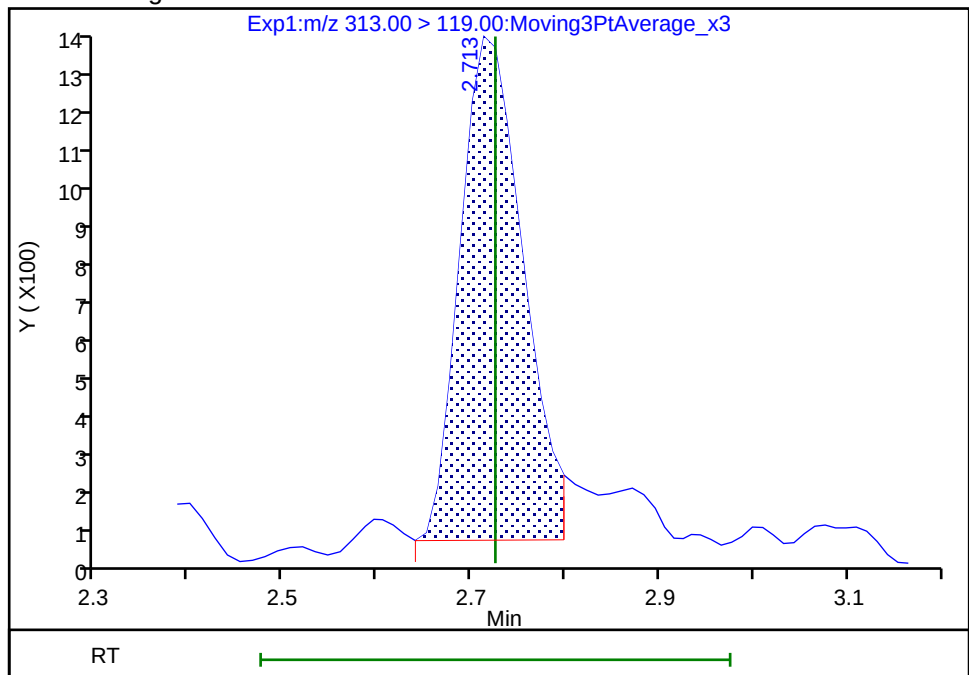
RT: 2.71
Area: 6399
Amount: 0.052513
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 5679
Amount: 0.049002
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

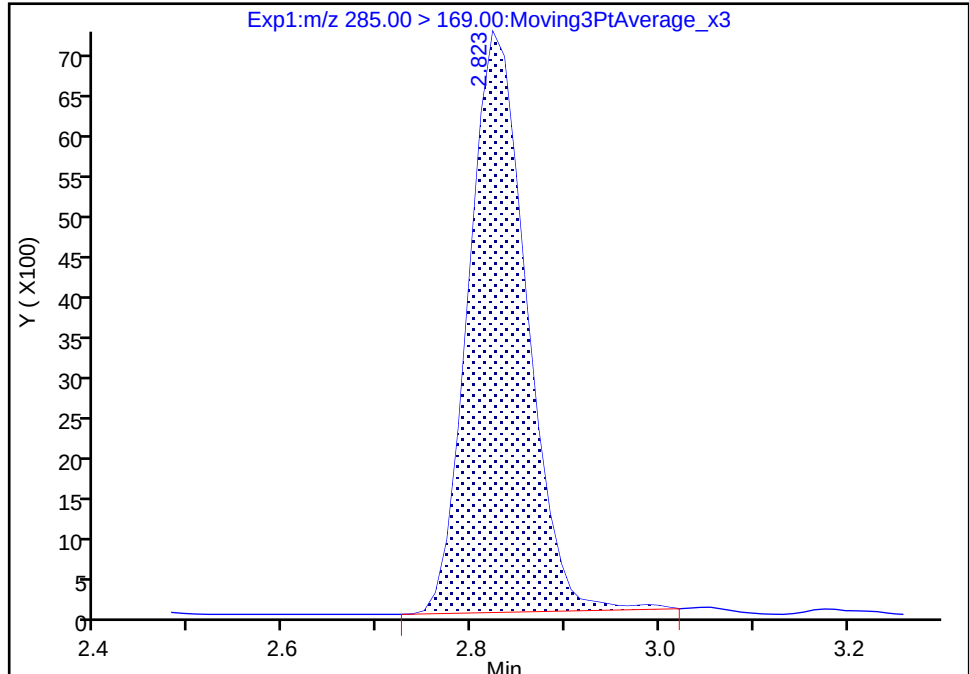
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

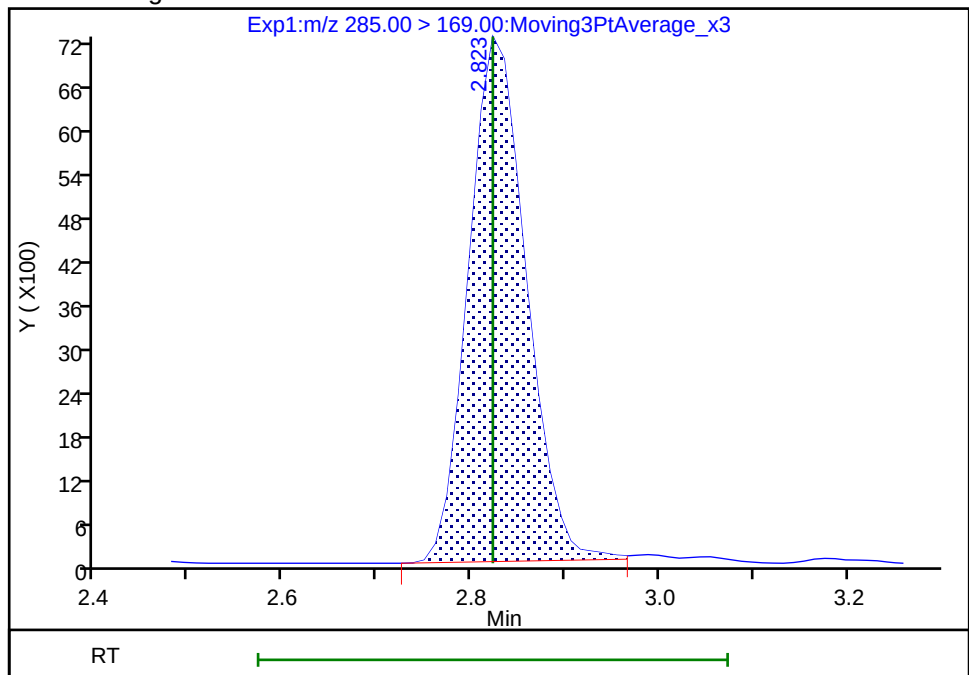
RT: 2.82
Area: 30884
Amount: 0.100546
Amount Units: ng/ml

Processing Integration Results



RT: 2.82
Area: 30760
Amount: 0.100143
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 519 of 978

11/21/2022
4:10 PM

Eurofins Burlington

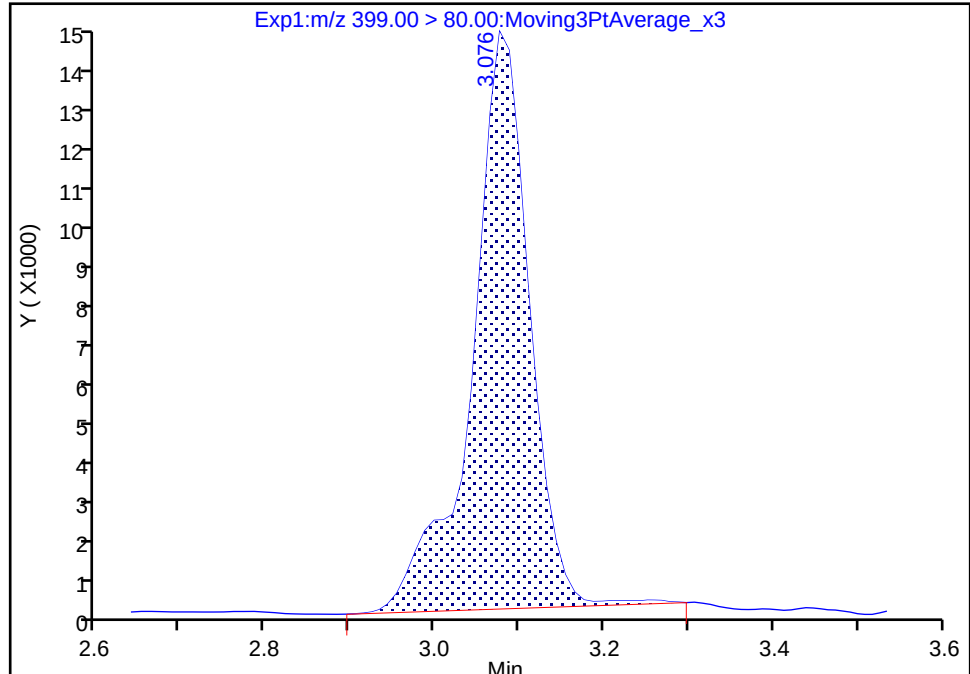
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

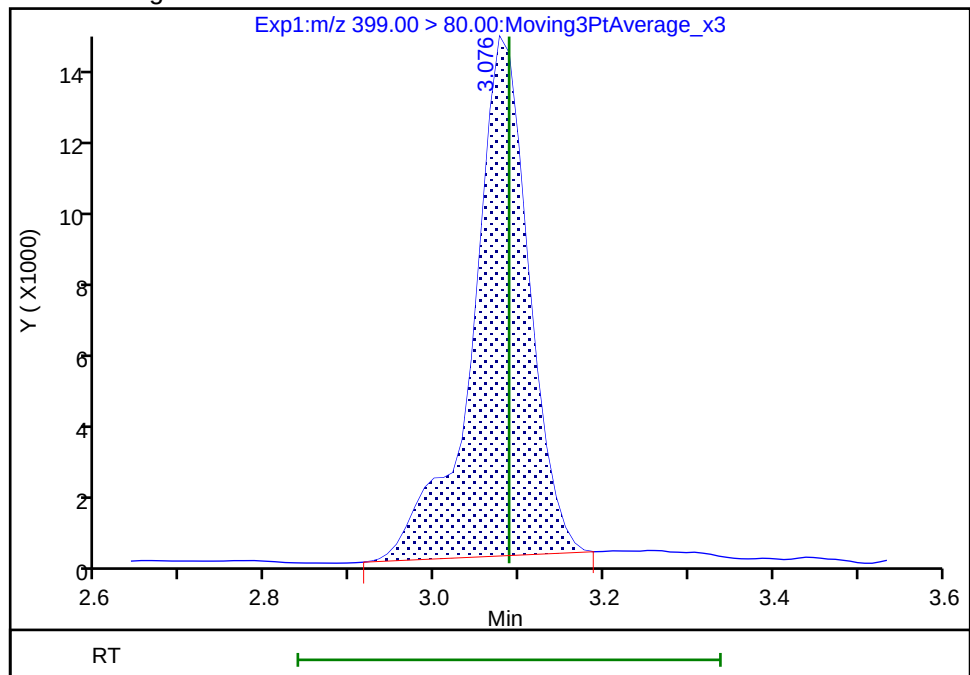
RT: 3.08
Area: 67192
Amount: 0.046313
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 65736
Amount: 0.045309
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 520 of 978

11/21/2022
4:10 PM

Eurofins Burlington

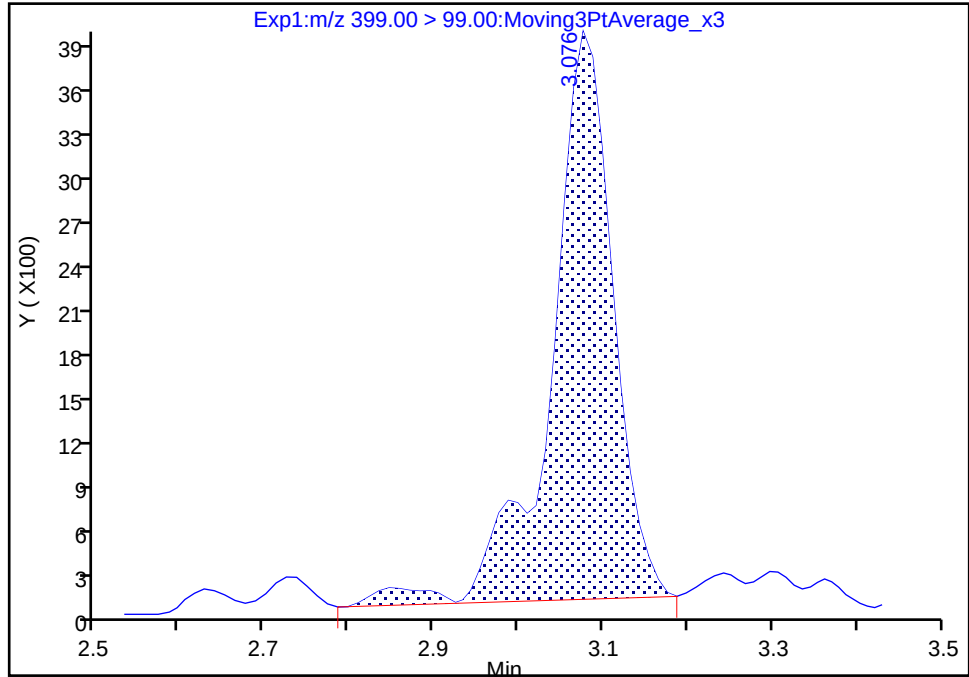
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

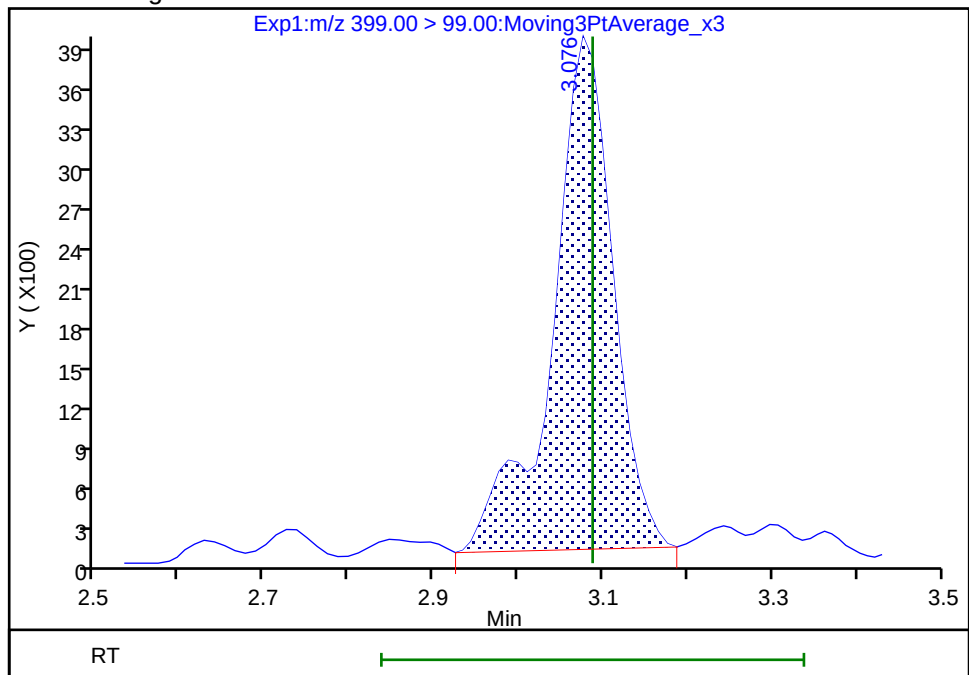
RT: 3.08
Area: 19526
Amount: 0.046313
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 18934
Amount: 0.045309
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 521 of 97811/21/2022
4:10 PM

Eurofins Burlington

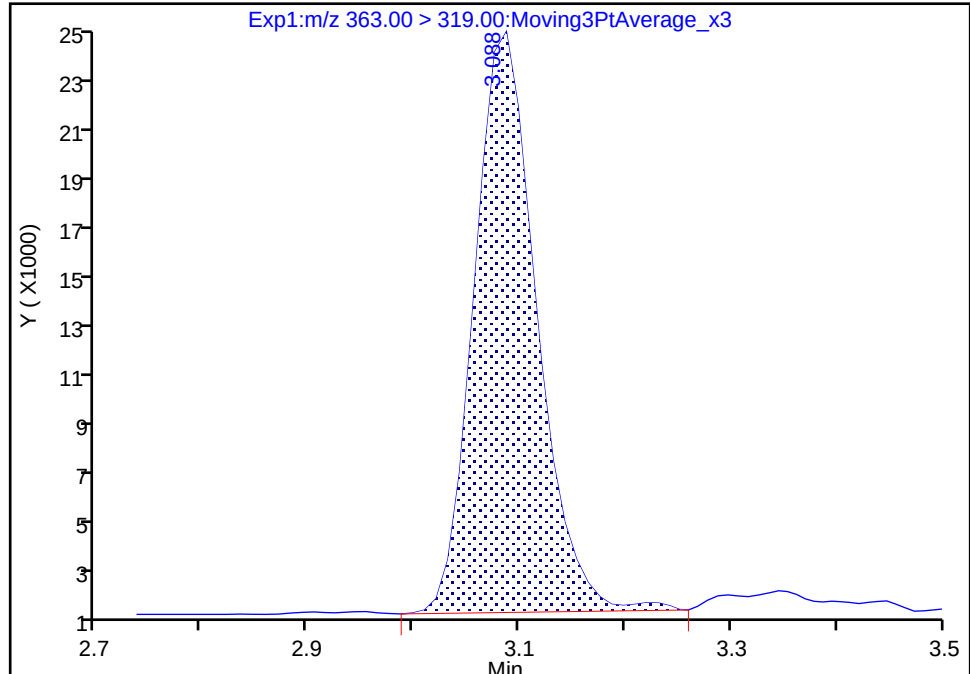
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

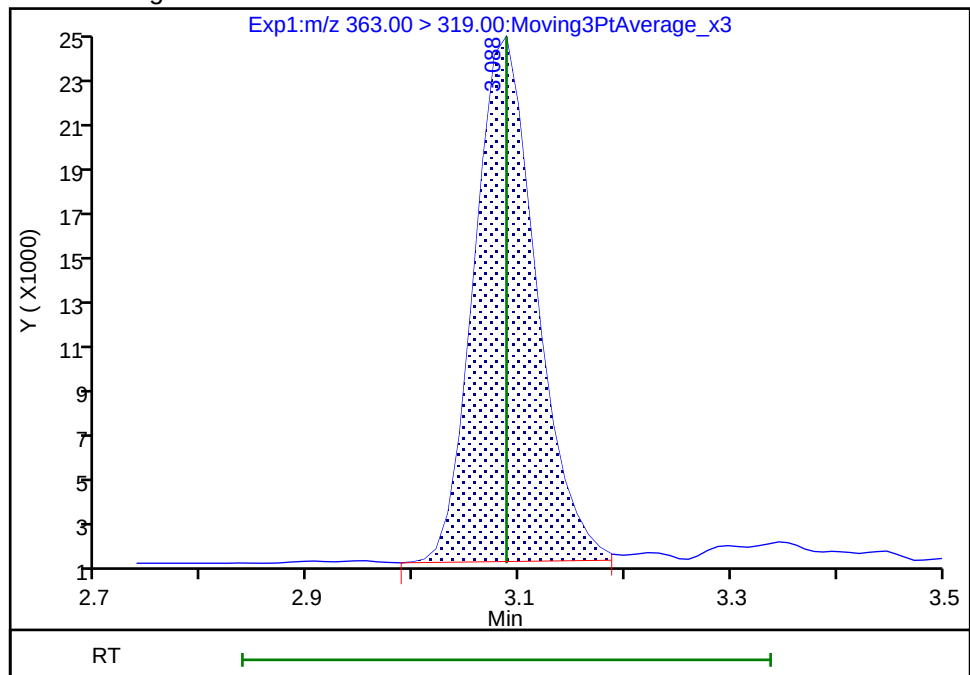
RT: 3.09
Area: 97682
Amount: 0.052590
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 96747
Amount: 0.052087
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 522 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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)

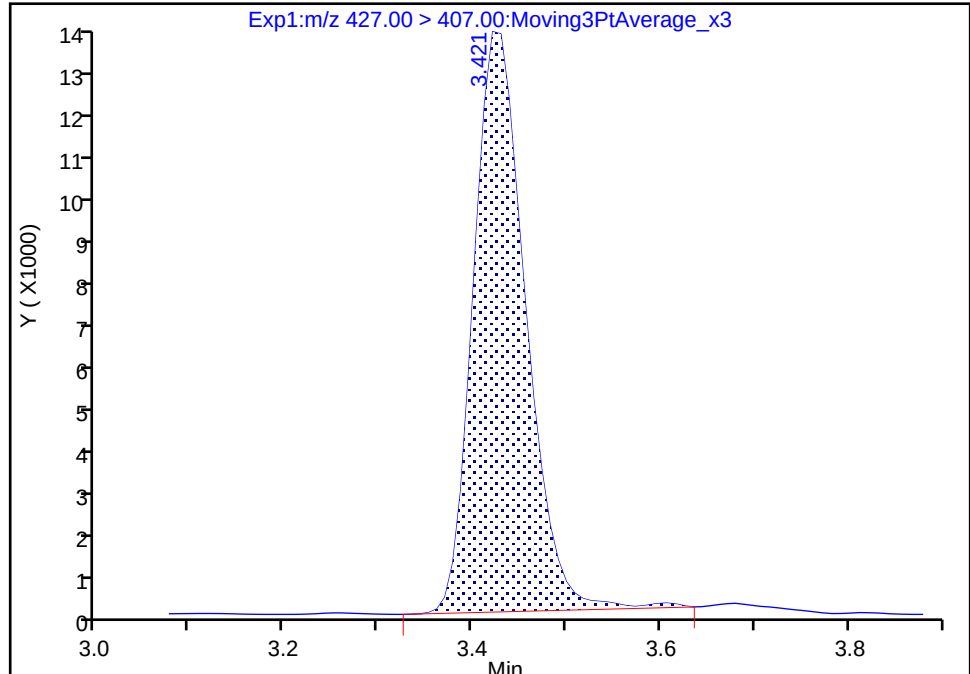
Detector: EXP1

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

Signal: 1

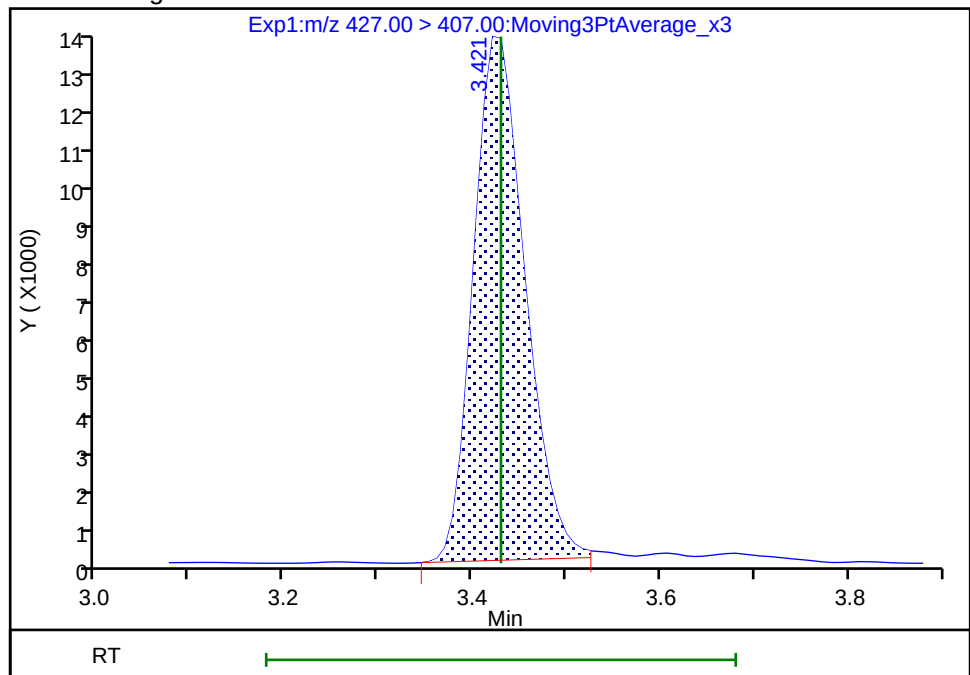
RT: 3.42
Area: 52793
Amount: 0.134863
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 51944
Amount: 0.132694
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:33:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

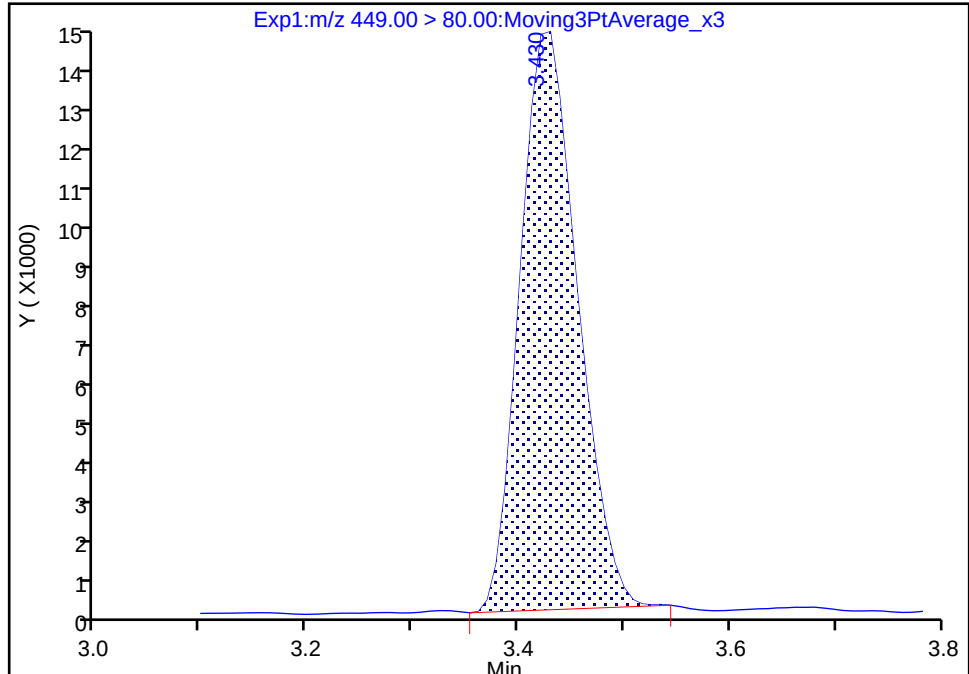
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

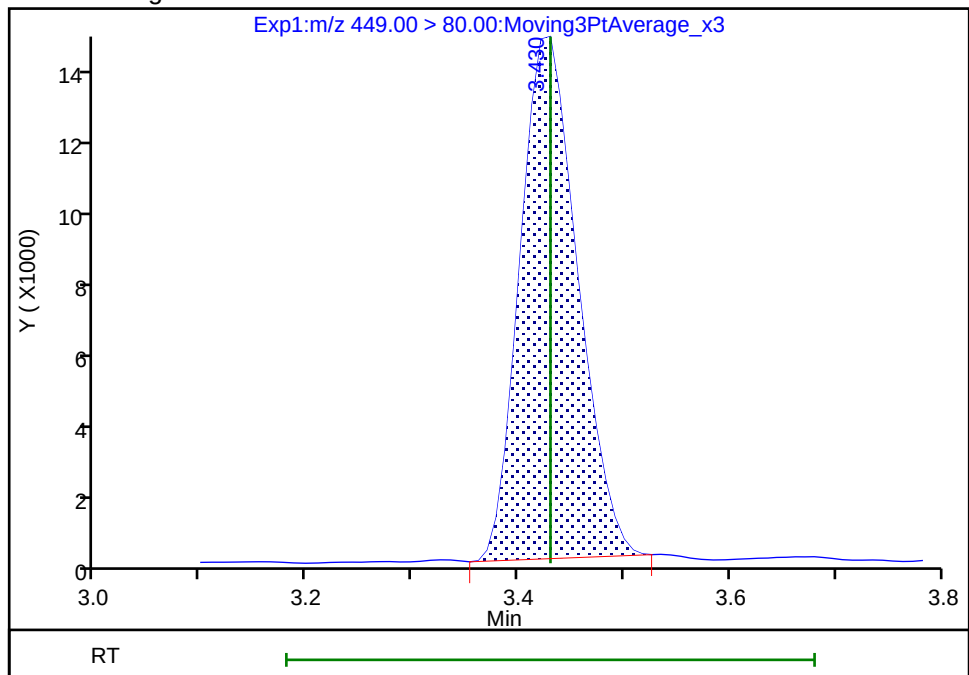
RT: 3.43
Area: 55790
Amount: 0.046056
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 55627
Amount: 0.045921
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:32:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 524 of 978

11/21/2022
4:10 PM

Eurofins Burlington

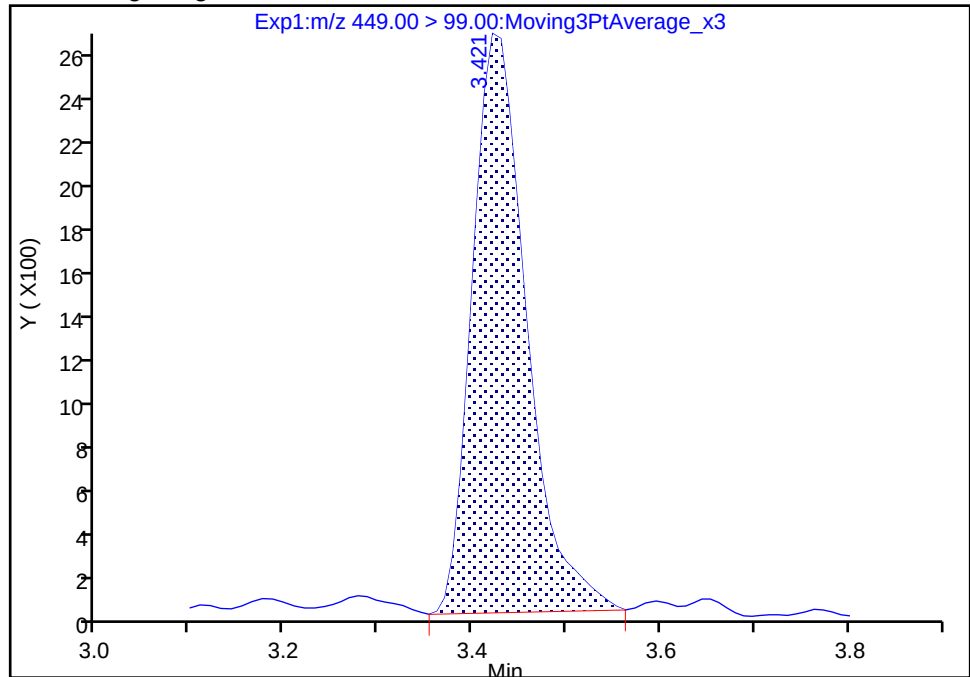
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

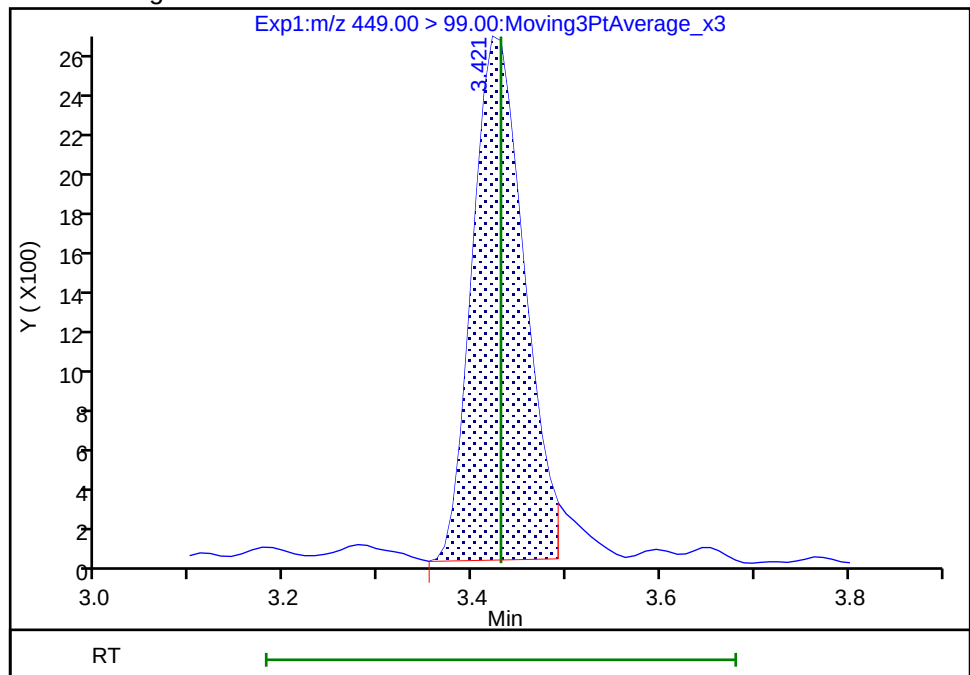
RT: 3.42
Area: 10597
Amount: 0.046056
Amount Units: ng/ml

Processing Integration Results



RT: 3.42
Area: 10096
Amount: 0.045921
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:33:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 525 of 97811/21/2022
4:10 PM

Eurofins Burlington

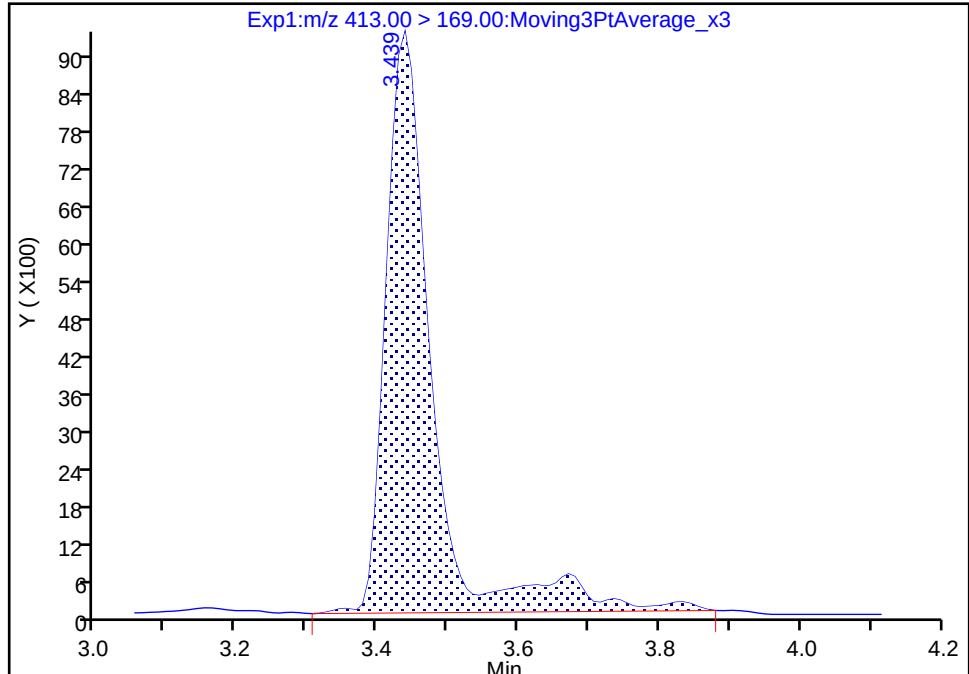
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

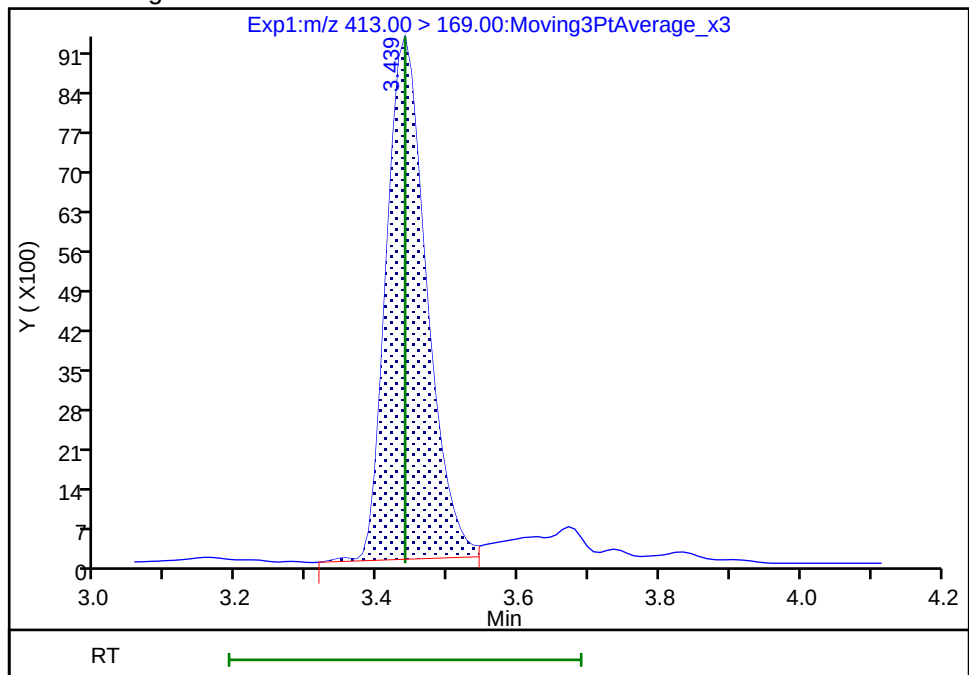
RT: 3.44
Area: 42345
Amount: 0.047211
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 36702
Amount: 0.047211
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:33:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 526 of 978

11/21/2022
4:10 PM

Eurofins Burlington

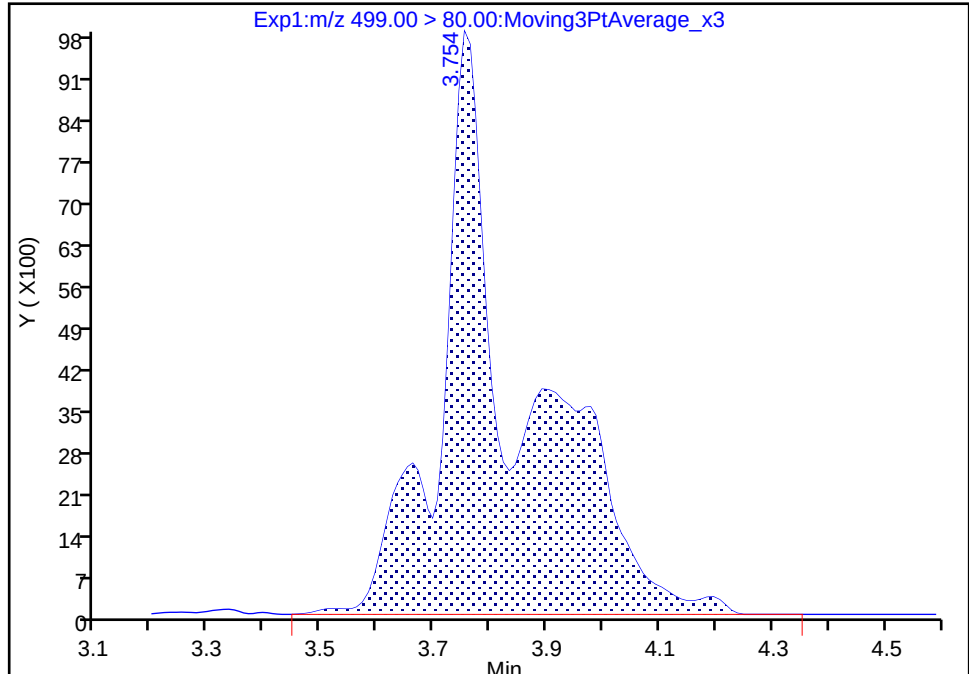
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

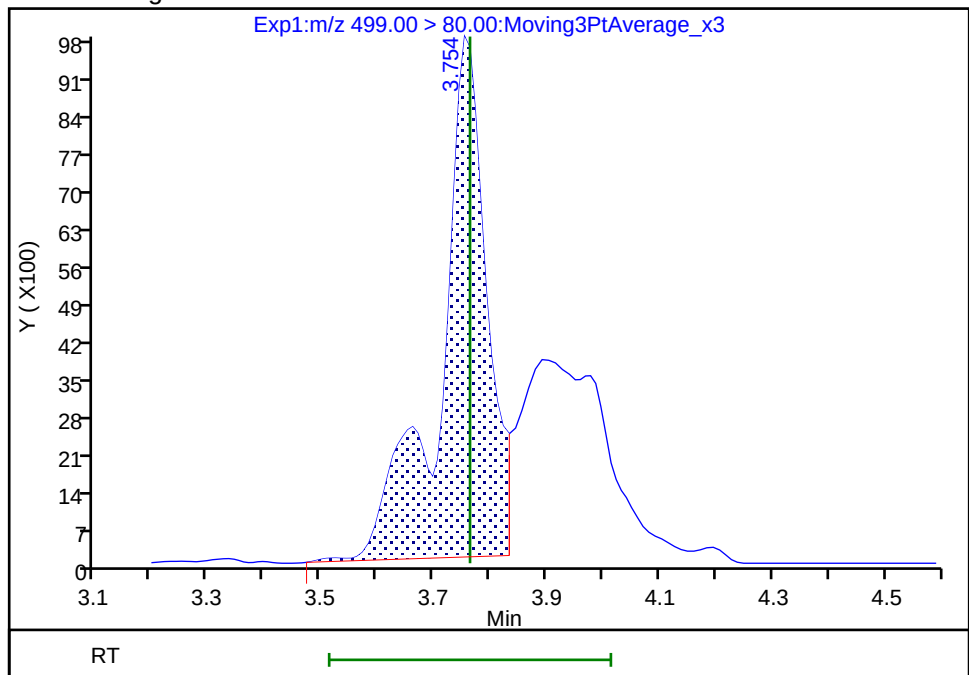
RT: 3.75
Area: 100239
Amount: 0.095963
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 55654
Amount: 0.053280
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 16-Nov-2022 10:02:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 527 of 978

11/21/2022
4:10 PM

Eurofins Burlington

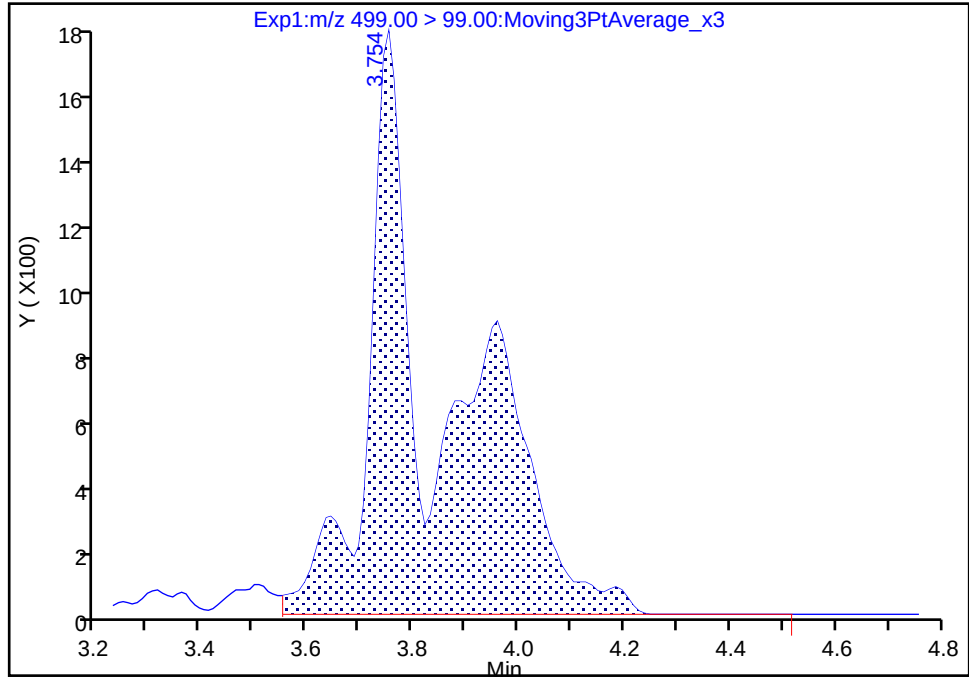
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

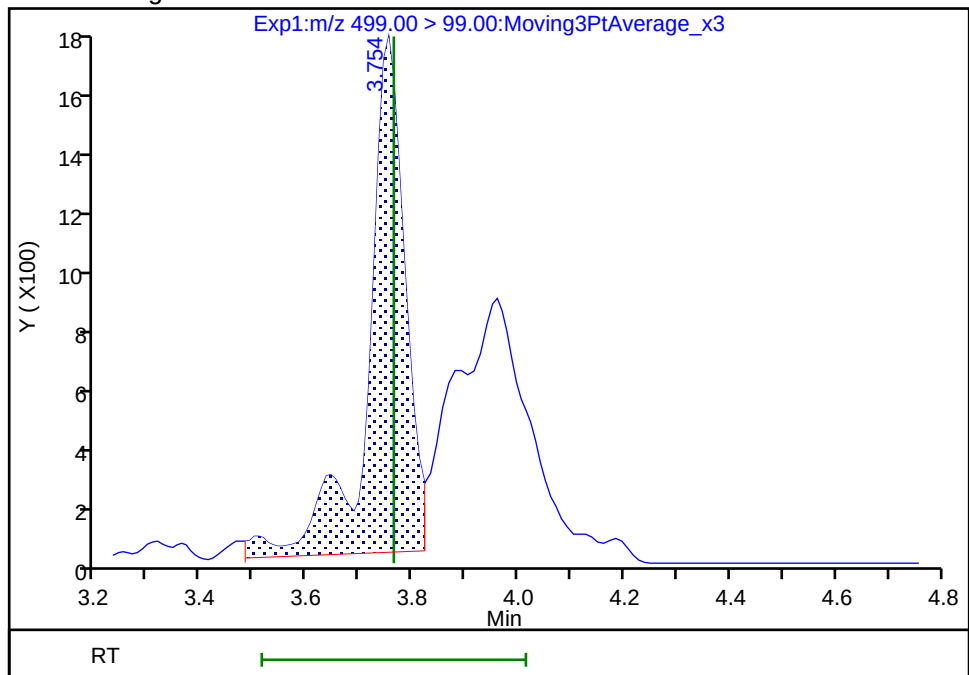
RT: 3.75
Area: 17791
Amount: 0.095963
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 8373
Amount: 0.053280
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:33:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 528 of 97811/21/2022
4:10 PM

Eurofins Burlington

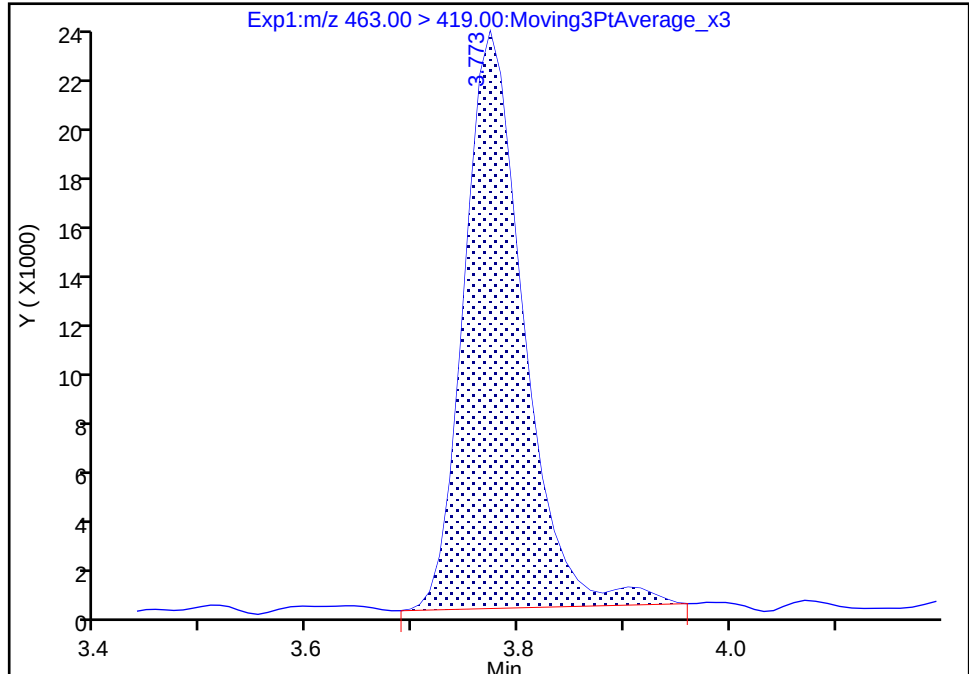
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

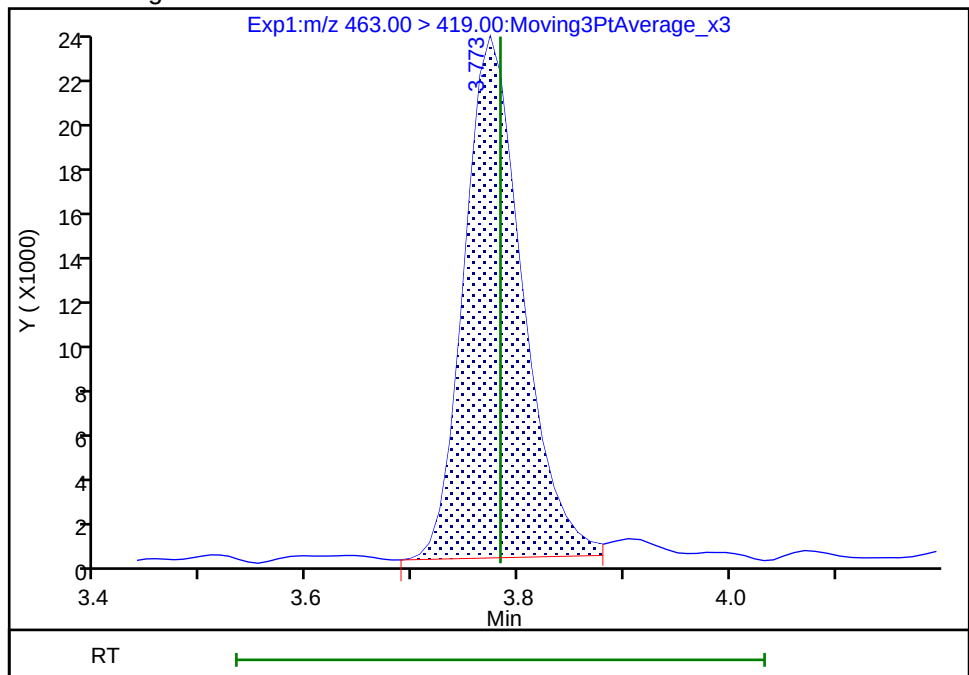
RT: 3.77
Area: 88359
Amount: 0.043825
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 86310
Amount: 0.042809
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 529 of 978

11/21/2022
4:10 PM

Eurofins Burlington

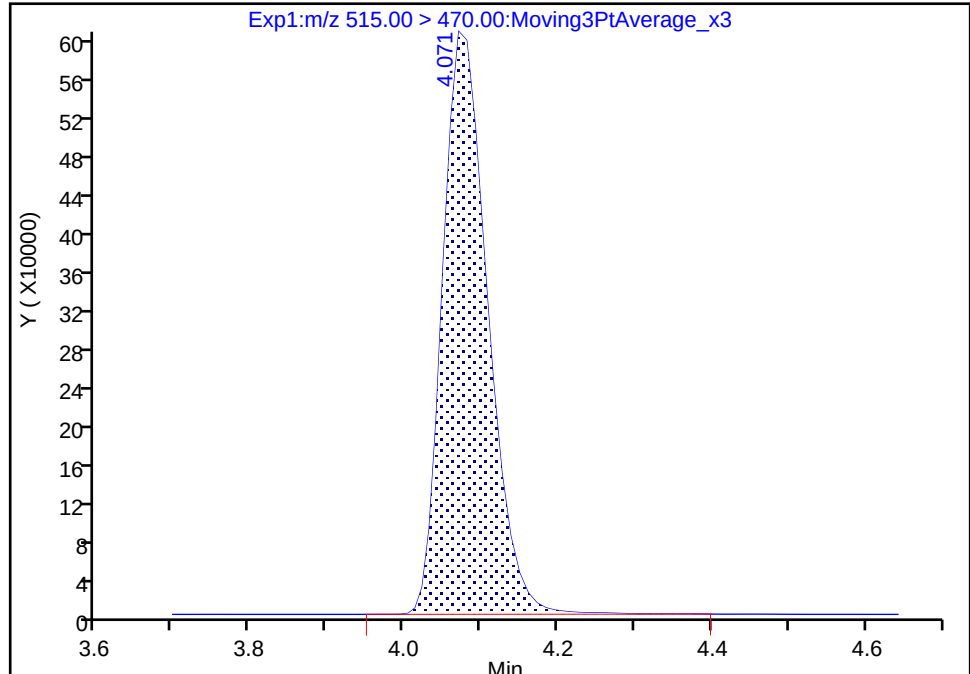
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

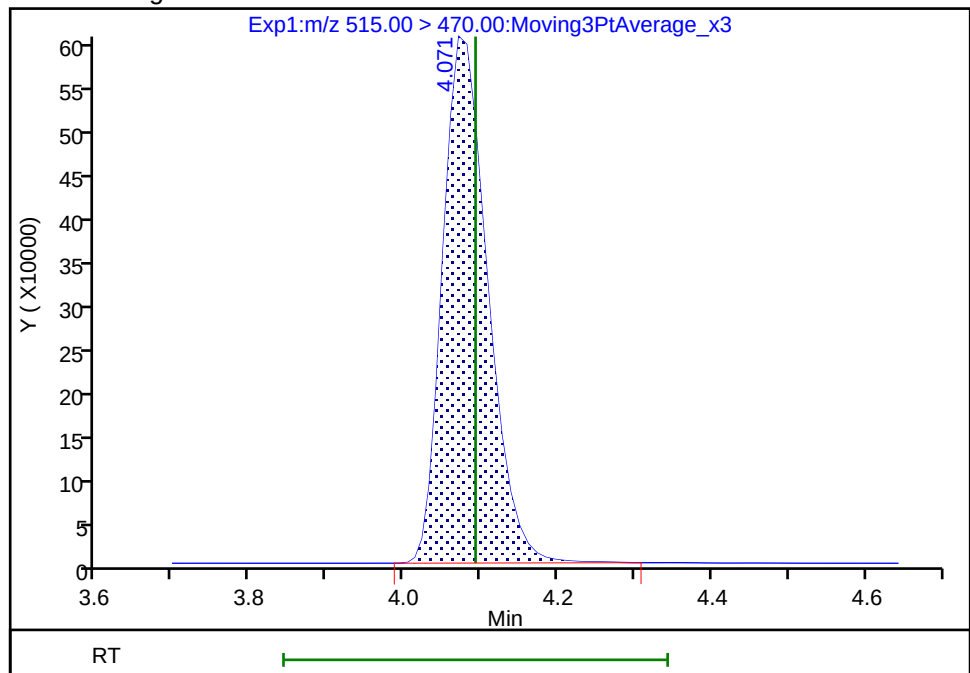
RT: 4.07
Area: 2444805
Amount: 1.351383
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 2439334
Amount: 1.348359
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:40:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 530 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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)

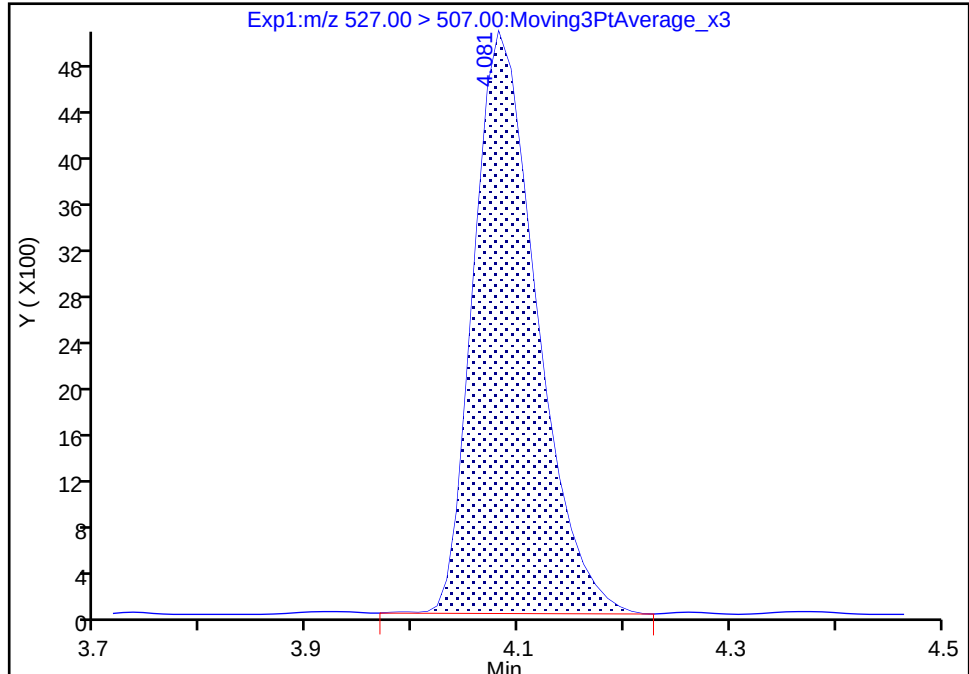
Detector: EXP1

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

Signal: 1

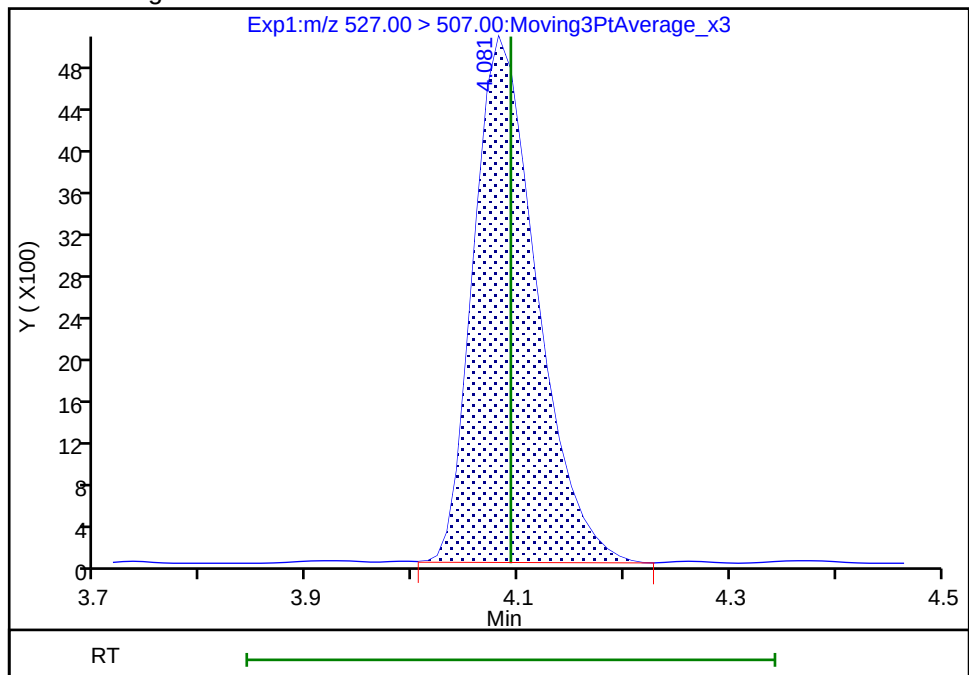
RT: 4.08
Area: 20948
Amount: 0.065499
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 20934
Amount: 0.065456
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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)

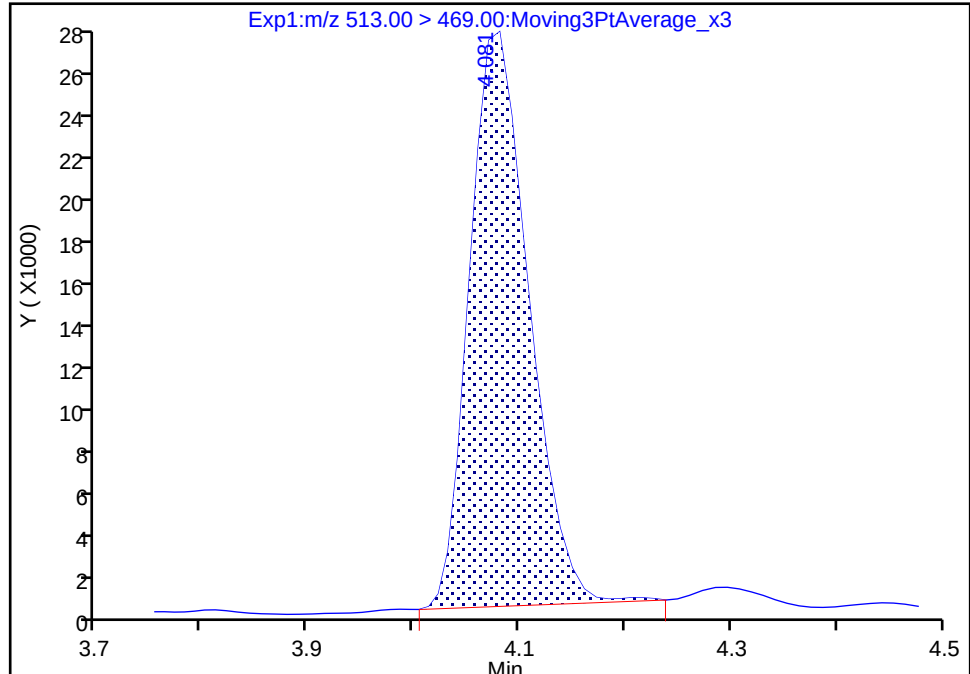
Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

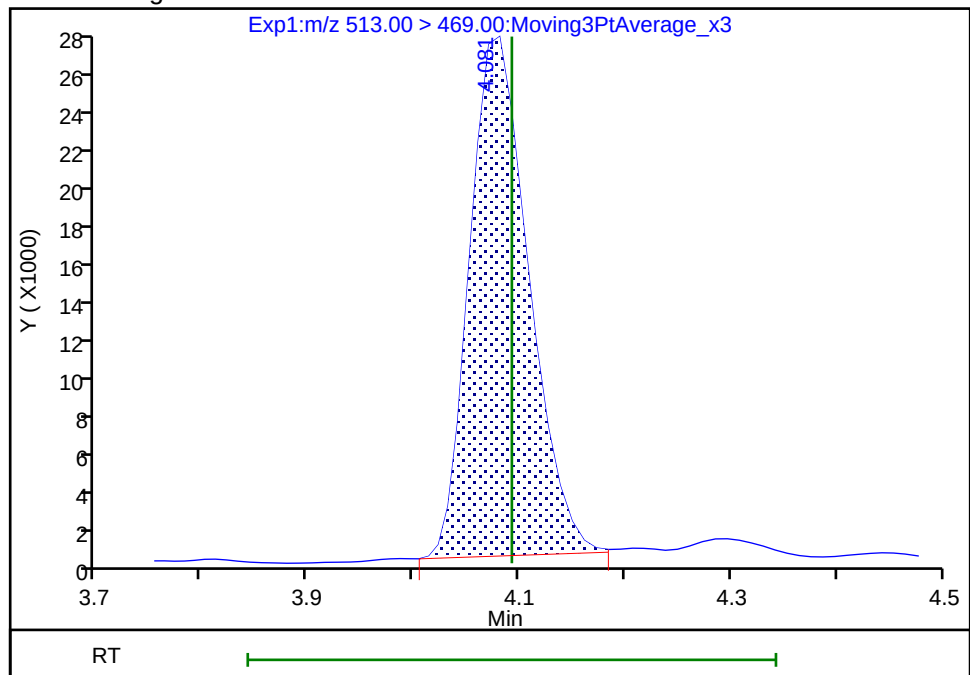
RT: 4.08
Area: 104136
Amount: 0.049623
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 103719
Amount: 0.049424
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

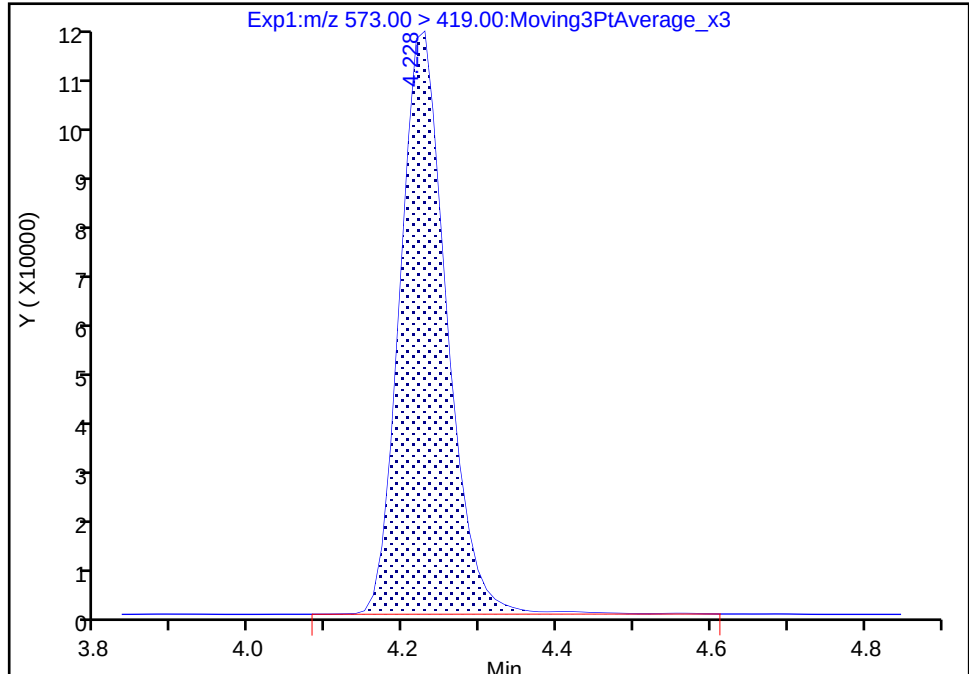
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

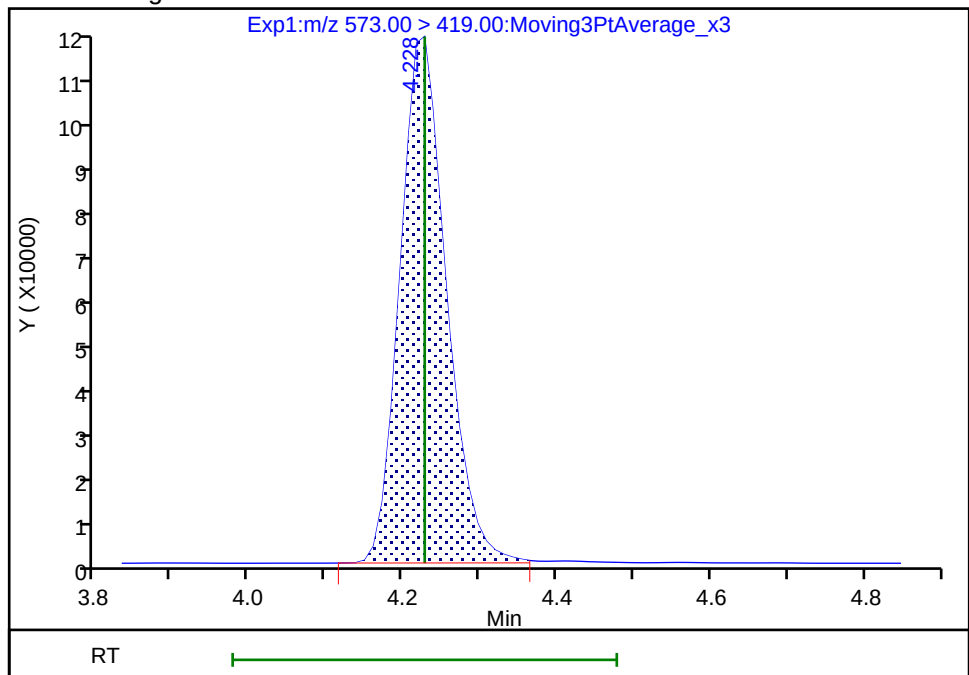
RT: 4.23
Area: 465316
Amount: 1.826580
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 462122
Amount: 1.814042
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:41:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

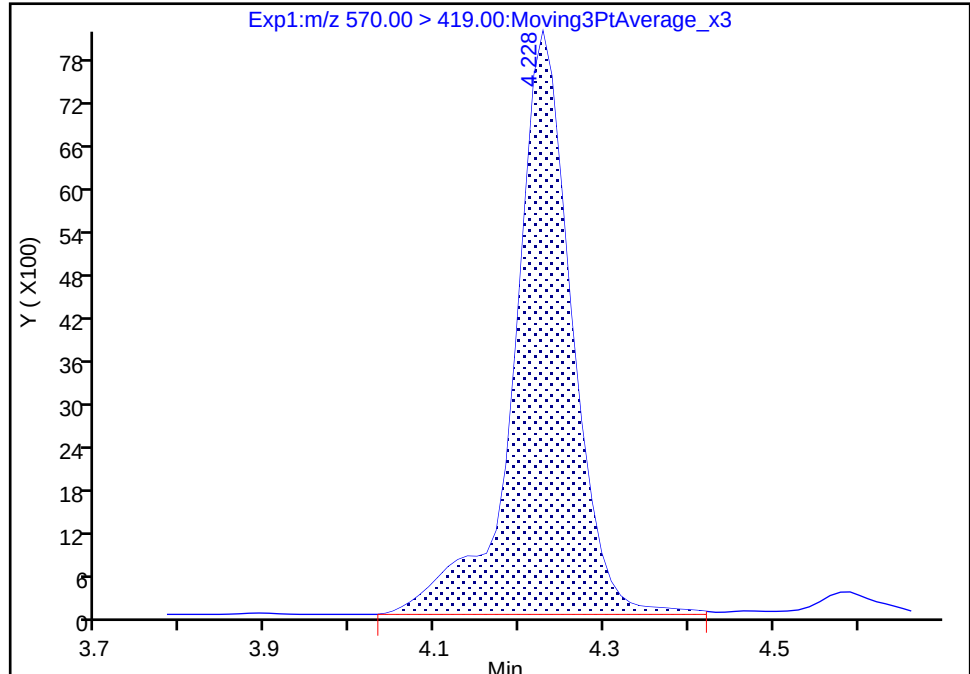
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

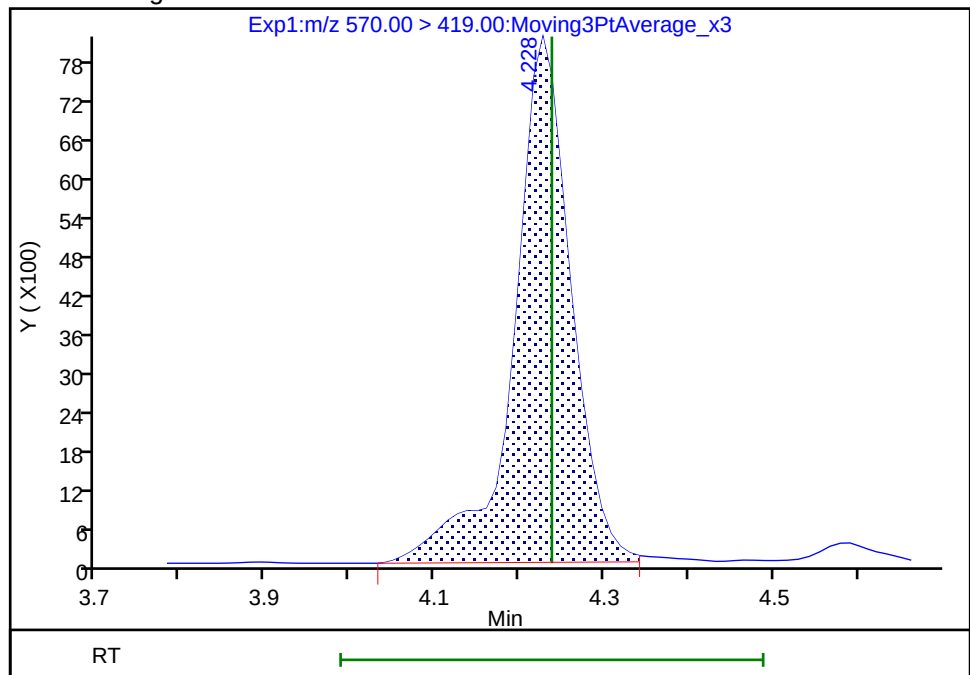
RT: 4.23
Area: 38957
Amount: 0.113944
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 38377
Amount: 0.112248
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 534 of 978

11/21/2022
4:10 PM

Eurofins Burlington

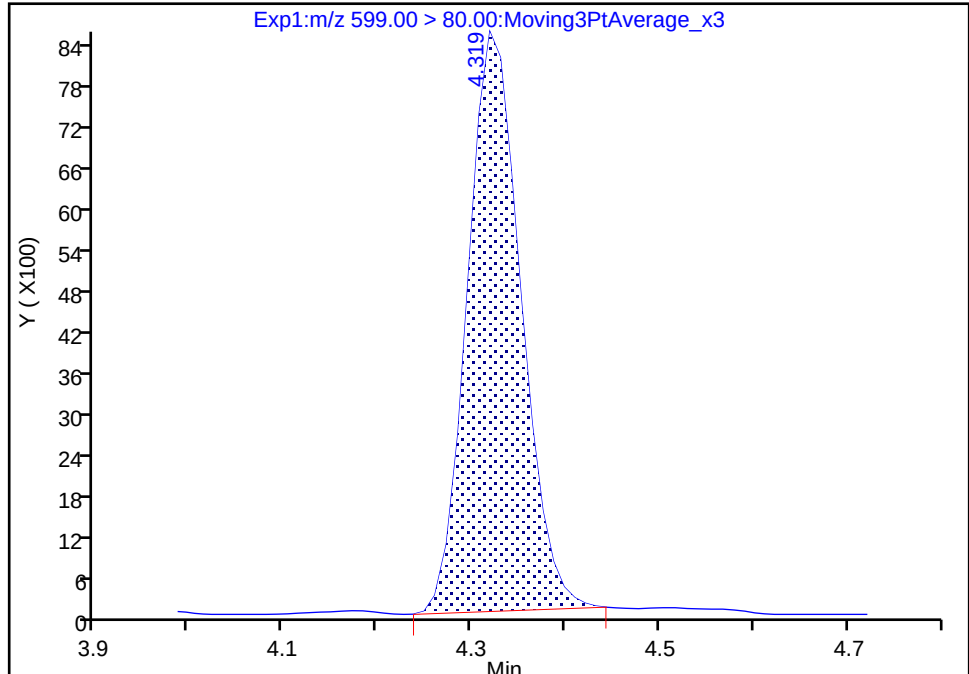
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

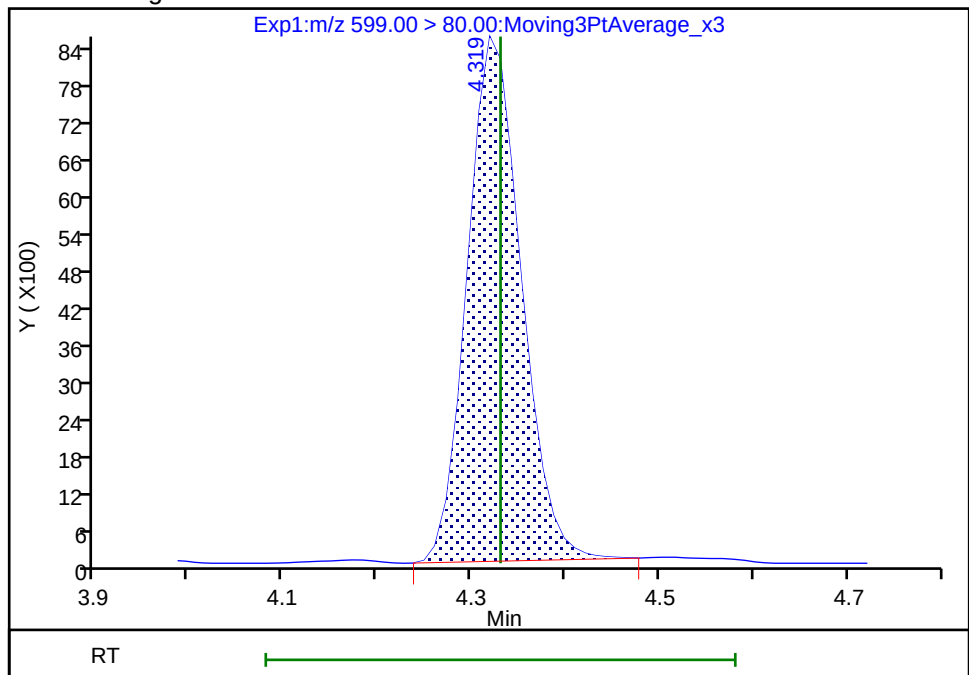
RT: 4.32
Area: 33730
Amount: 0.056861
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 33950
Amount: 0.057232
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 535 of 978

11/21/2022
4:10 PM

Eurofins Burlington

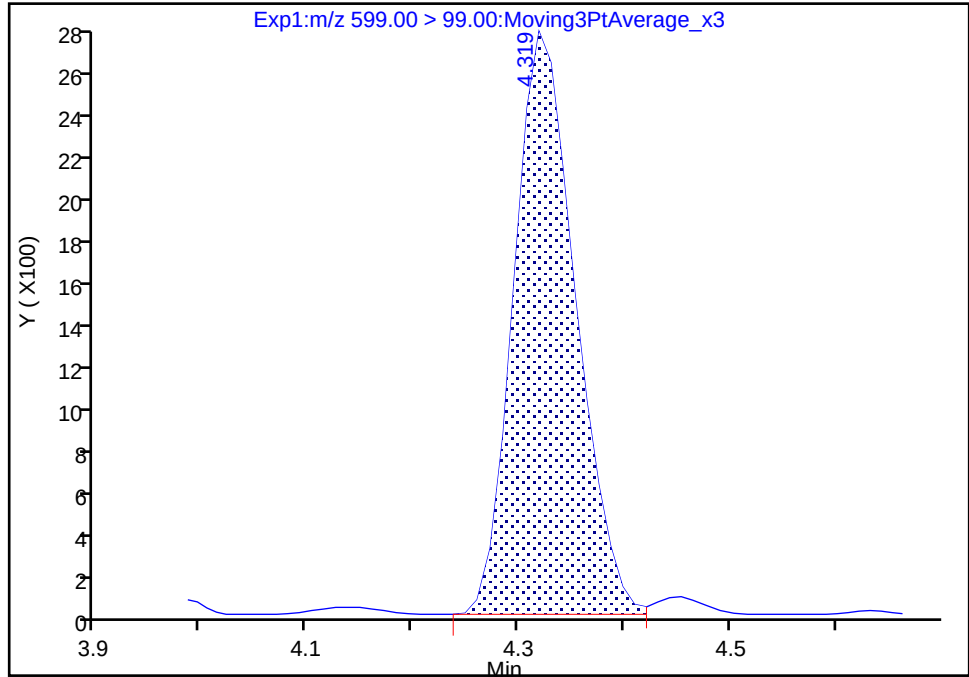
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

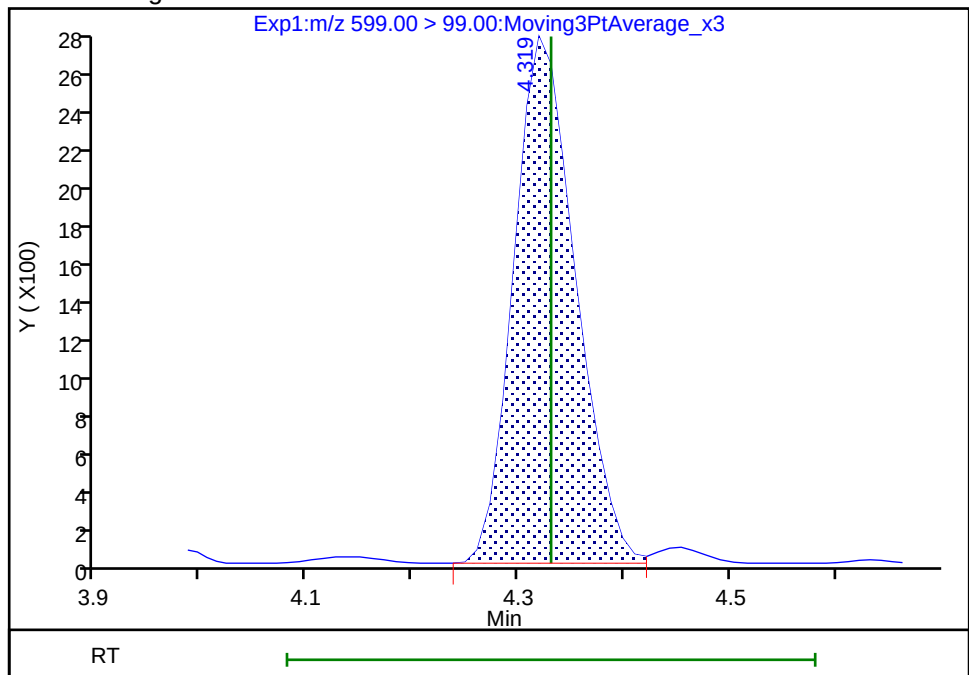
RT: 4.32
Area: 11245
Amount: 0.056861
Amount Units: ng/ml

Processing Integration Results



RT: 4.32
Area: 11245
Amount: 0.057232
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 536 of 97811/21/2022
4:10 PM

Eurofins Burlington

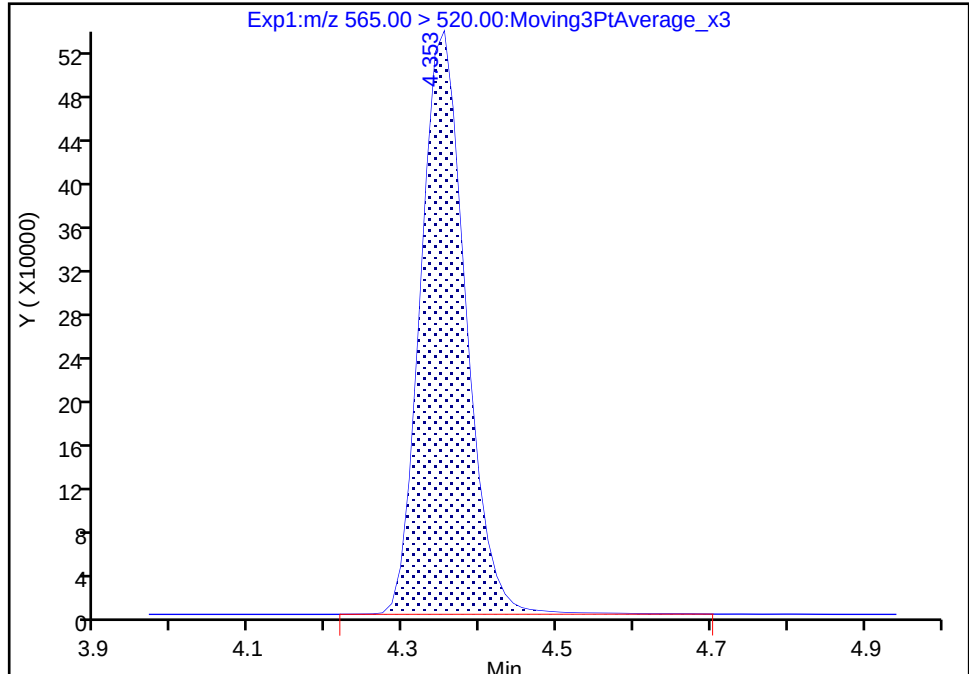
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

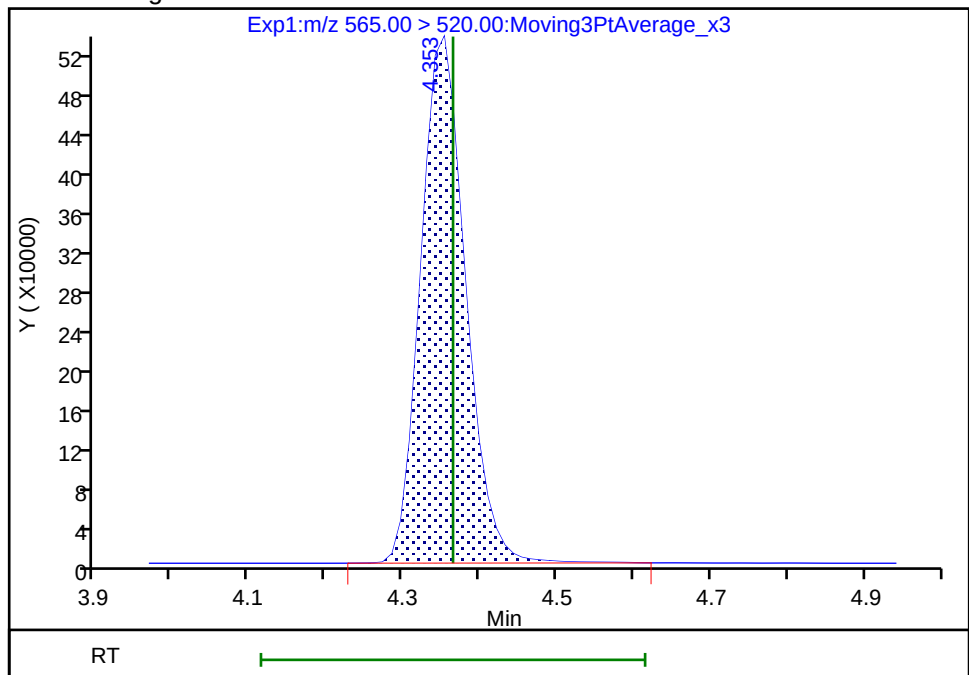
RT: 4.35
Area: 2151766
Amount: 1.452525
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2148677
Amount: 1.450440
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:41:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

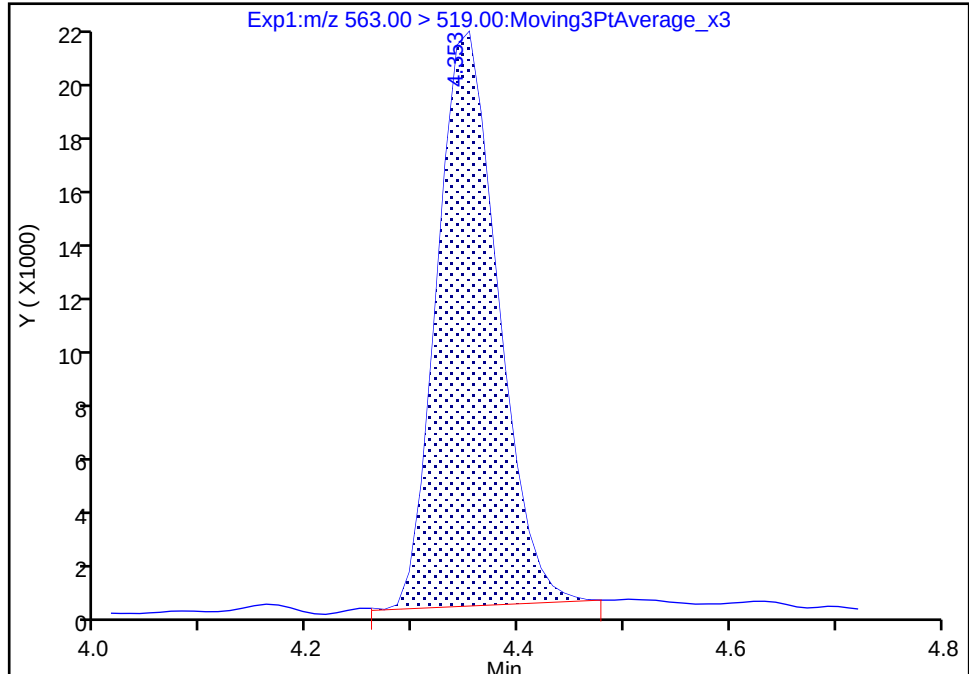
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

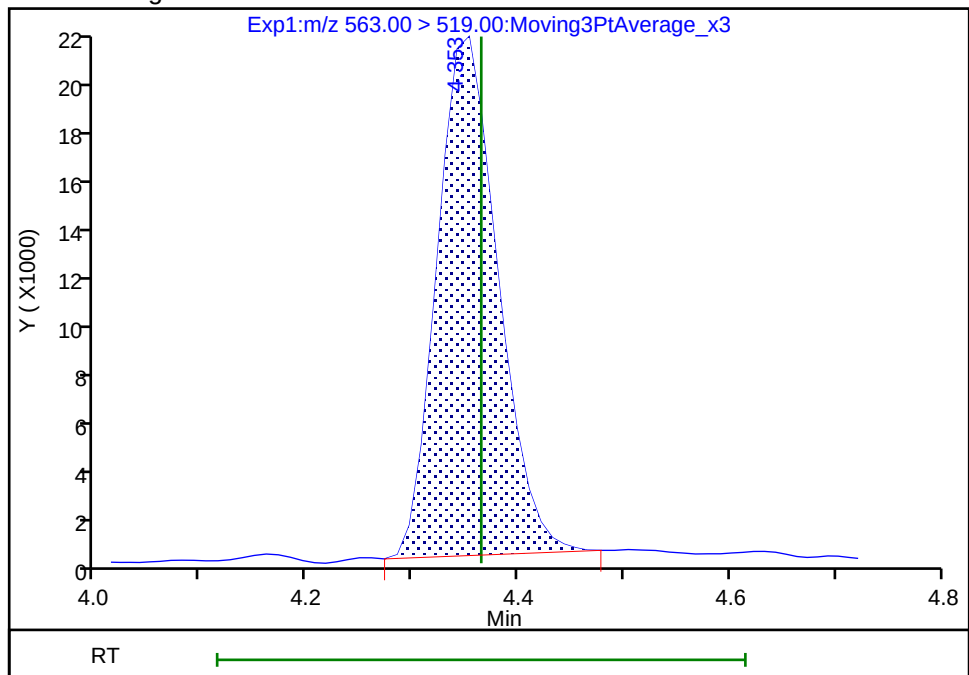
RT: 4.35
Area: 85399
Amount: 0.047627
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 85312
Amount: 0.047578
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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

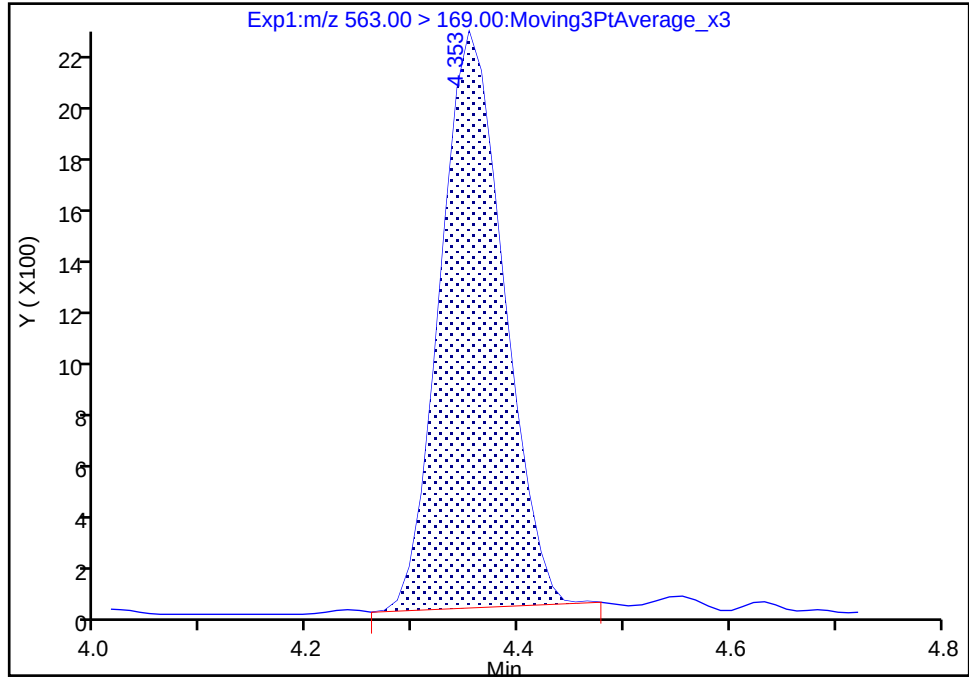
EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

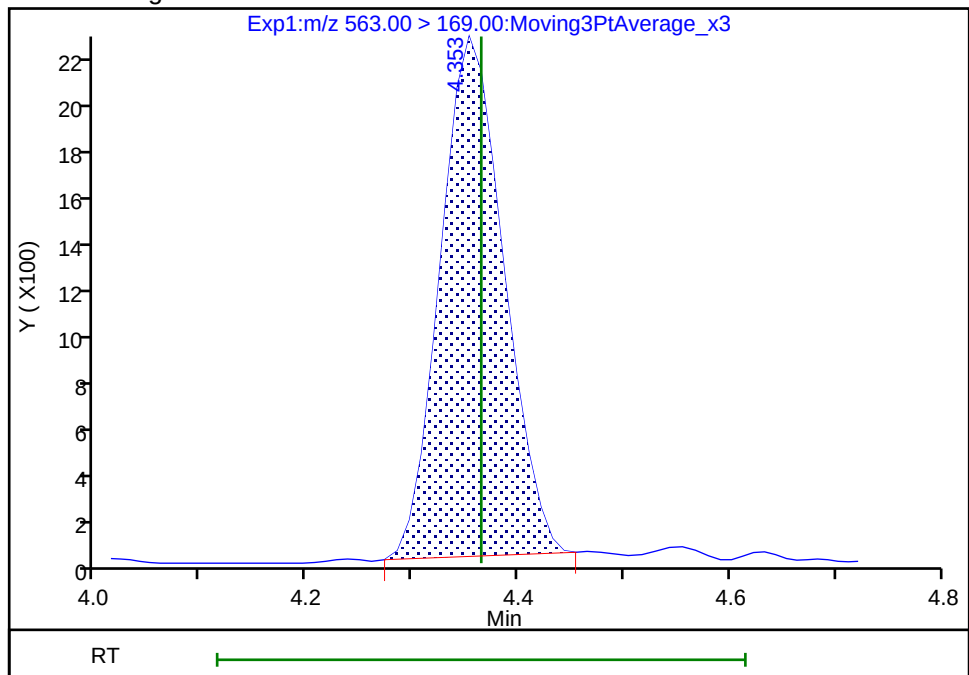
RT: 4.35
Area: 9433
Amount: 0.047627
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 9376
Amount: 0.047578
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:34:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

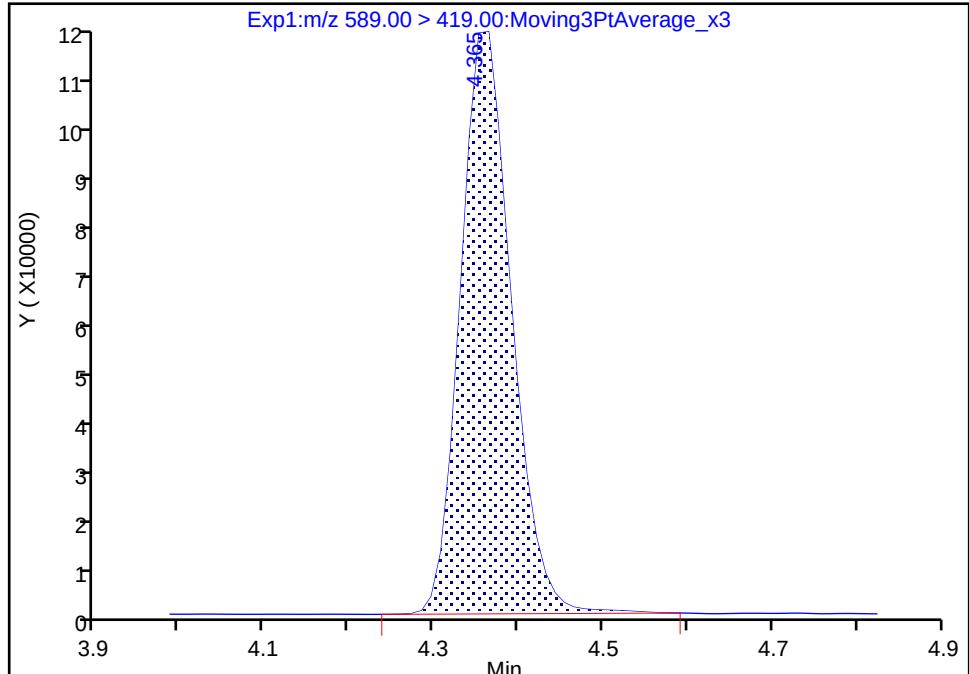
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

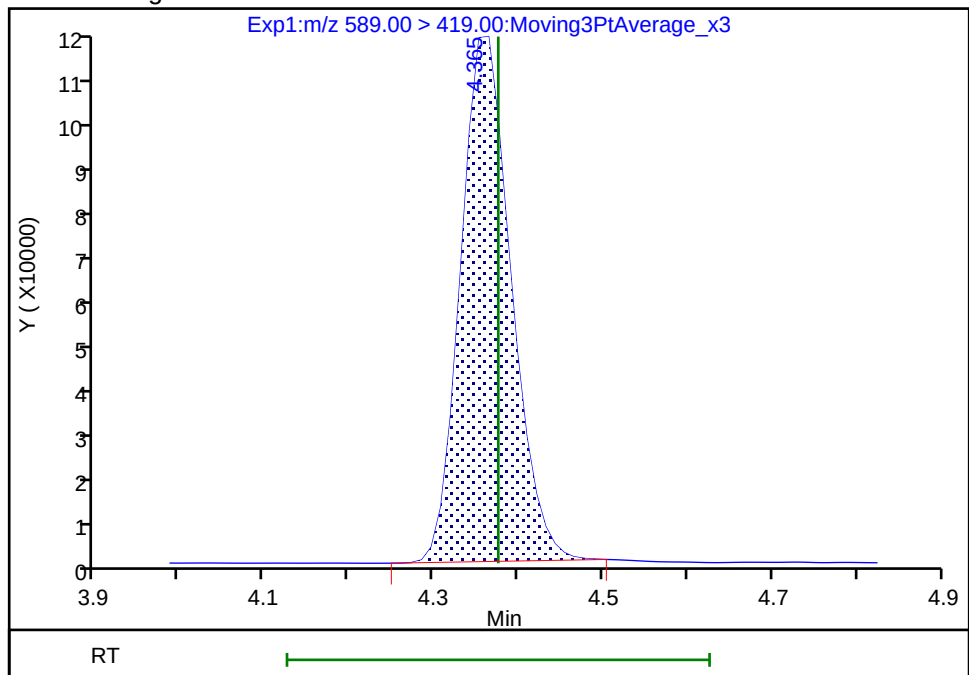
RT: 4.36
Area: 465679
Amount: 1.841944
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 459658
Amount: 1.818128
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 17-Nov-2022 08:10:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 540 of 978

11/21/2022
4:10 PM

Eurofins Burlington

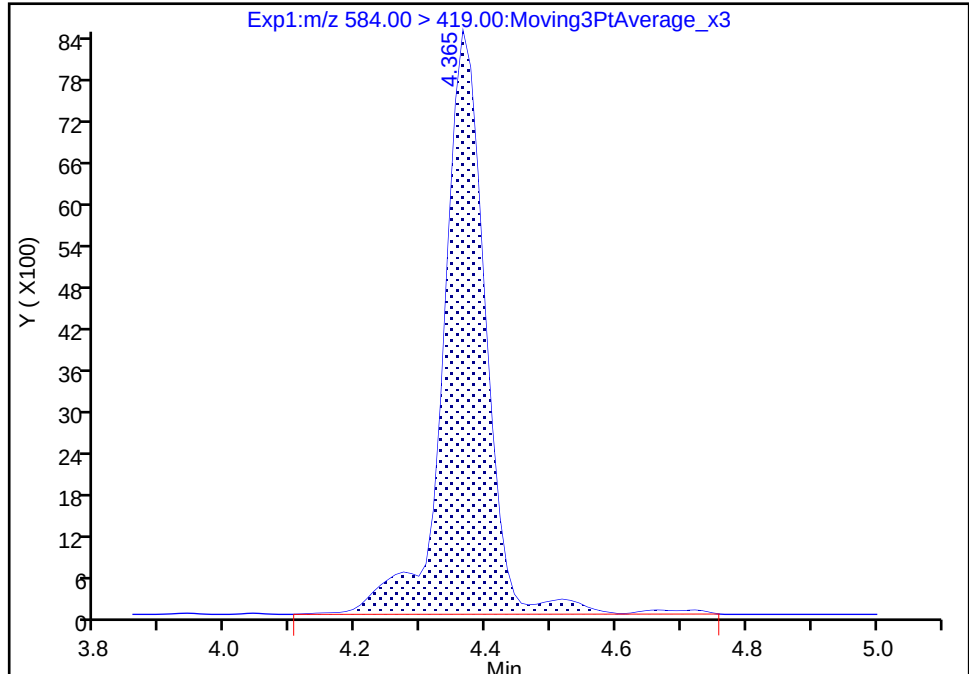
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

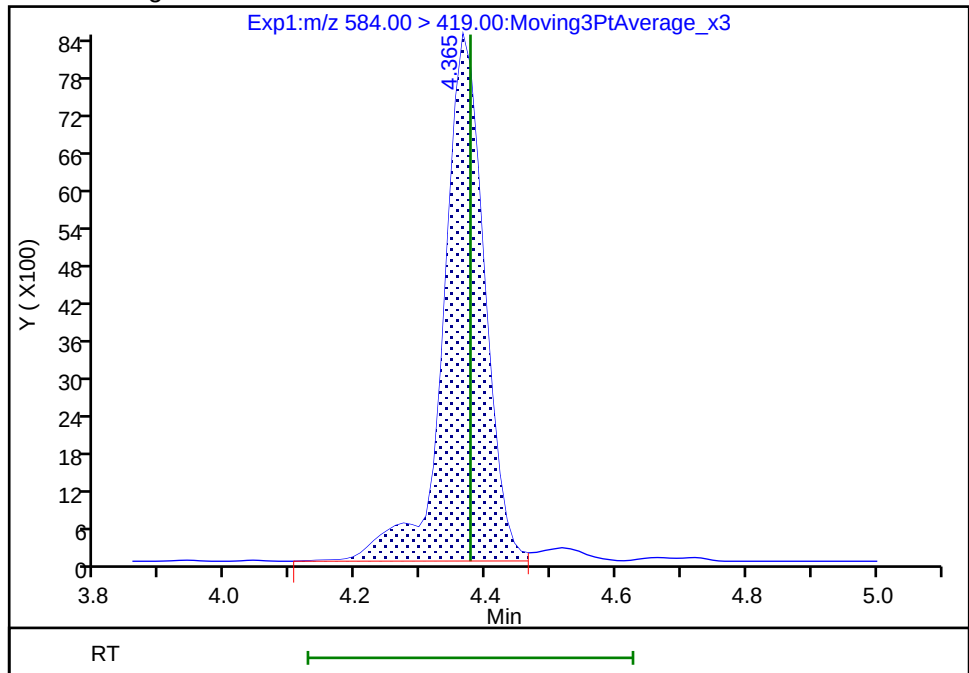
RT: 4.36
Area: 38726
Amount: 0.113770
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 37312
Amount: 0.111051
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:36:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 541 of 978

11/21/2022
4:10 PM

Eurofins Burlington

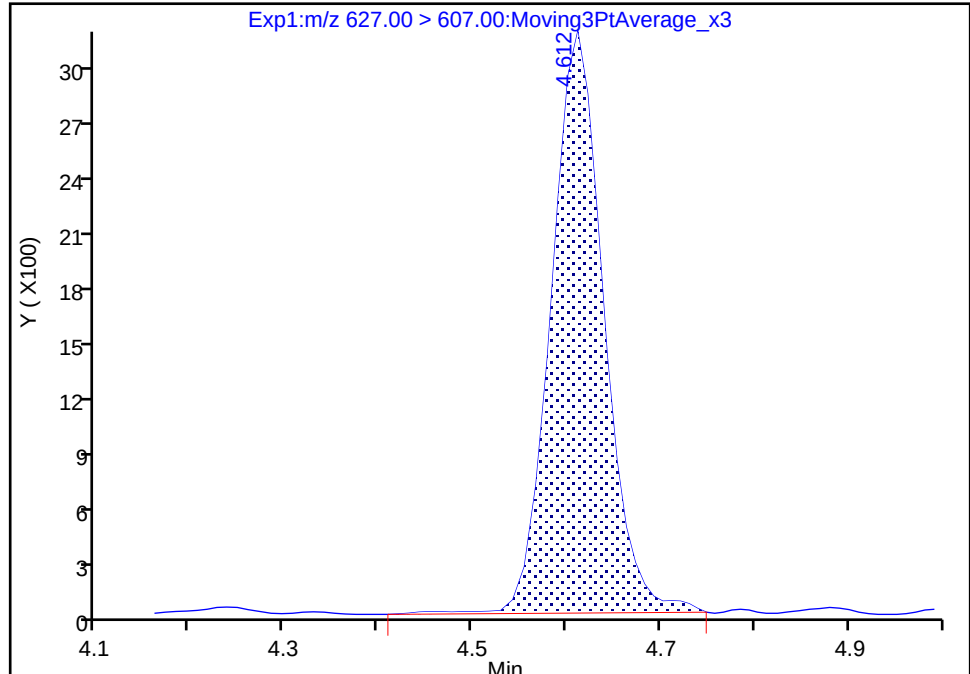
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

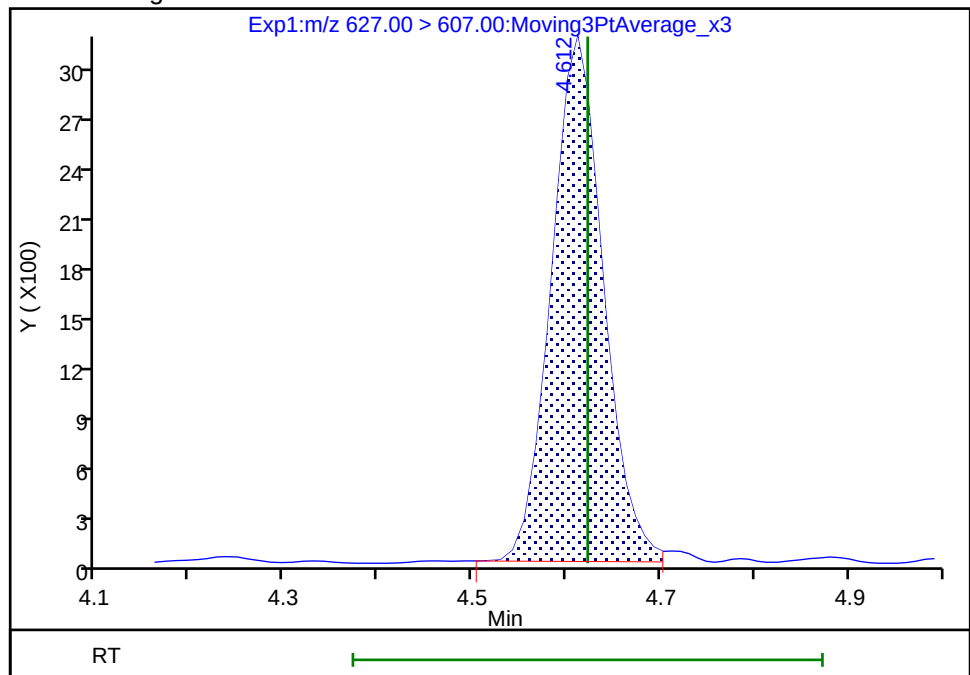
RT: 4.61
Area: 12401
Amount: 0.071423
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 12179
Amount: 0.070145
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:36:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 542 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d

Injection Date: 16-Nov-2022 09:34:49

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)

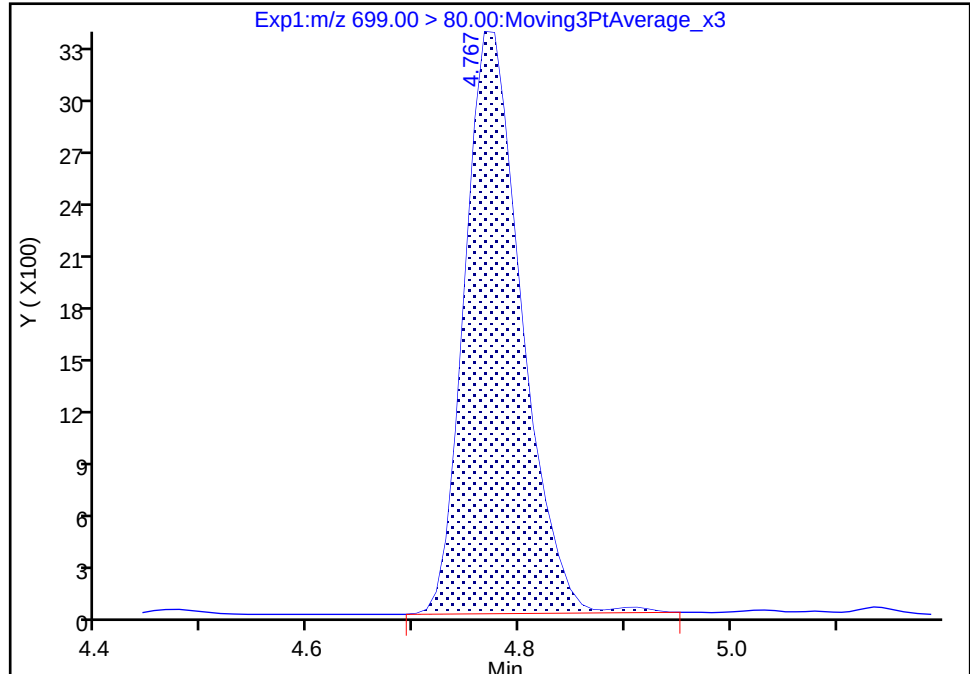
Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

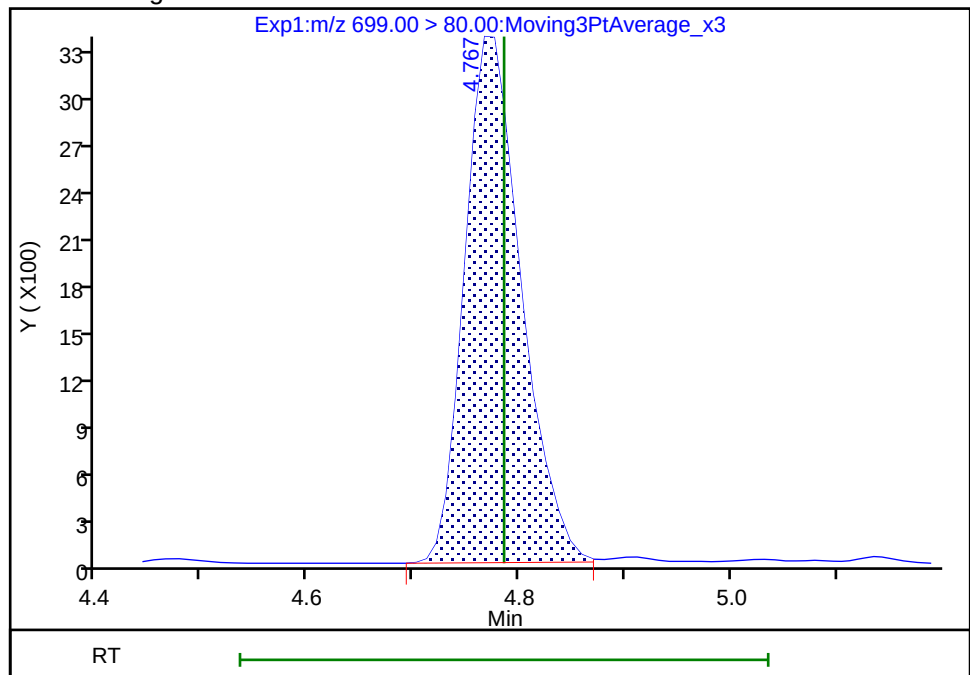
RT: 4.77
Area: 12602
Amount: 0.052257
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 12520
Amount: 0.051917
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:37:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

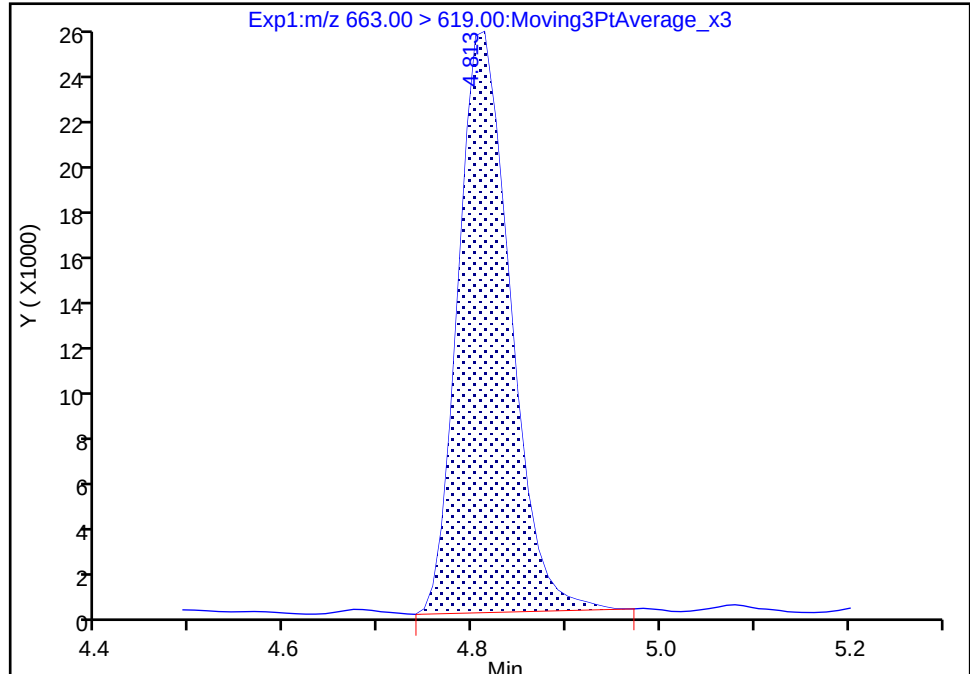
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

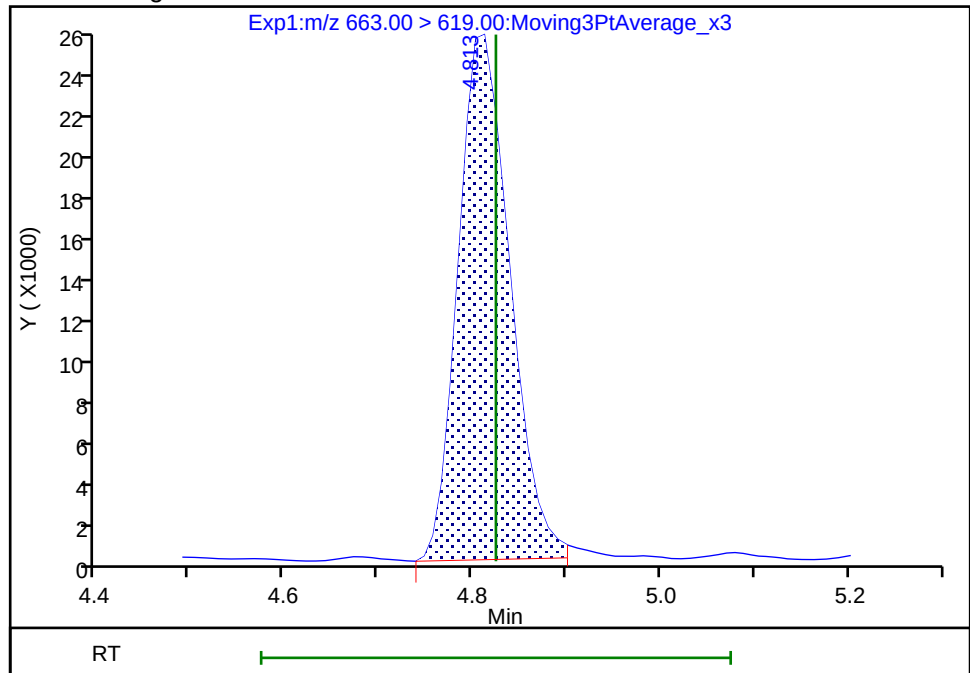
RT: 4.81
Area: 95739
Amount: 0.057395
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 94854
Amount: 0.056865
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 17-Nov-2022 08:10:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 544 of 978

11/21/2022
4:10 PM

Eurofins Burlington

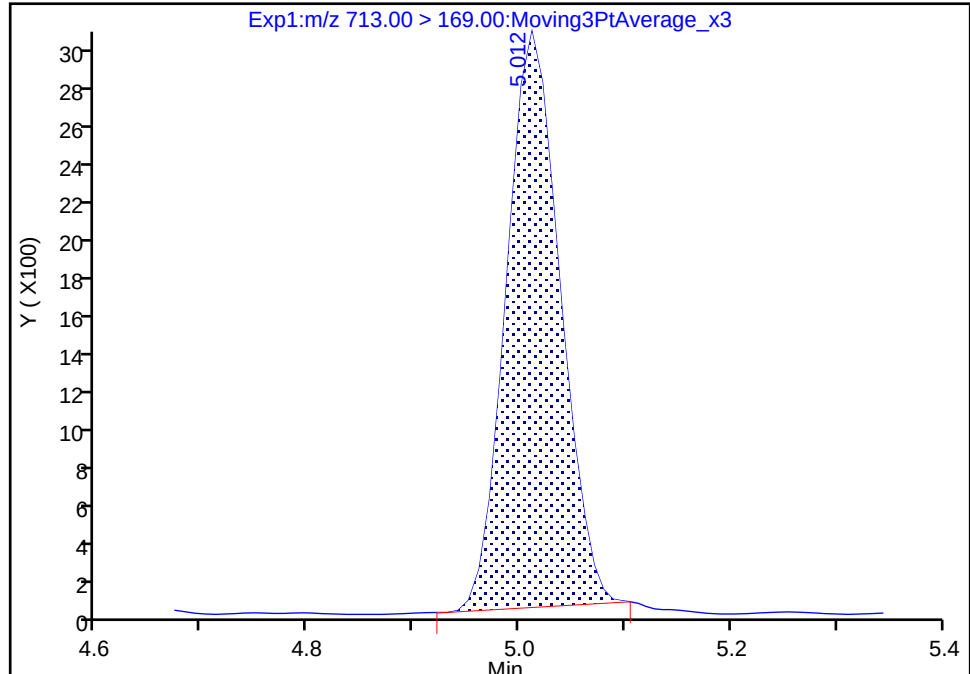
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

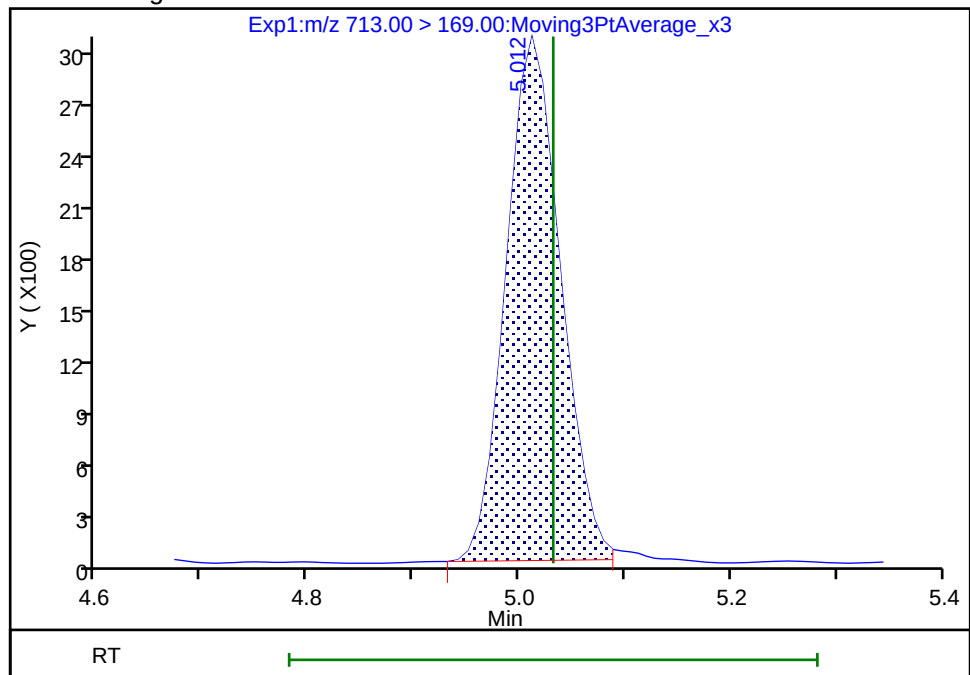
RT: 5.01
Area: 10680
Amount: 0.045357
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 10857
Amount: 0.046108
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:37:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 545 of 978

11/21/2022
4:10 PM

Eurofins Burlington

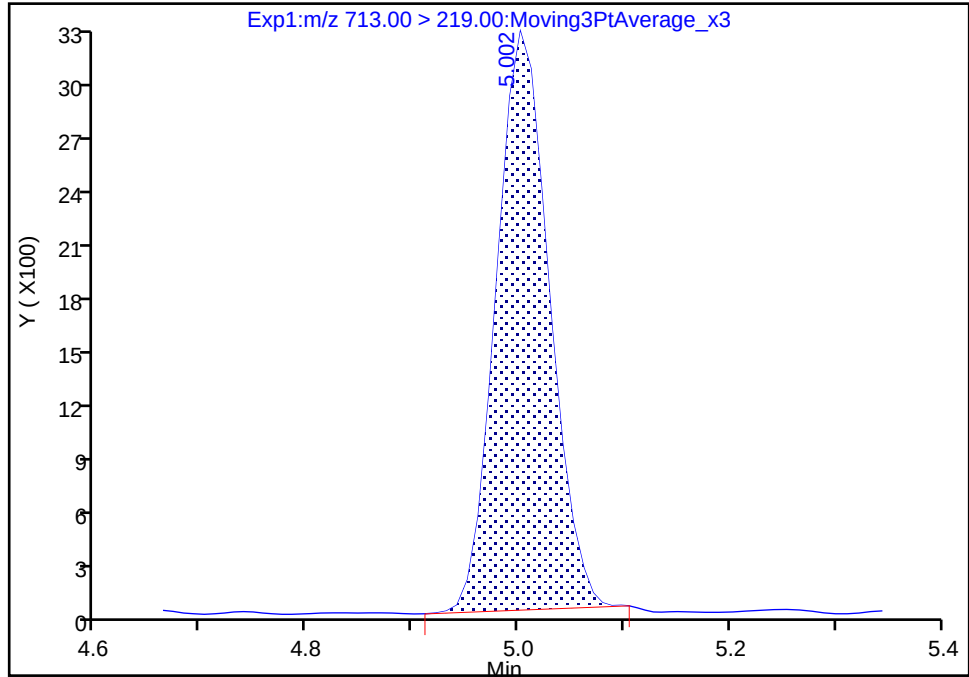
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

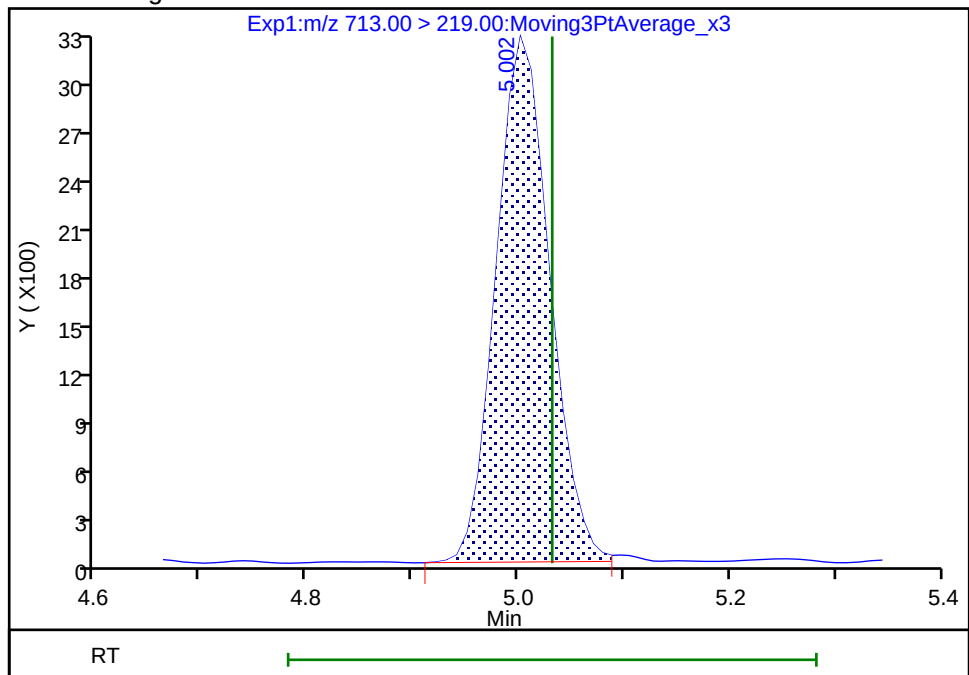
RT: 5.00
Area: 11204
Amount: 0.045357
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 11366
Amount: 0.046108
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:37:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 546 of 97811/21/2022
4:10 PM

Eurofins Burlington

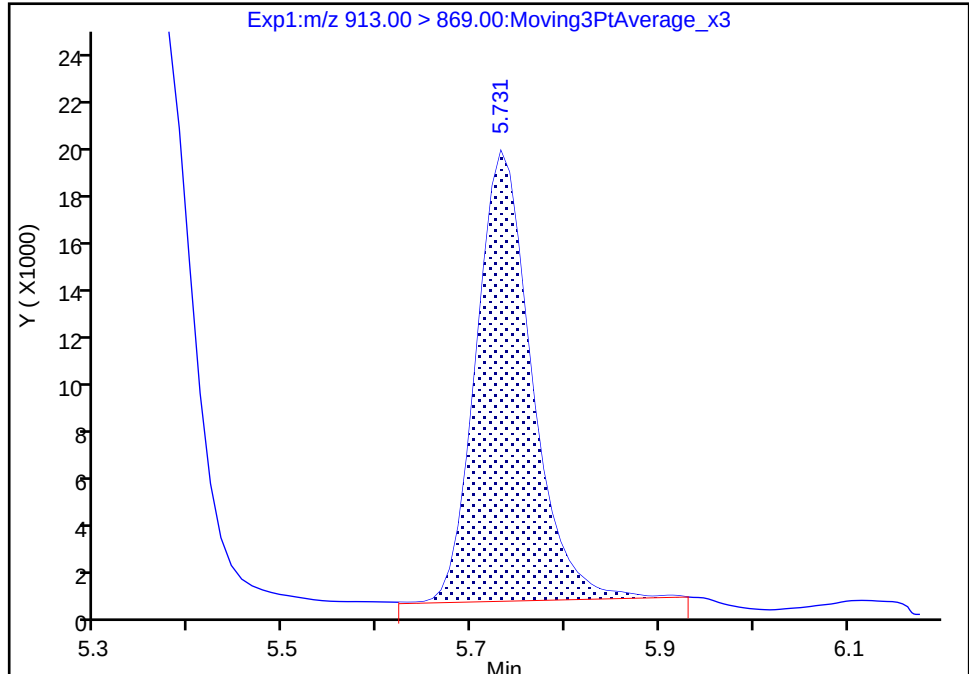
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

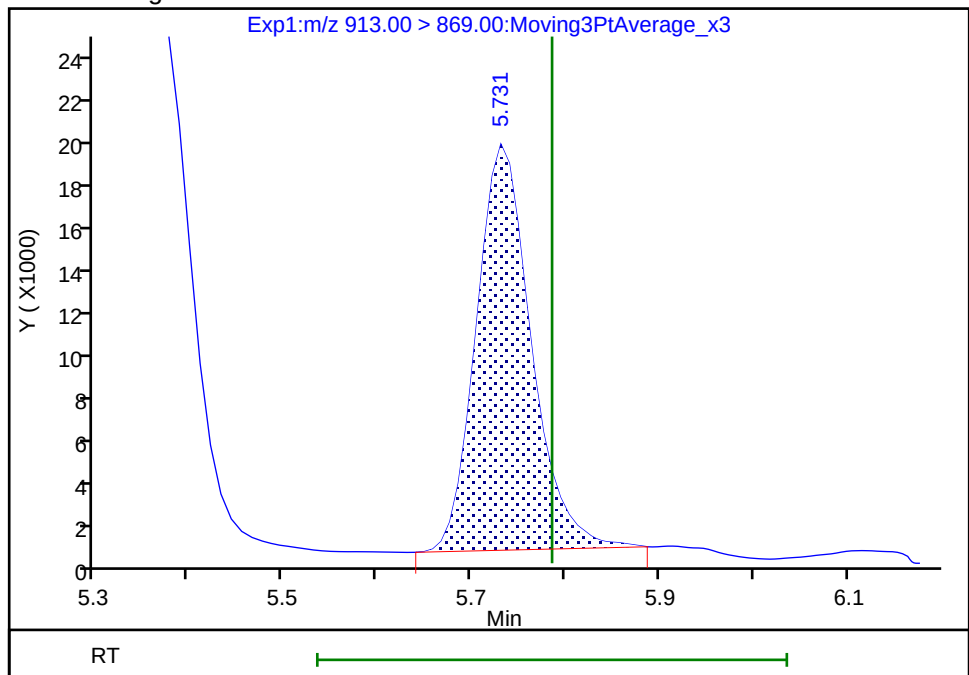
RT: 5.73
Area: 76524
Amount: 0.051667
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 75445
Amount: 0.050939
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:37:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 547 of 978

11/21/2022
4:10 PM

Eurofins Burlington

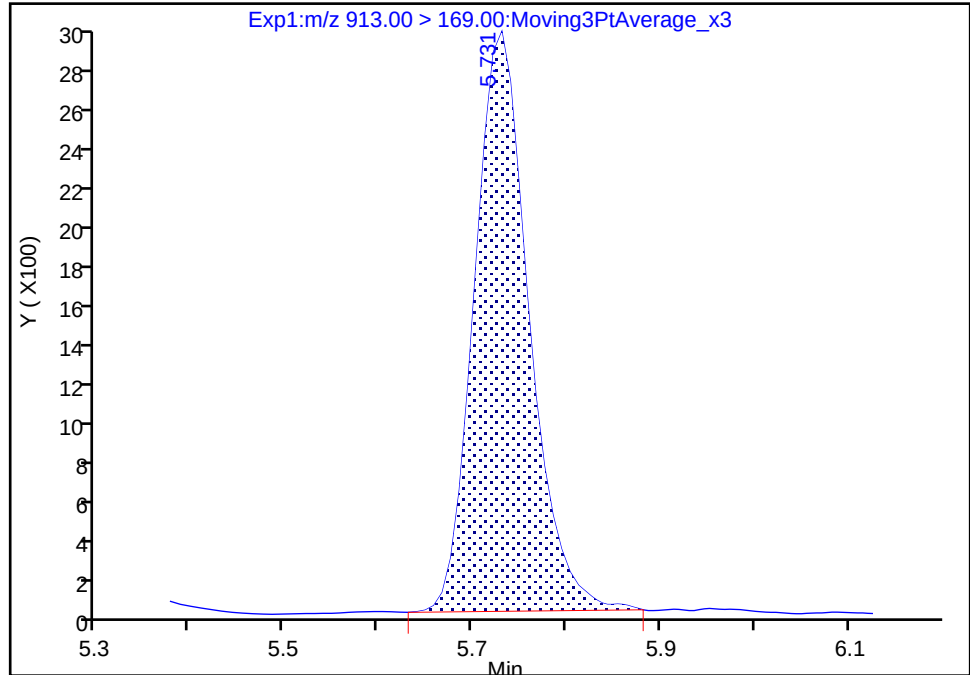
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A05.d
Injection Date: 16-Nov-2022 09:34:49 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

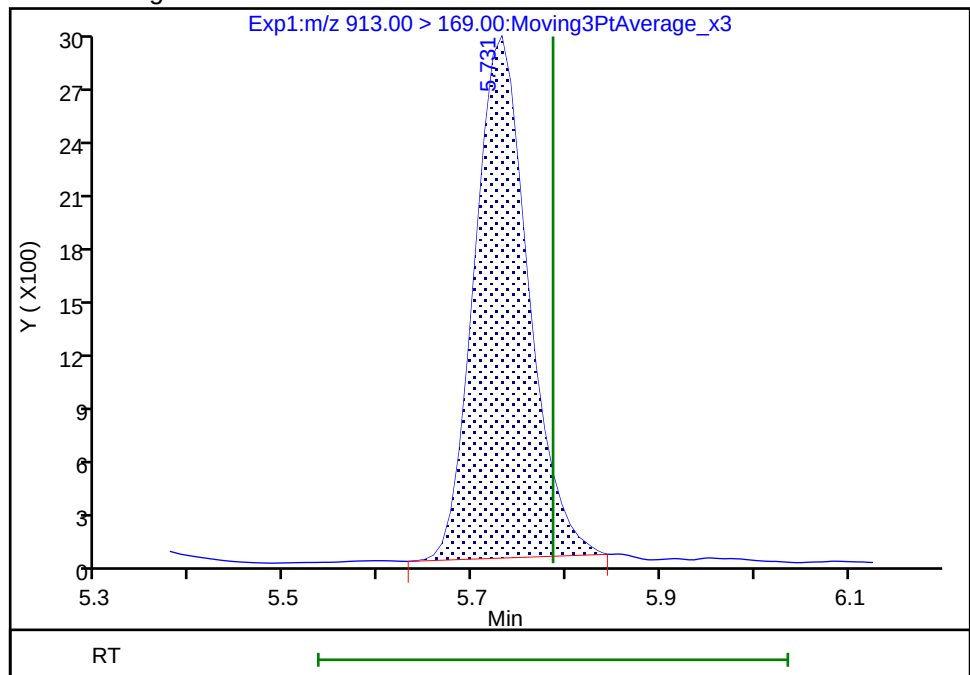
RT: 5.73
Area: 11924
Amount: 0.051667
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 11691
Amount: 0.050939
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 08:37:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 548 of 97811/21/2022
4:10 PM

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: CCV 200-185848/1 Calibration Date: 11/16/2022 20:04

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA221116D01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.012	0.9557		2.36	2.50	-5.6	
Perfluoropentanoic acid (PFPeA)	AveID	1.070	1.082		2.53	2.50	1.1	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.153	1.077		2.06	2.21	-6.6	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.713	2.989		2.57	2.34	10.2	
Perfluorohexanoic acid (PFHxA)	AveID	1.086	1.030		2.37	2.50	-5.1	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.372	1.293		2.21	2.35	-5.8	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.092	1.013		2.32	2.50	-7.2	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.163	1.084		2.12	2.28	-6.8	
Perfluoroheptanoic acid (PFHpA)	AveID	1.114	1.103		2.48	2.50	-1.0	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.558	5.578		2.36	2.36	0.3	
6:2 FTS	AveID	1.822	2.240		2.91	2.37	23.0	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.409	1.374		2.32	2.38	-2.5	
Perfluorooctanoic acid (PFOA)	AveID	1.132	1.085		2.40	2.50	-4.2	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.126		2.15	2.32	-7.3	
Perfluorononanoic acid (PFNA)	AveID	1.050	1.016		2.42	2.50	-3.3	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.438	2.725		2.61	2.33	11.8	
Perfluorononanesulfonic acid (PFNS)	AveID	0.8853	0.8999		2.44	2.40	1.7	
8:2 FTS	AveID	1.239	1.601		3.09	2.40	29.2	
Perfluorodecanoic acid (PFDA)	AveID	1.075	1.071		2.49	2.50	-0.4	
Perfluorooctanesulfonamide (FOSA)	AveID	1.010	0.997		2.47	2.50	-1.3	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9248	0.9022		2.44	2.50	-2.4	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6900	0.7095		2.48	2.41	2.8	
Perfluoroundecanoic acid (PFUnA)	AveID	1.043	0.9802		2.35	2.50	-6.0	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9137	0.8833		2.42	2.50	-3.3	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	3.172	4.192		3.11	2.36	32.2	
Perfluorododecanoic acid (PFDoA)	AveID	1.069	0.9897		2.32	2.50	-7.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.6729	0.9659		3.46	2.41	43.6	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2805	0.2944		2.54	2.42	5.0	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Lab Sample ID: CCV 200-185848/1 Calibration Date: 11/16/2022 20:04
 Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14
 Lab File ID: PA221116D01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9793	0.9264		2.37	2.50	-5.4	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1555	0.1423		2.29	2.50	-8.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9863		2.76	2.50	10.2	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7228	0.8006		2.77	2.50	10.8	
13C4 PFBA	Ave	1.220	1.127		1.15	1.25	-7.6	
13C5 PFPeA	Ave	0.9597	0.8454		1.10	1.25	-11.9	
13C3 PFBS	Ave	0.9722	0.9140		1.09	1.16	-6.0	
M2-4:2 FTS	Ave	0.0881	0.0823		1.09	1.17	-6.7	
13C2 PFHxA	Ave	0.9758	0.9112		1.17	1.25	-6.6	
13C3 HFPO-DA	Ave	0.1832	0.1634		1.12	1.25	-10.8	
18O2 PFHxS	Ave	0.6942	0.6608		1.13	1.18	-4.8	50.0
13C4 PFHpA	Ave	0.9588	0.8925		1.16	1.25	-6.9	50.0
M2-6:2 FTS	Ave	0.1186	0.1124		1.13	1.19	-5.2	
13C4 PFOA	Ave	1.025	1.026		1.25	1.25	0.0	50.0
13C4 PFOS	Ave	0.4574	0.4491		1.17	1.20	-1.8	50.0
13C5 PFNA	Ave	1.009	1.015		1.26	1.25	0.6	50.0
13C2 PFDA	Ave	0.9801	1.035		1.32	1.25	5.6	
M2-8:2 FTS	Ave	0.1402	0.1326		1.13	1.20	-5.4	
13C8 FOSA	Ave	0.7983	0.8209		1.29	1.25	2.8	
d3-NMeFOSAA	Ave	0.1380	0.2126		1.93	1.25	54.1	
13C2 PFUnA	Ave	0.8025	0.9463		1.47	1.25	17.9	
d5-NEtFOSAA	Ave	0.1370	0.2056		1.88	1.25	50.1	
13C2 PFDoA	Ave	0.7827	0.9857		1.57	1.25	25.9	
13C2 PFTeDA	Ave	0.6687	0.8226		1.54	1.25	23.0	
13C2 PFHxDA	Ave	0.7383	1.023		1.73	1.25	38.6	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2022 20:04:36 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053360-001 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:12 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 13:39:56

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	2.067	2.068	-0.001	0.600	2647668	1.15		92.4	7532	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.004	5060611	2.36		94.4	400	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.689	1987016	1.10		88.1	3094	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.373	0.013	1.006	4298991	2.53		101	109	M
D 47 13C3 PFBS										
301.90 > 80.00	2.400	2.386	0.014	0.696	1997761	1.09		94.0	322738	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.000	4089565	2.06	Target=2.19	93.4	3612	
298.90 > 99.00	2.400	2.400	0.0	1.000	1868689		2.19(1.09-3.28)		1174	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	1079547	2.57		110	2501	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	180562	1.09		93.3	196	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.791	2141674	1.17		93.4	4845	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	4411808	2.37	Target=13.67	94.9	776	M
313.00 > 119.00	2.725	2.725	0.0	1.000	313273		14.08(6.83-20.50)		424	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.725	0.012	0.887	3765779	2.21	Target=3.00	94.2	3631	
349.00 > 99.00	2.737	2.725	0.012	0.887	1246596		3.02(1.50-4.51)		1523	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.823	0.012	0.822	384116	1.12		89.2	1902	

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	2.823	0.012	1.000	778512	2.32		92.8	1523	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.087	3.088	-0.001	0.896	1469097	1.13		95.2	4275	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.087	3.088	-0.001	1.000	3064882	2.12	Target=3.60	93.2	1406	M
399.00 > 99.00	3.087	3.088	-0.001	1.000	862607		3.55(1.80-5.40)		833	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.088	0.010	0.899	2097543	1.16		93.1	4846	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.098	3.088	0.010	1.000	4628845	2.48	Target=3.76	99.0	836	M
363.00 > 169.00	3.098	3.088	0.010	1.000	1113083		4.16(1.88-5.65)		1702	
77 DONA										M
377.00 > 251.00	3.132	3.121	0.011	0.832	11092520	2.36	Target=3.10	100	2713	M
377.00 > 85.00	3.132	3.121	0.011	0.832	3380181		3.28(1.55-4.65)		1777	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.438	3.430	0.008	0.914	2762341	2.32	Target=5.32	97.5	2329	M
449.00 > 99.00	3.438	3.430	0.008	0.914	523555		5.28(2.66-7.97)		2108	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.430	0.008	0.997	250893	1.13		94.8	743	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.438	3.430	0.008	1.000	1121626	2.91		123	4005	
D 14 13C4 PFOA										
417.00 > 372.00	3.446	3.439	0.007	1.000	2412013	1.25		100	6939	
* 62 13C2 PFOA										
415.00 > 370.00	3.446	3.439	0.007		2350263	1.25			5566	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.455	3.439	0.016	1.003	5232618	2.40	Target=2.73	95.8	337	M
413.00 > 169.00	3.446	3.439	0.007	1.000	1844915		2.84(1.37-4.10)		2253	M
D 18 13C4 PFOS										
503.00 > 80.00	3.763	3.764	-0.001	1.092	1009168	1.17		98.2	2142	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.763	3.764	-0.001	1.000	2205578	2.15	Target=5.09	92.7	354	M
499.00 > 99.00	3.763	3.764	-0.001	1.000	463996		4.75(2.55-7.64)		364	M
D 19 13C5 PFNA										
468.00 > 423.00	3.782	3.783	-0.001	1.097	2384882	1.26		101	6609	
20 Perfluorononanoic acid										
463.00 > 419.00	3.782	3.783	-0.001	1.000	4843778	2.42	Target=7.76	96.7	1108	
463.00 > 169.00	3.782	3.783	-0.001	1.000	558562		8.67(3.88-11.63)		2788	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.927	3.928	-0.001	1.044	5362329	2.60		112	8788	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.061	4.061	0.0	1.079	1823856	2.44	Target=2.67	102	4621	M
549.00 > 99.00	4.061	4.061	0.0	1.079	682564		2.67(1.34-4.01)		1792	M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.093	0.0	1.188	2431487	1.32		106	3109	

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	4.093	4.093	0.0	1.000	5209770	2.49	Target=9.83	99.6	2176	
513.00 > 169.00	4.093	4.093	0.0	1.000	514858		10.12(4.91-14.74)		1000	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.188	298516	1.13		94.6	917	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	955705	3.09		129	1251	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1929396	1.29		103	2808	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.138	0.012	1.000	3848176	2.47		98.7	2262	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.227	499779	1.93		154	361	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.238	4.238	0.0	1.002	901789	2.44		97.6	673	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	1443913	2.48	Target=2.59	103	1644	M
599.00 > 99.00	4.331	4.331	0.0	1.151	551452		2.62(1.30-3.89)		2042	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.365	-0.012	1.263	2224109	1.47		118	4366	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.353	4.365	-0.012	1.000	4360301	2.35	Target=9.68	94.0	972	M
563.00 > 169.00	4.353	4.365	-0.012	1.000	436300		9.99(4.84-14.53)		1678	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	483154	1.88		150	924	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.376	4.376	0.0	1.003	853567	2.42		96.7	665	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.465	-0.011	1.184	8336721	3.11		132	8907	
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.602	0.0	1.335	2316694	1.57		126	1940	M
37 Perfluorododecanoic acid										
613.00 > 569.00	4.602	4.602	0.0	1.000	4585578	2.32	Target=6.96	92.6	290	M
613.00 > 169.00	4.602	4.602	0.0	1.000	641920		7.14(3.48-10.43)		1634	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.622	-0.010	1.127	580278	3.46		144	1709	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.785	-0.009	1.269	601730	2.54	Target=0.52	105	2655	M
699.00 > 99.00	4.776	4.785	-0.009	1.269	1198035		0.50(0.26-0.78)		3137	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.813	4.825	-0.012	1.046	4292255	2.36	Target=4.85	94.6	282	M
663.00 > 169.00	4.813	4.825	-0.012	1.046	793195		5.41(2.42-7.27)		1195	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.454	1933211	1.54		123	5999	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.032	-0.020	1.000	550289	2.29	Target=0.99	91.5	1280	M
713.00 > 219.00	5.012	5.032	-0.020	1.000	572357		0.96(0.49-1.48)		1307	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	5.378	5.400	-0.022	1.560	2404252	1.73		139	6277	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.411	-0.033	1.000	4742512	2.76	Target=4.99	110	390	M
813.00 > 169.00	5.378	5.411	-0.033	1.000	773217		6.13(2.49-7.48)		2540	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.786	-0.055	1.066	3849595	2.77	Target=4.90	111	272	M
913.00 > 169.00	5.722	5.786	-0.064	1.064	622946		6.18(2.45-7.35)		555	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00029

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d

Injection Date: 16-Nov-2022 20:04:36

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

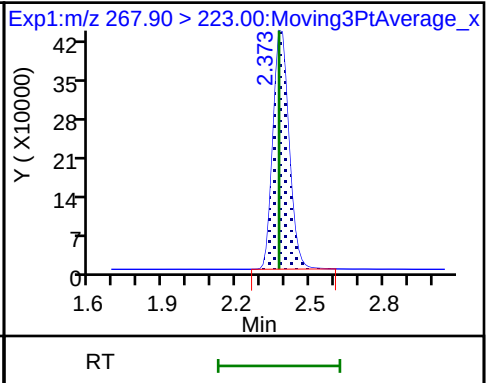
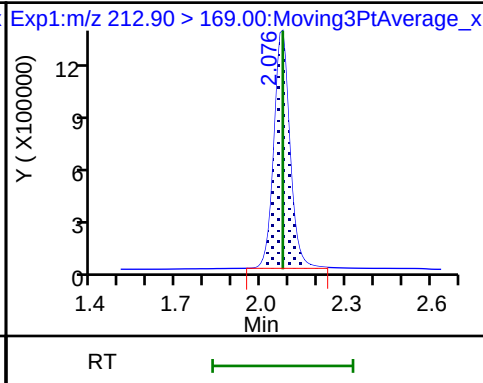
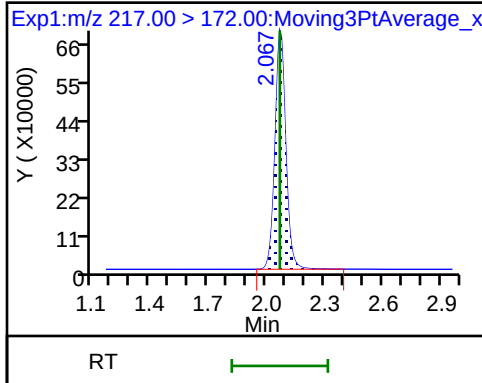
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

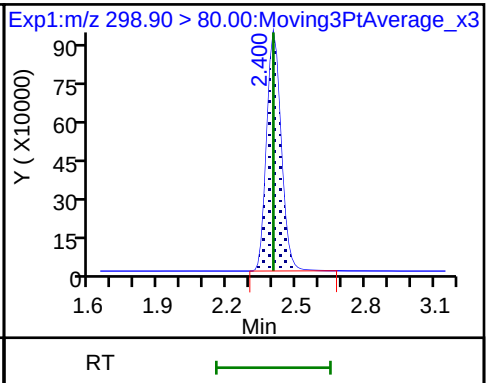
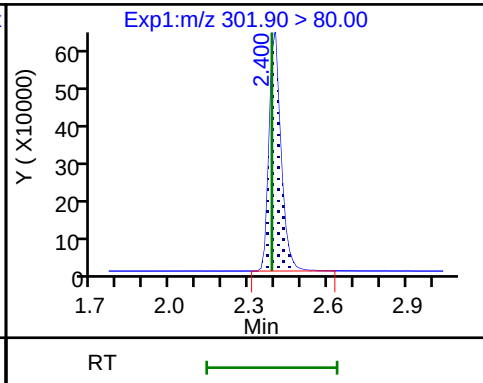
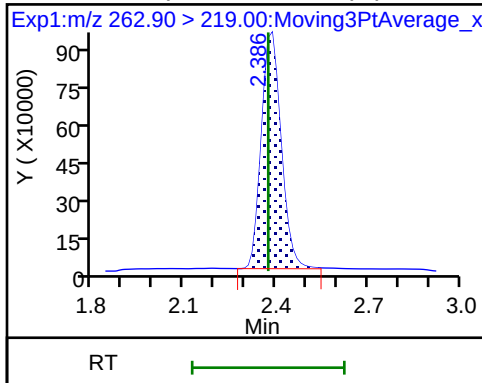
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

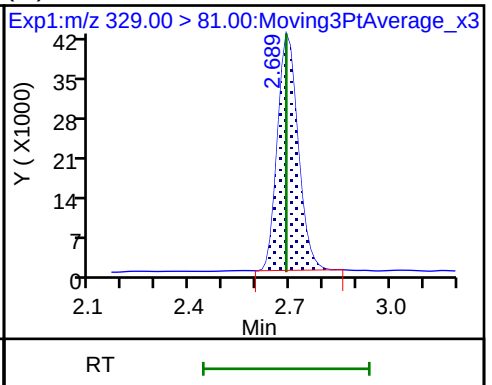
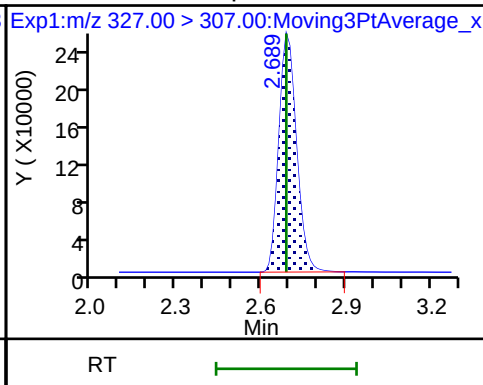
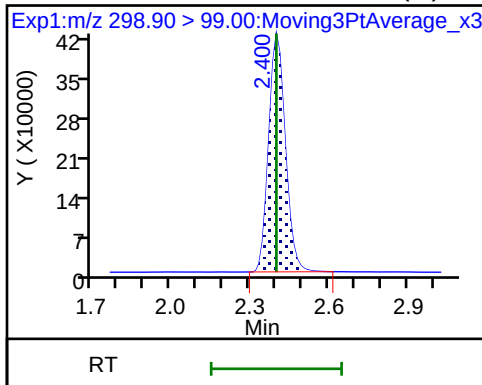
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

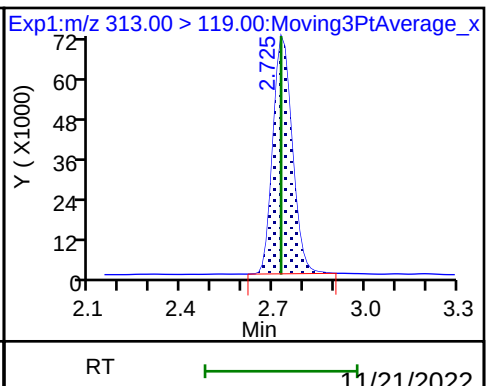
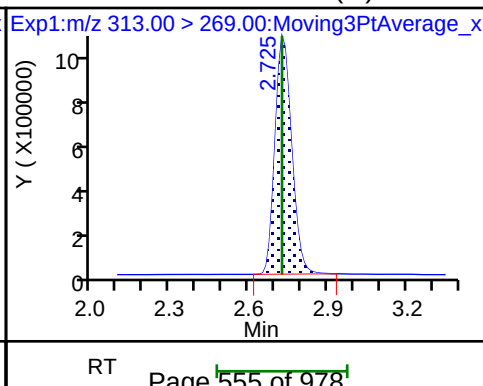
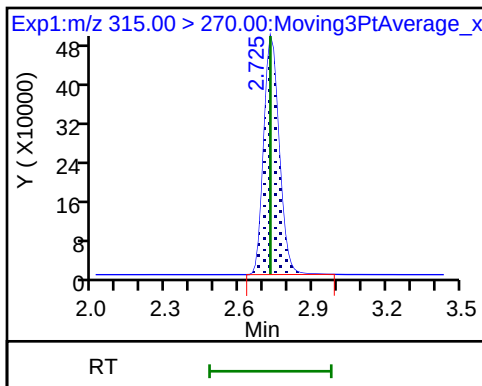
61 1H,1H,2H,2H-perfluorohexanesulfo (M) 50 M2-4:2 FTS

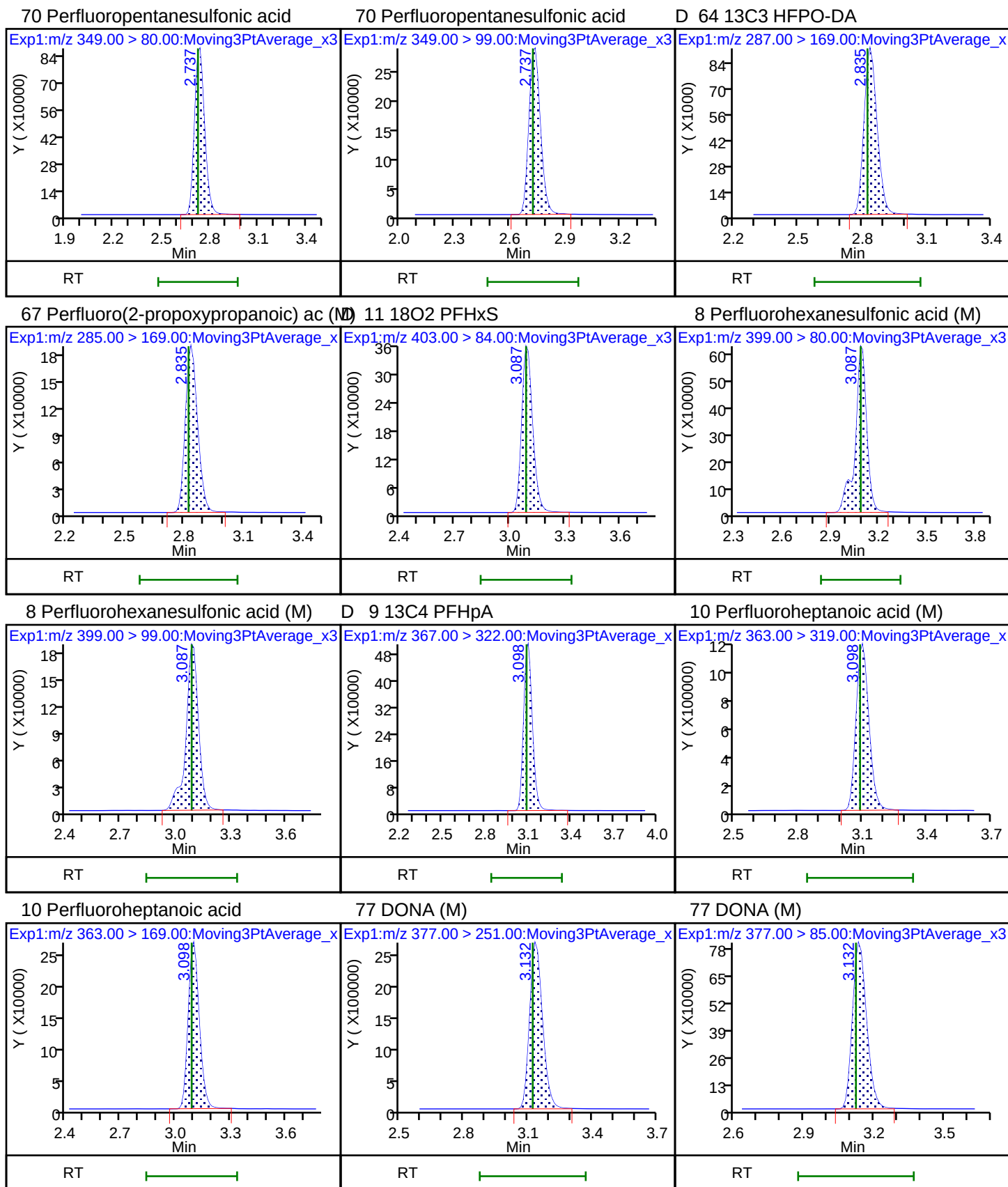


D 7 13C2 PFHxA

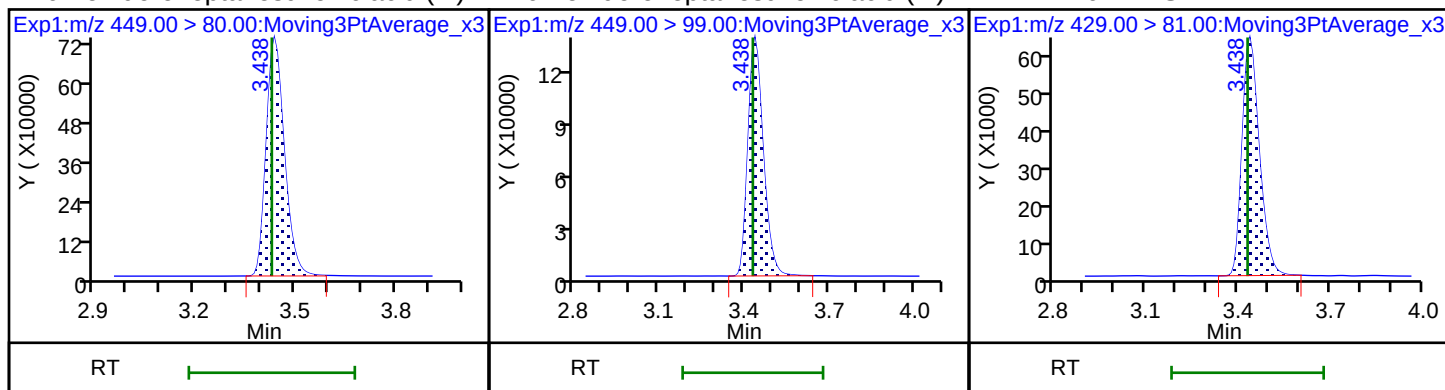
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

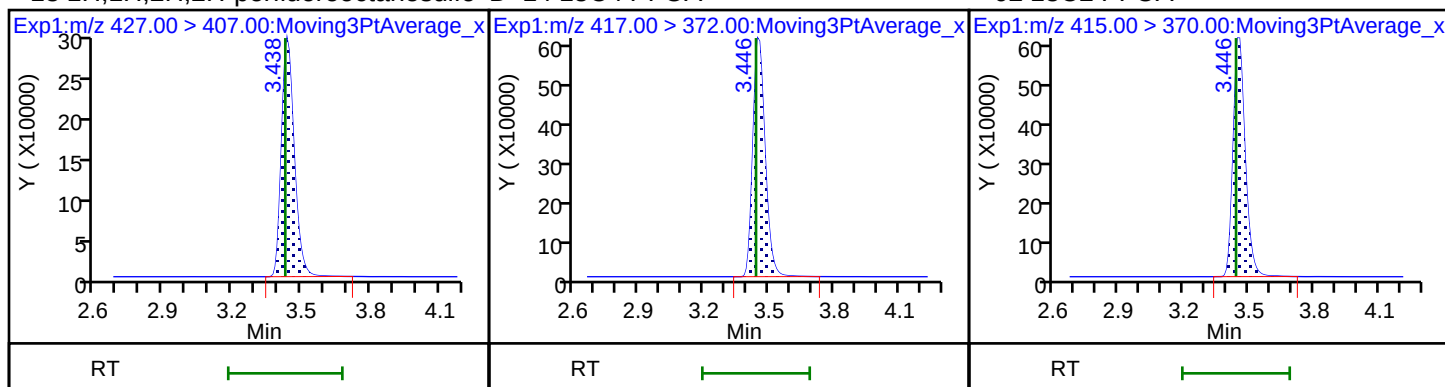




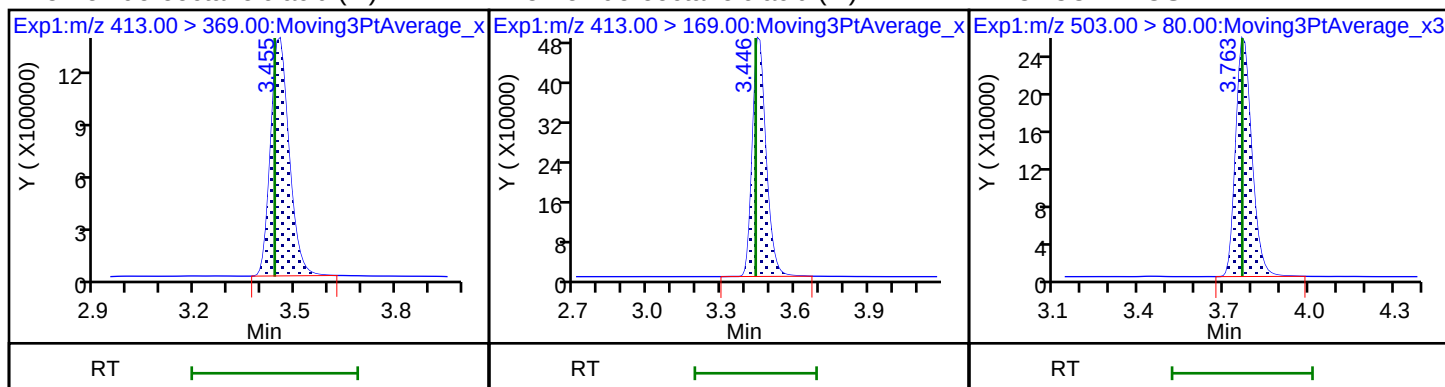
16 Perfluoroheptanesulfonic acid (M) 16 Perfluoroheptanesulfonic acid (M) D 12 M2-6:2 FTS



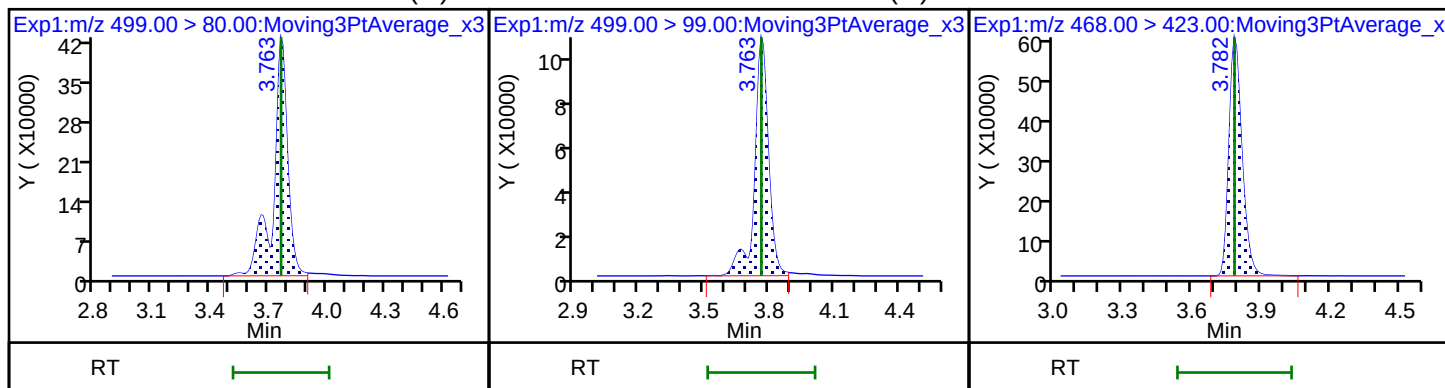
13 1H,1H,2H,2H-perfluorooctanesulfo D 14 13C4 PFOA * 62 13C2 PFOA

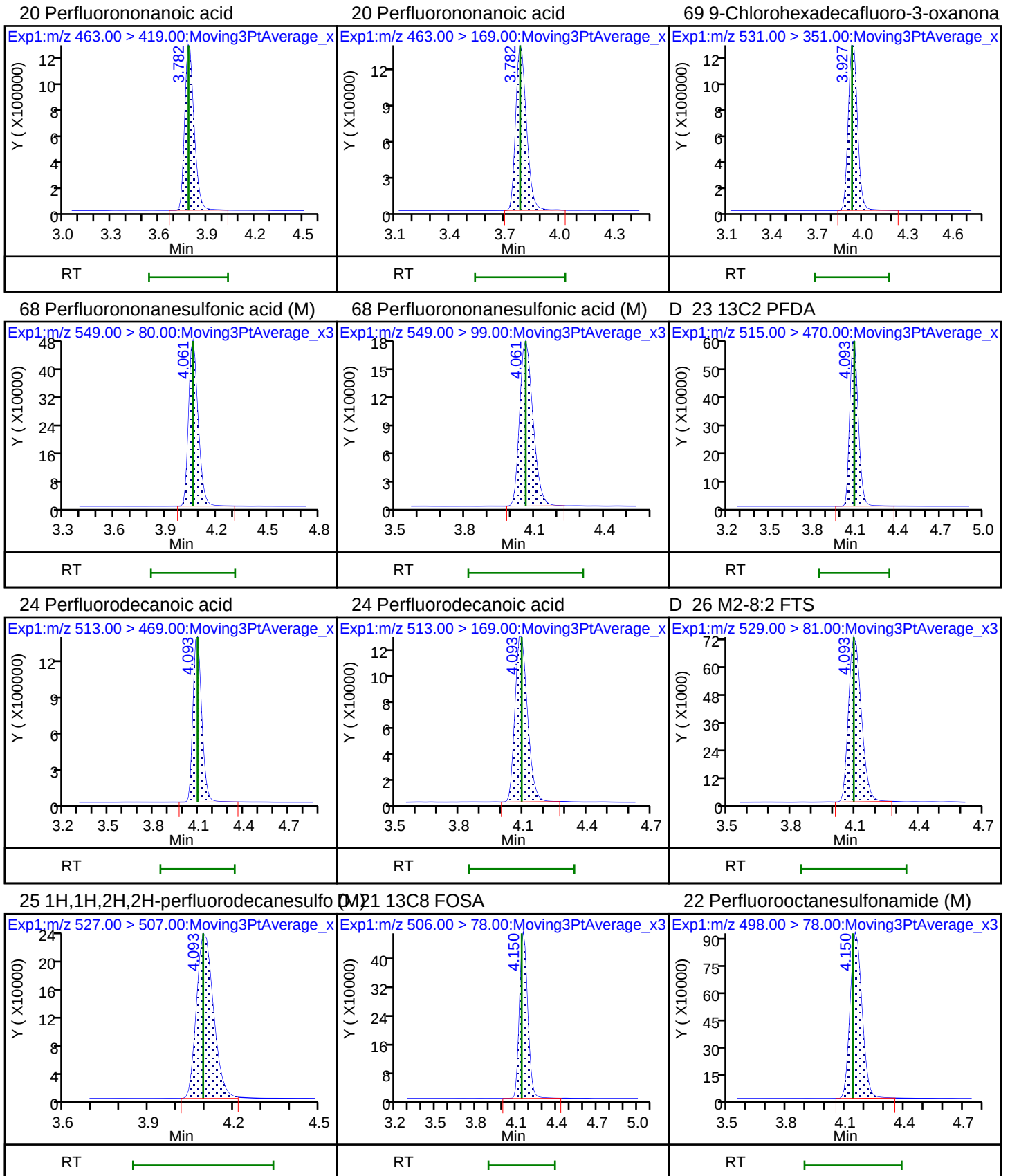


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA

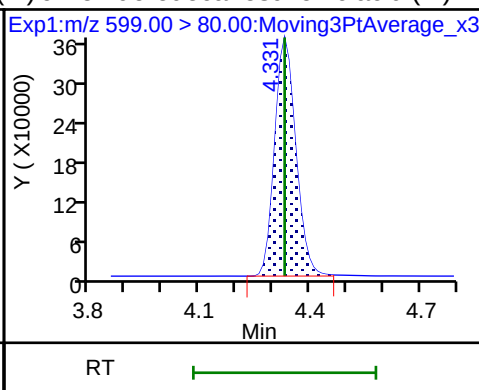
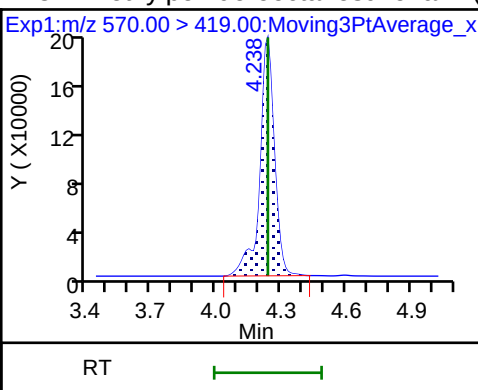
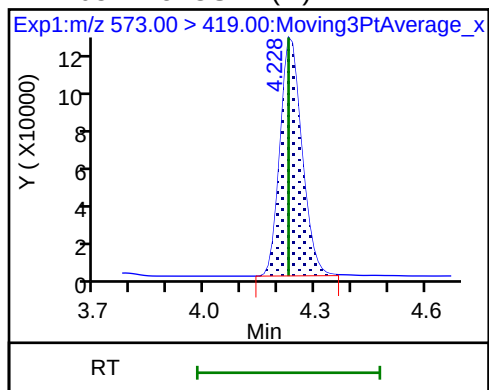




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

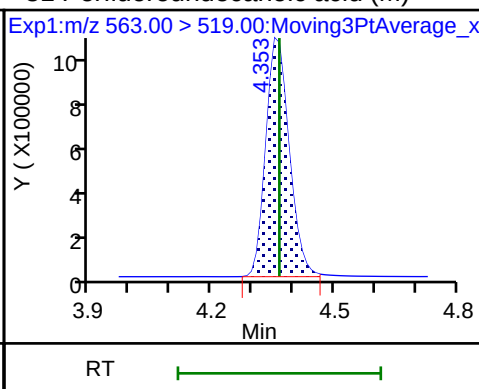
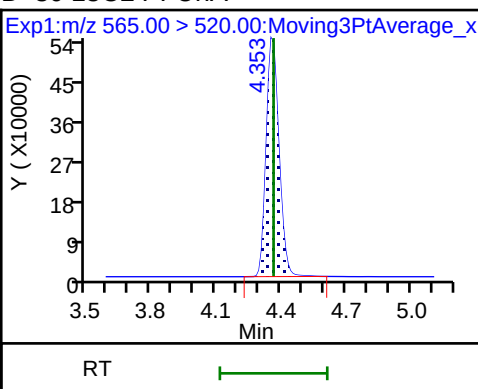
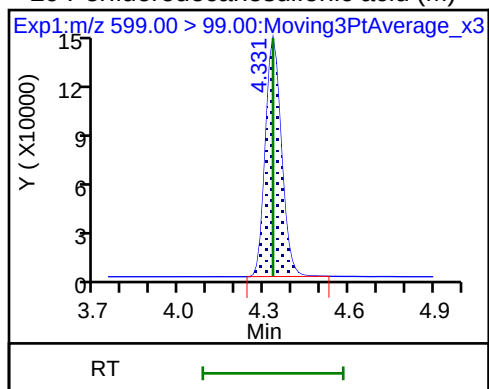
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUa

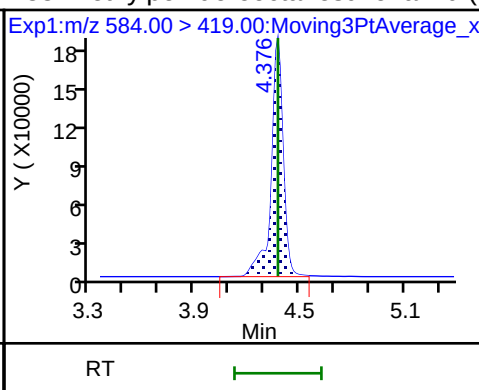
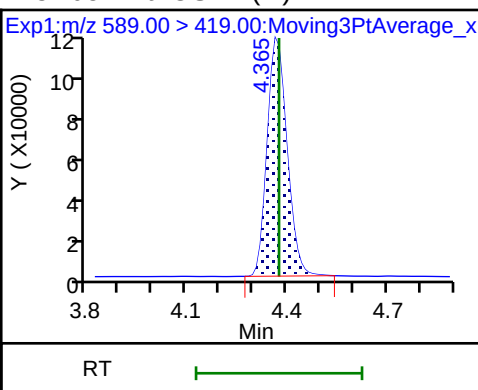
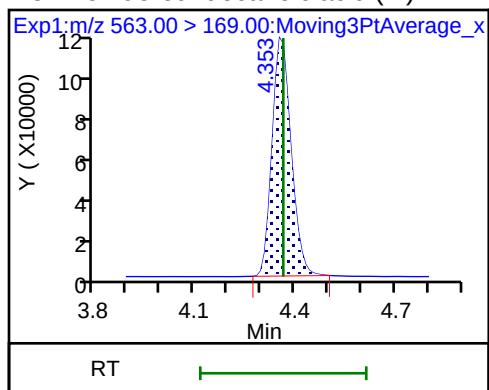
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA (M)

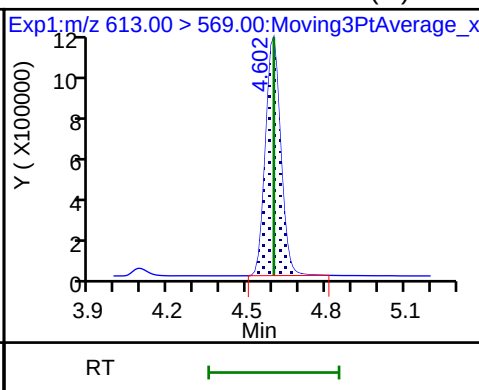
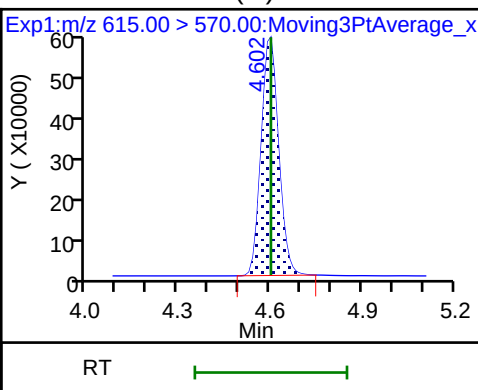
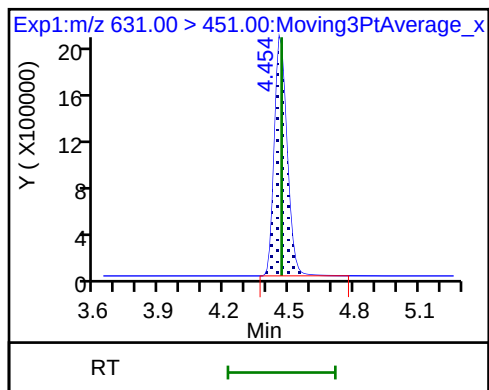
33 N-ethylperfluorooctanesulfonamid (M)

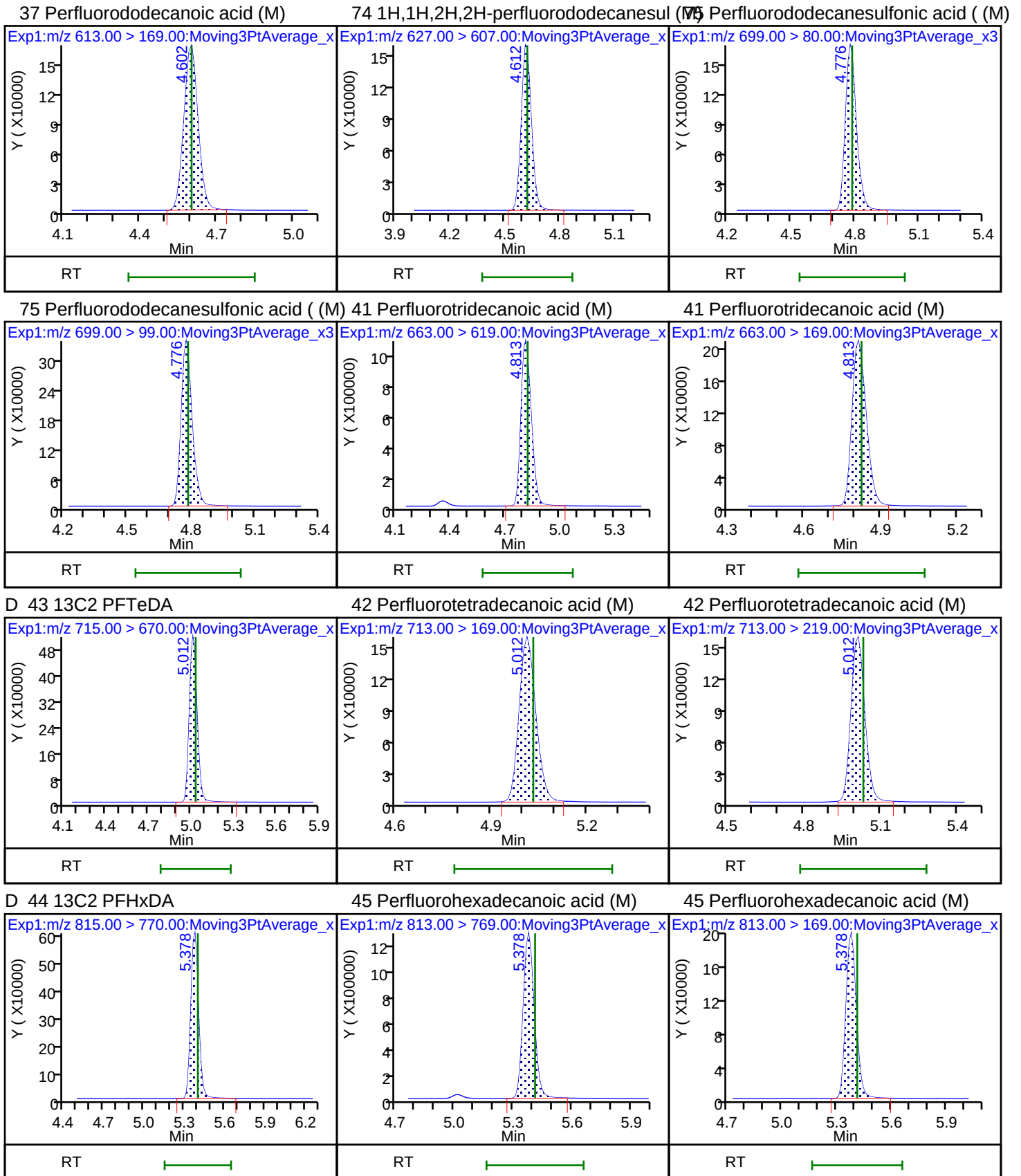


66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDa (M)

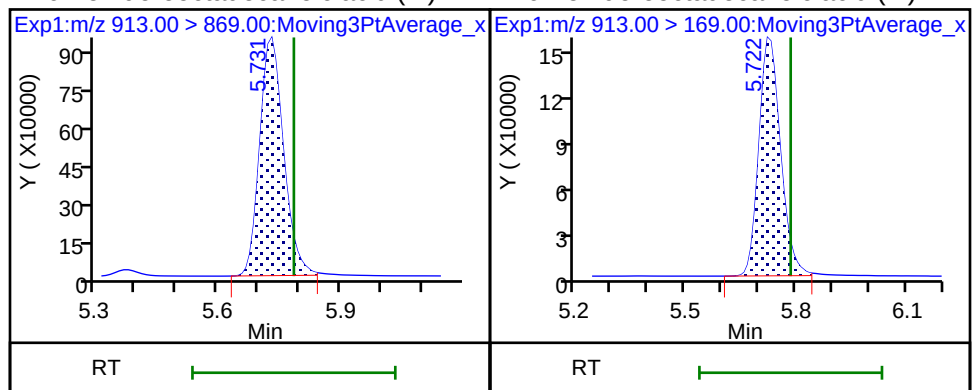
37 Perfluorododecanoic acid (M)





46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

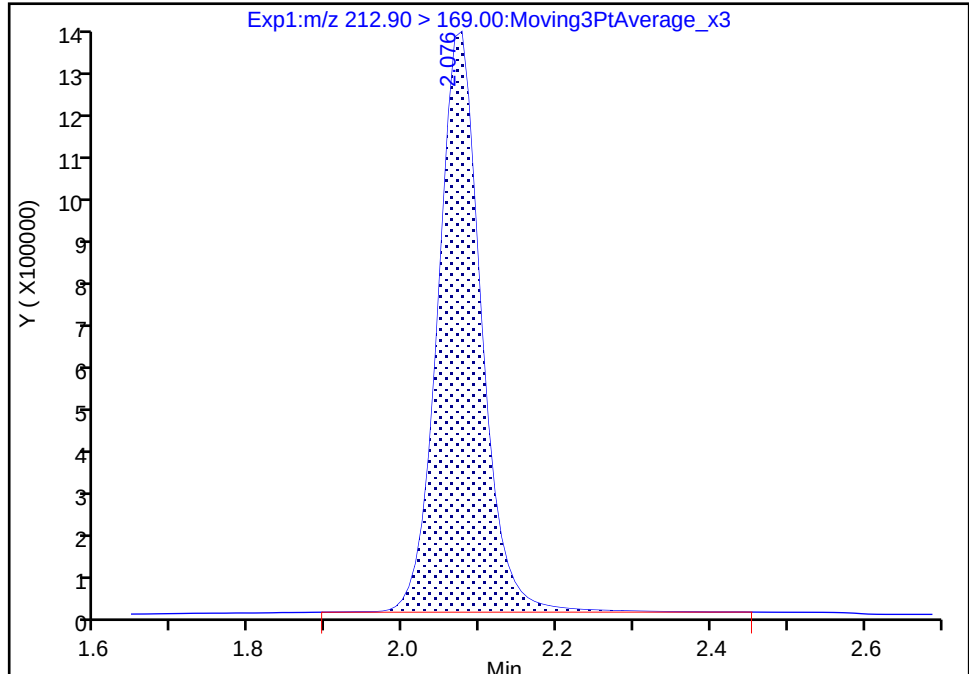
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

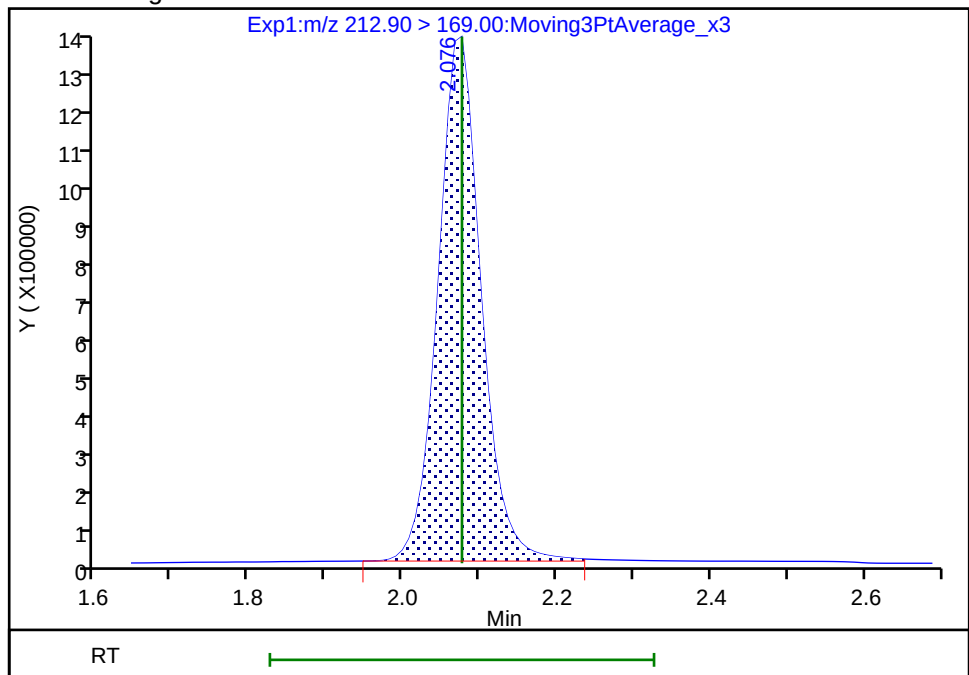
RT: 2.08
Area: 5088661
Amount: 2.372884
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5060611
Amount: 2.359804
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

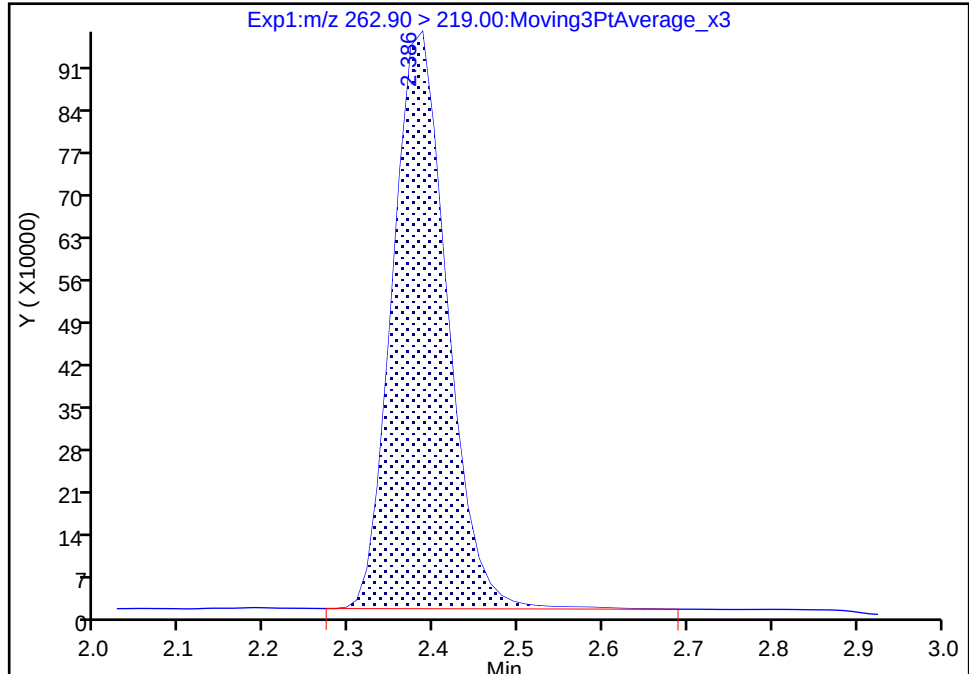
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

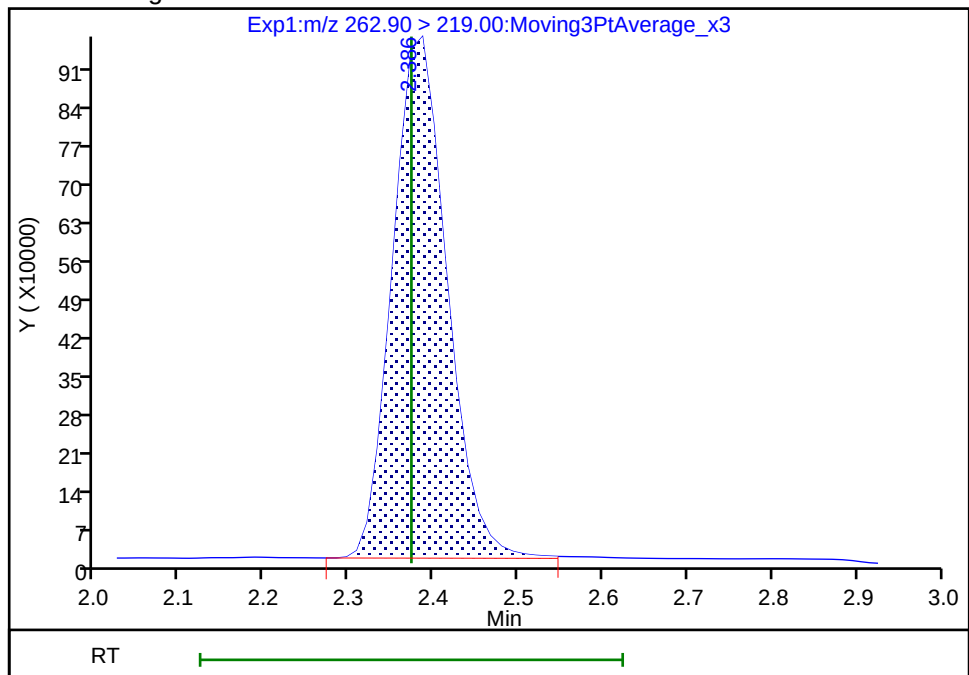
RT: 2.39
Area: 4312334
Amount: 2.535680
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 4298991
Amount: 2.527834
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

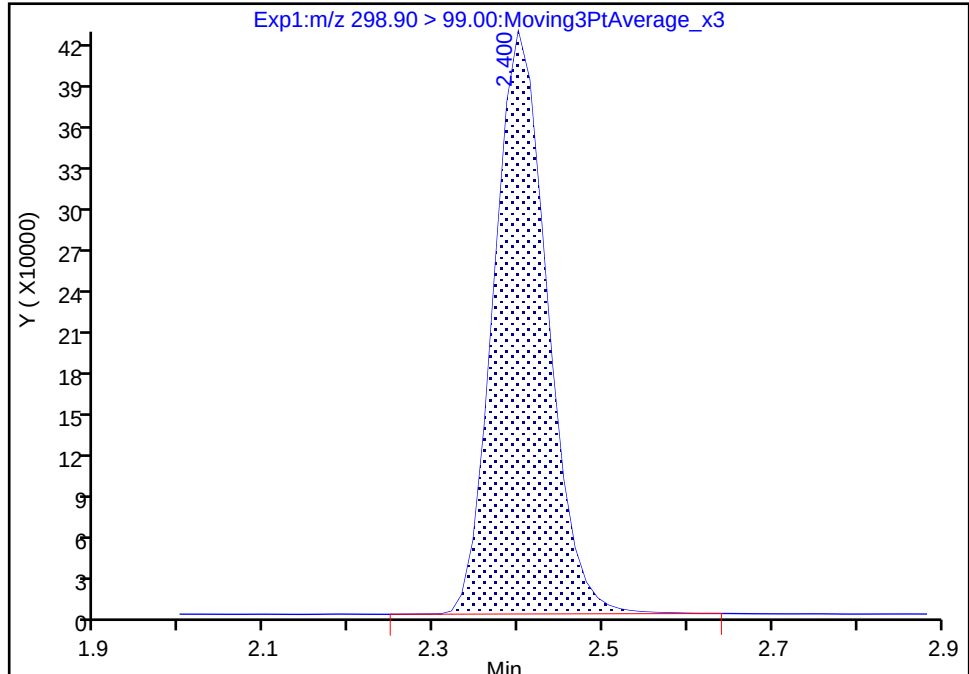
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

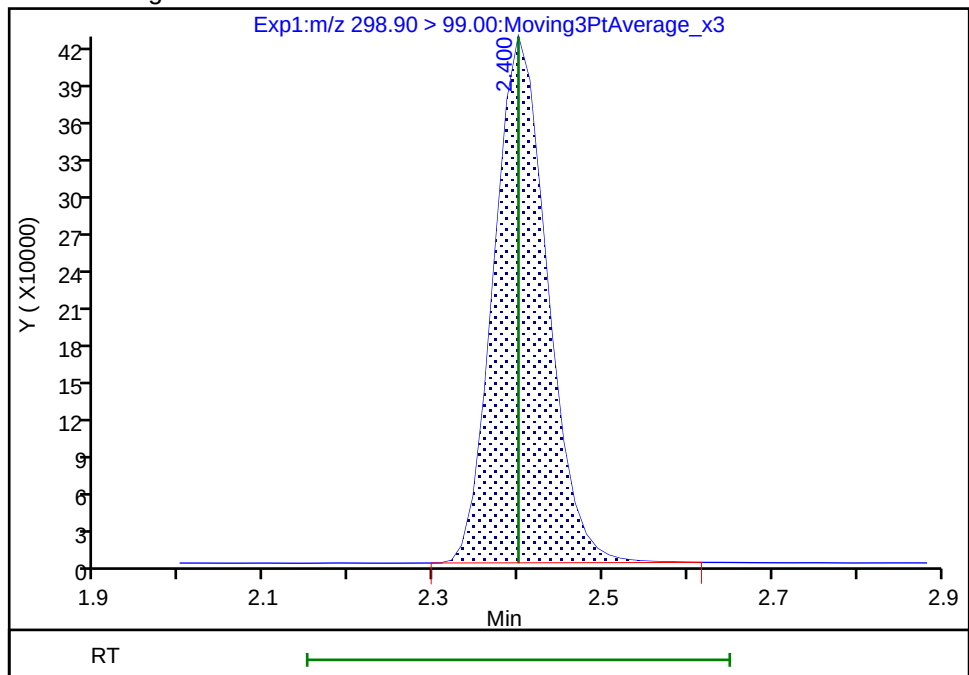
RT: 2.40
Area: 1870108
Amount: 2.064268
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1868689
Amount: 2.064268
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

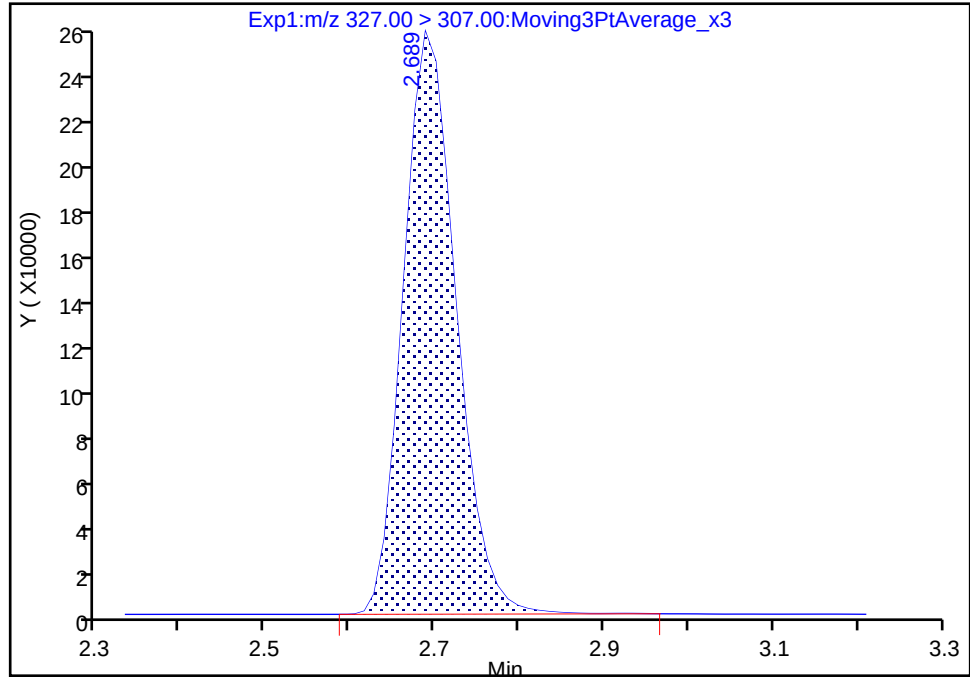
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

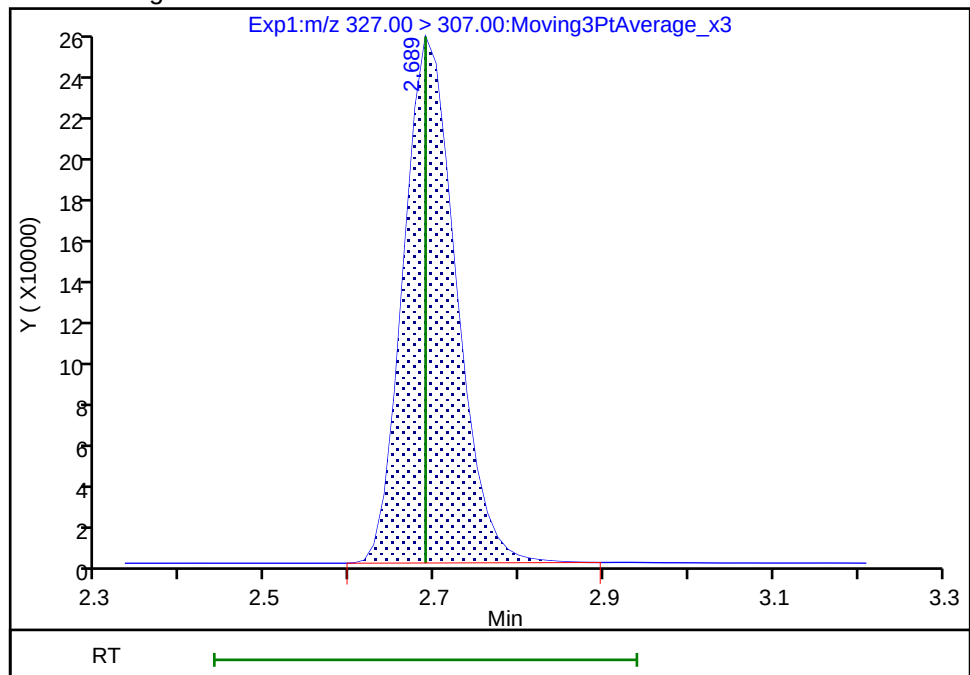
RT: 2.69
Area: 1081351
Amount: 2.577261
Amount Units: ng/ml

Processing Integration Results



RT: 2.69
Area: 1079547
Amount: 2.572961
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

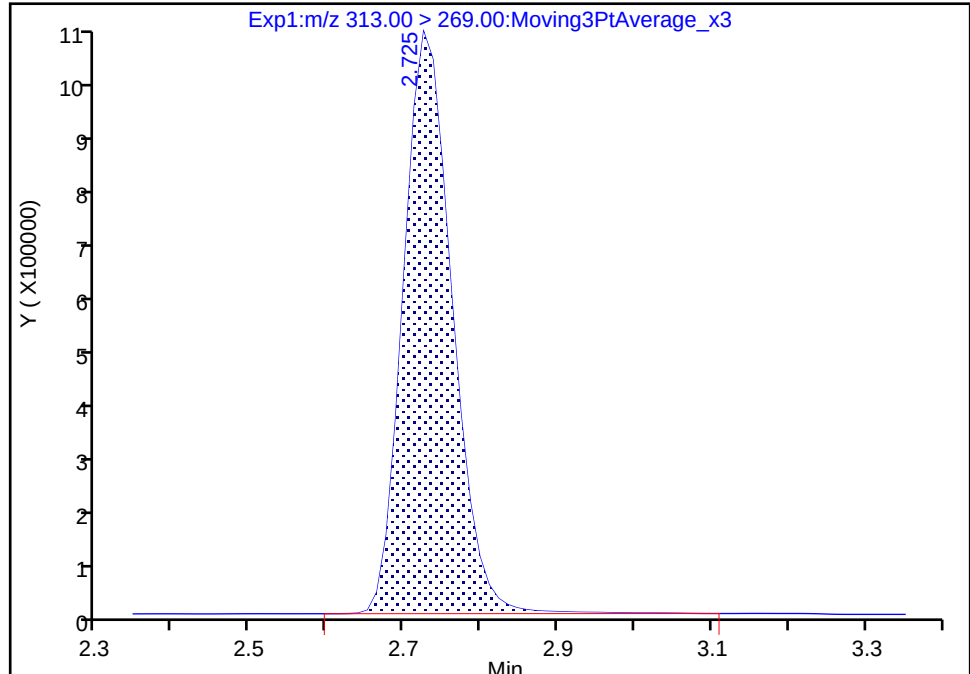
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

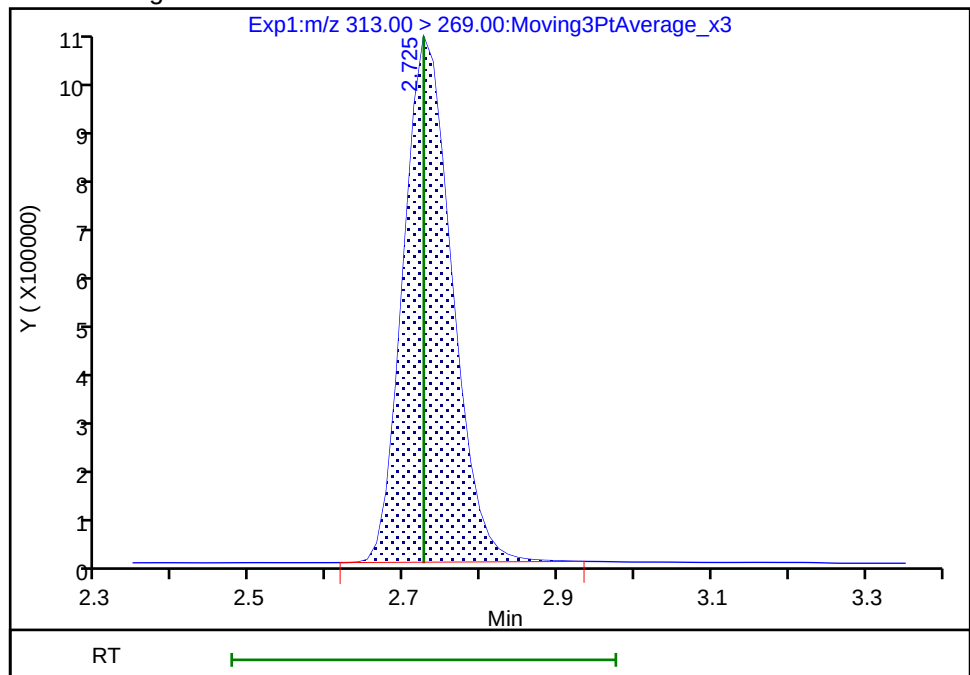
RT: 2.73
Area: 4443144
Amount: 2.388629
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 4411808
Amount: 2.371783
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:34:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

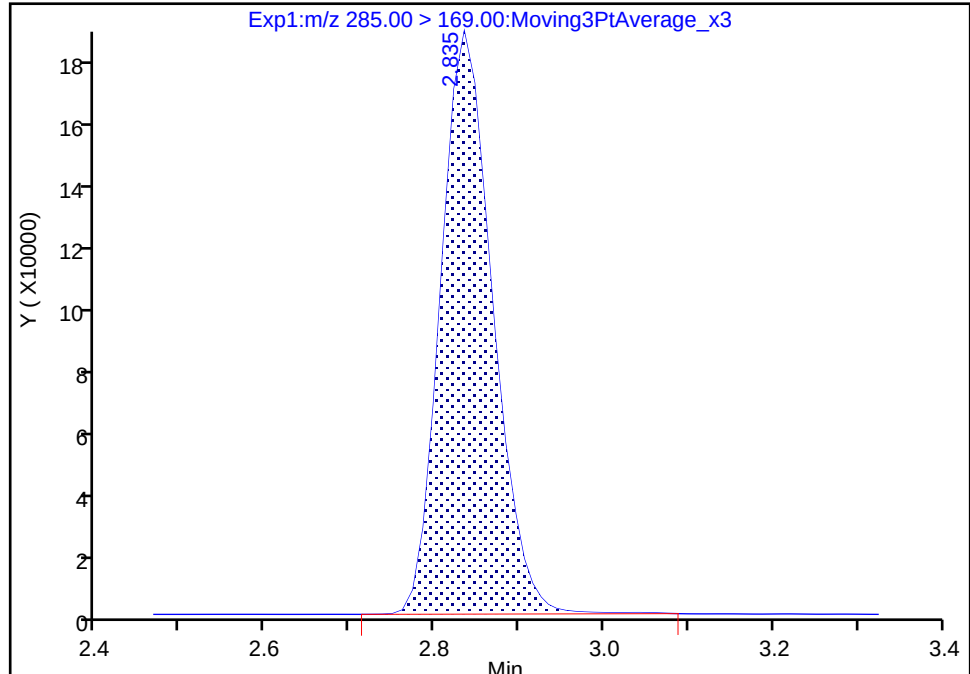
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

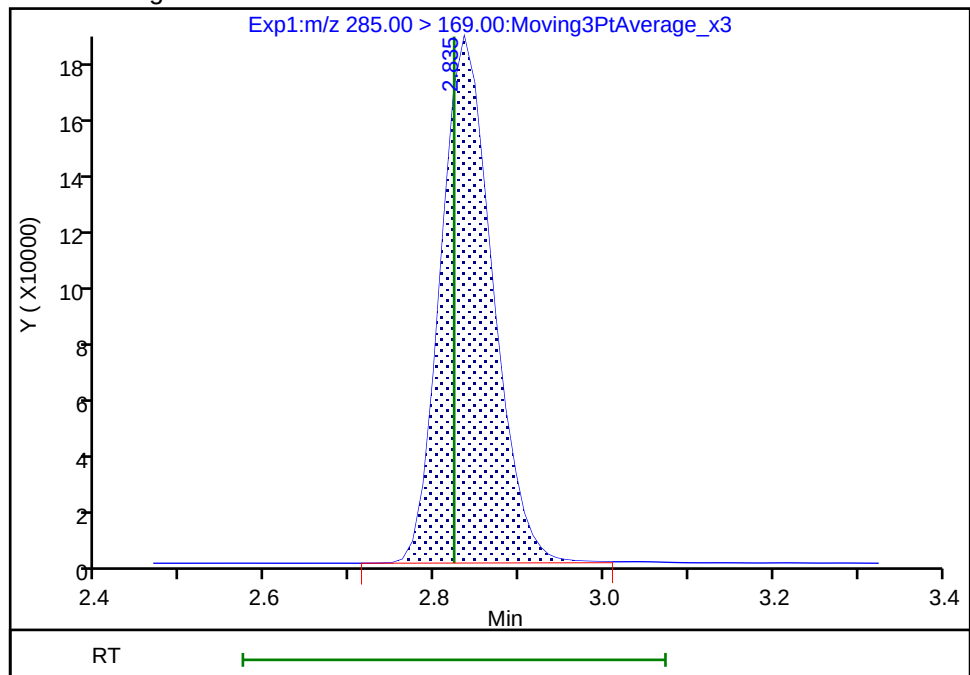
RT: 2.83
Area: 779672
Amount: 2.322747
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 778512
Amount: 2.319291
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:34:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

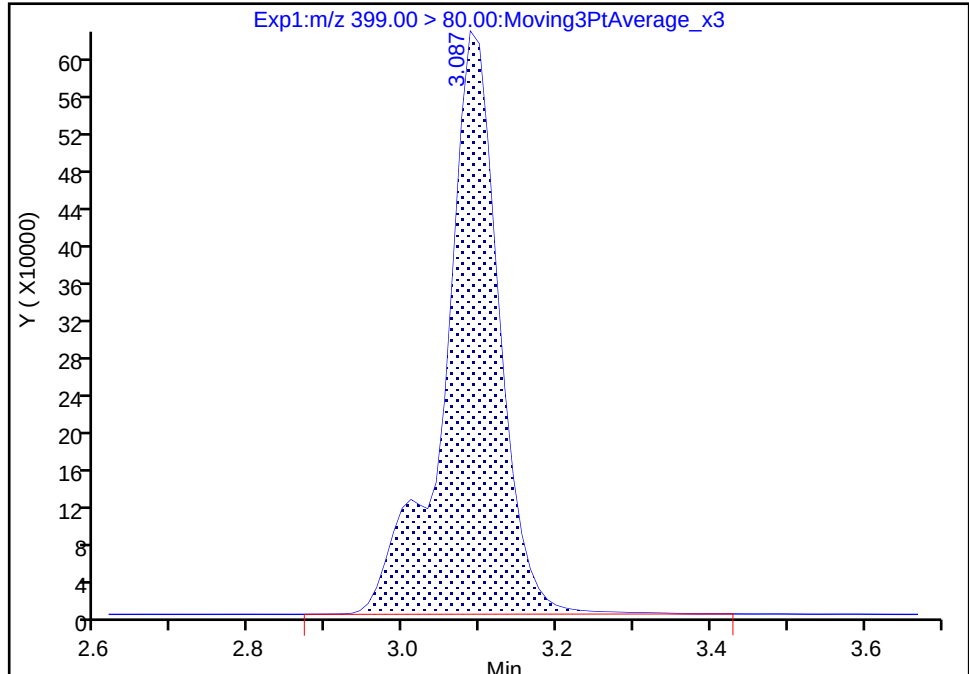
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

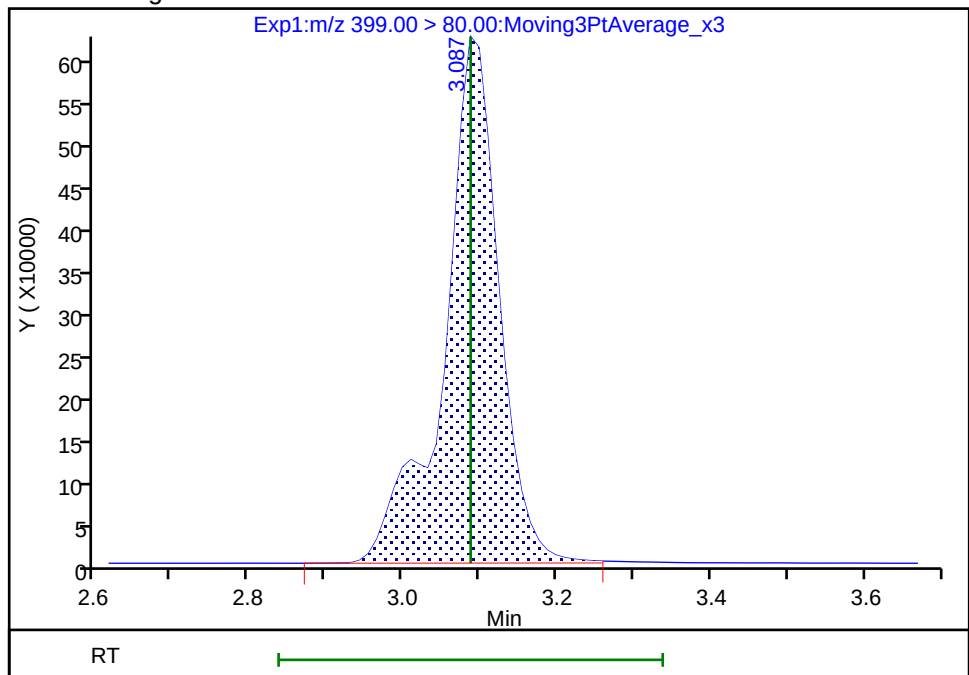
RT: 3.09
Area: 3072671
Amount: 2.126141
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 3064882
Amount: 2.120751
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:34:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

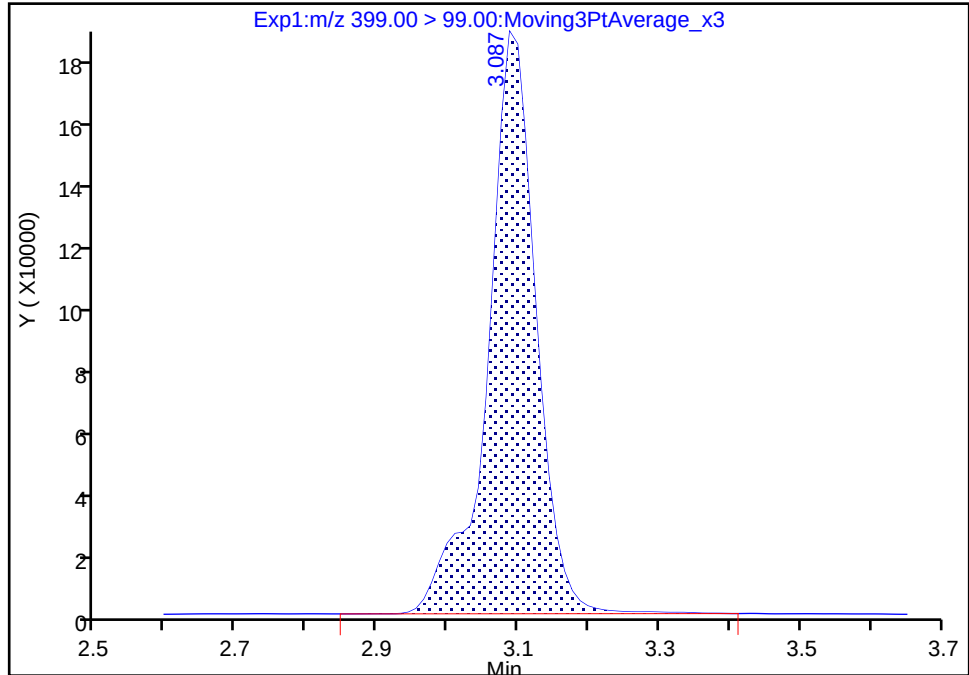
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

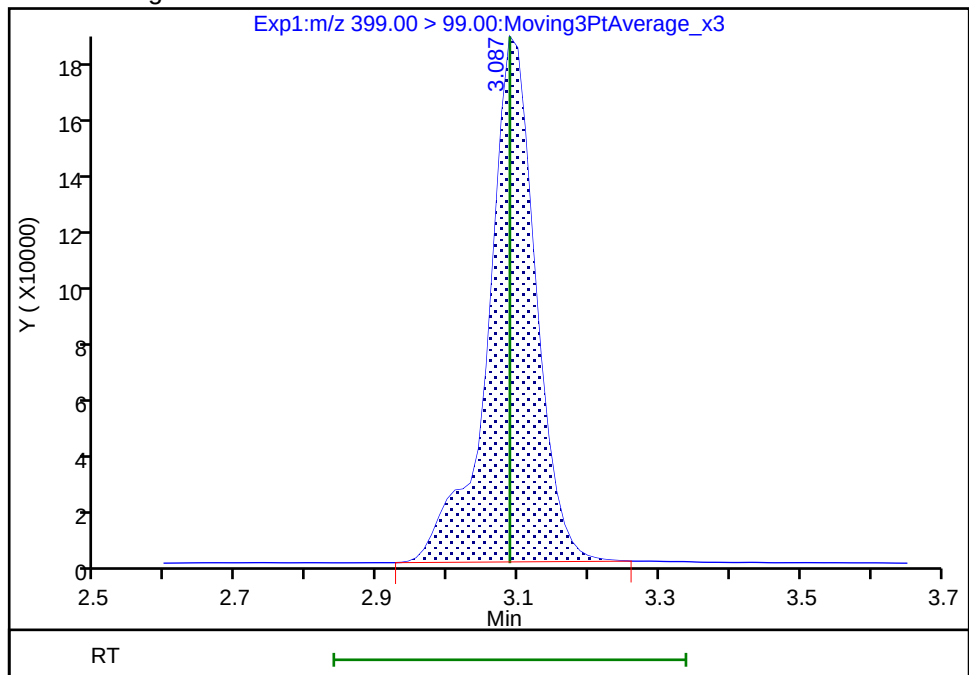
RT: 3.09
Area: 870752
Amount: 2.126141
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 862607
Amount: 2.120751
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:34:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 569 of 97811/21/2022
4:10 PM

Eurofins Burlington

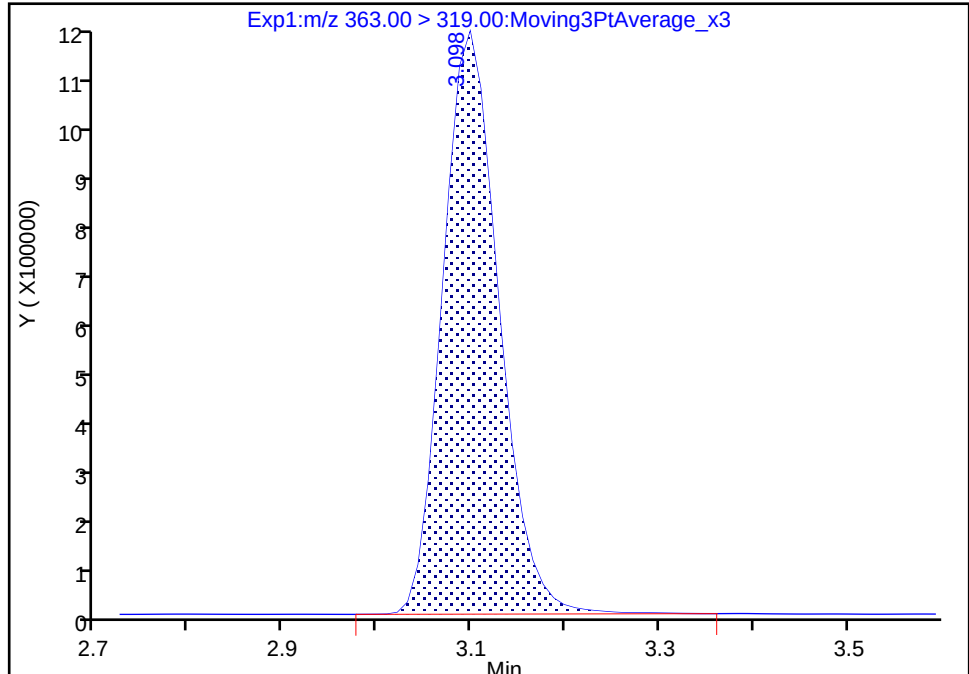
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

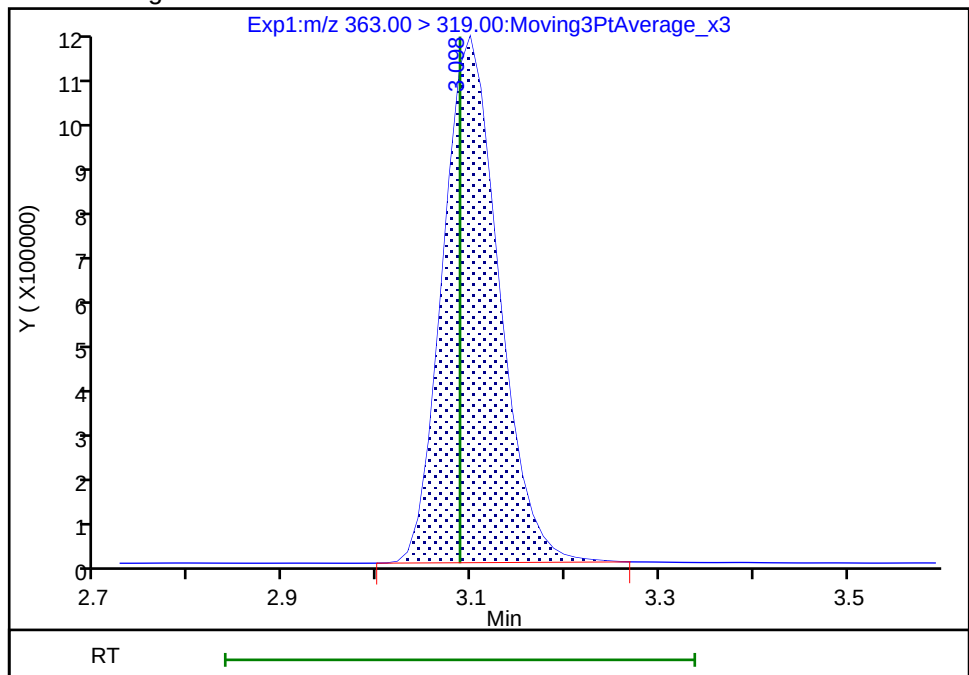
RT: 3.10
Area: 4649438
Amount: 2.486135
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 4628845
Amount: 2.475124
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:34:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

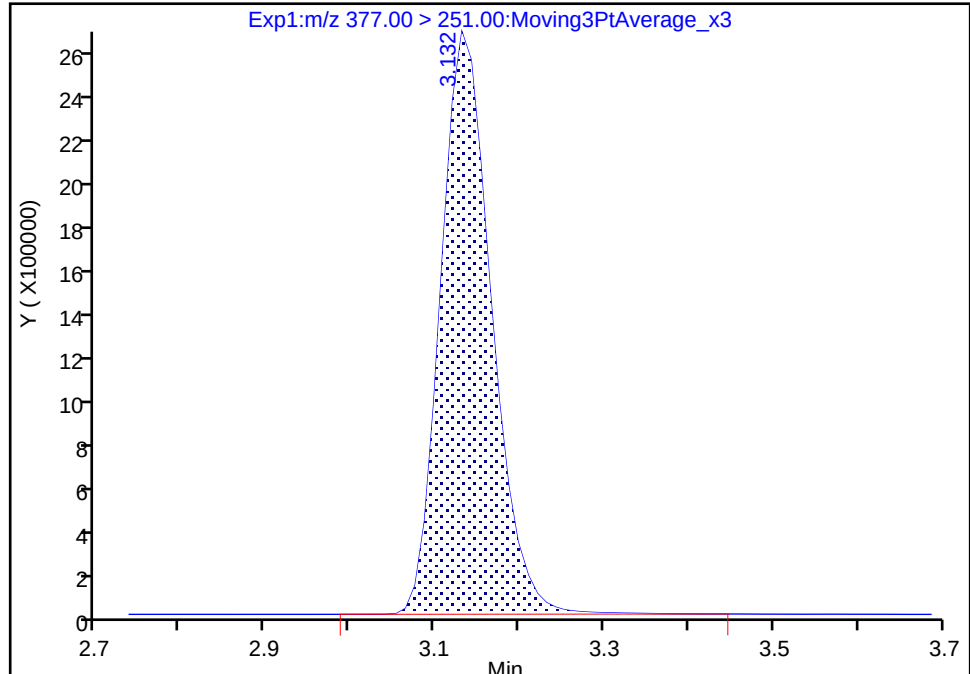
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

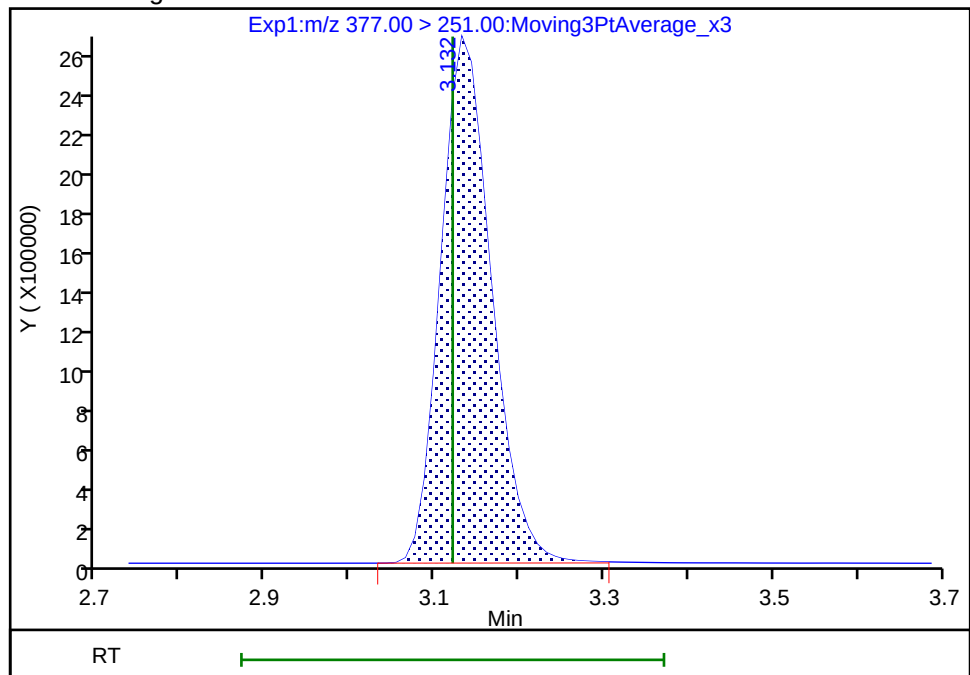
RT: 3.13
Area: 11110091
Amount: 2.366868
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 11092520
Amount: 2.363124
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

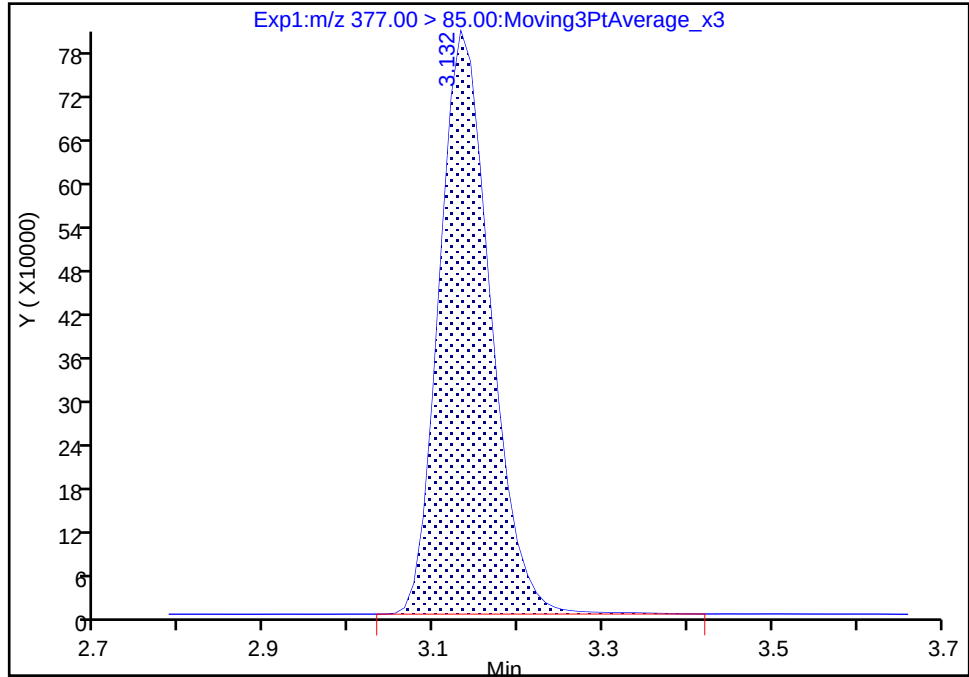
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

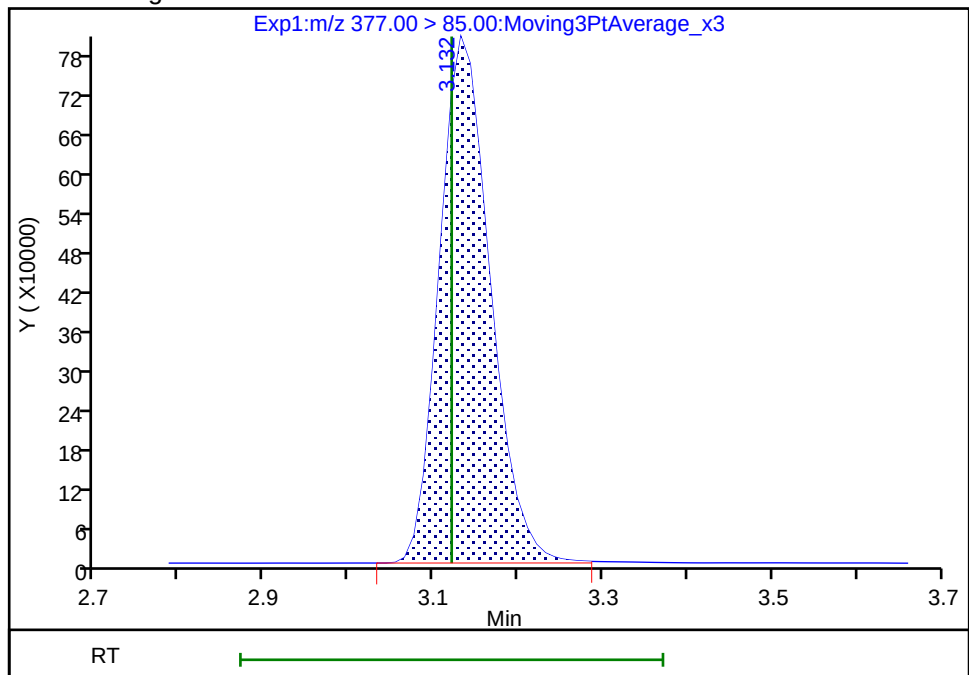
RT: 3.13
Area: 3388279
Amount: 2.366868
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3380181
Amount: 2.363124
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

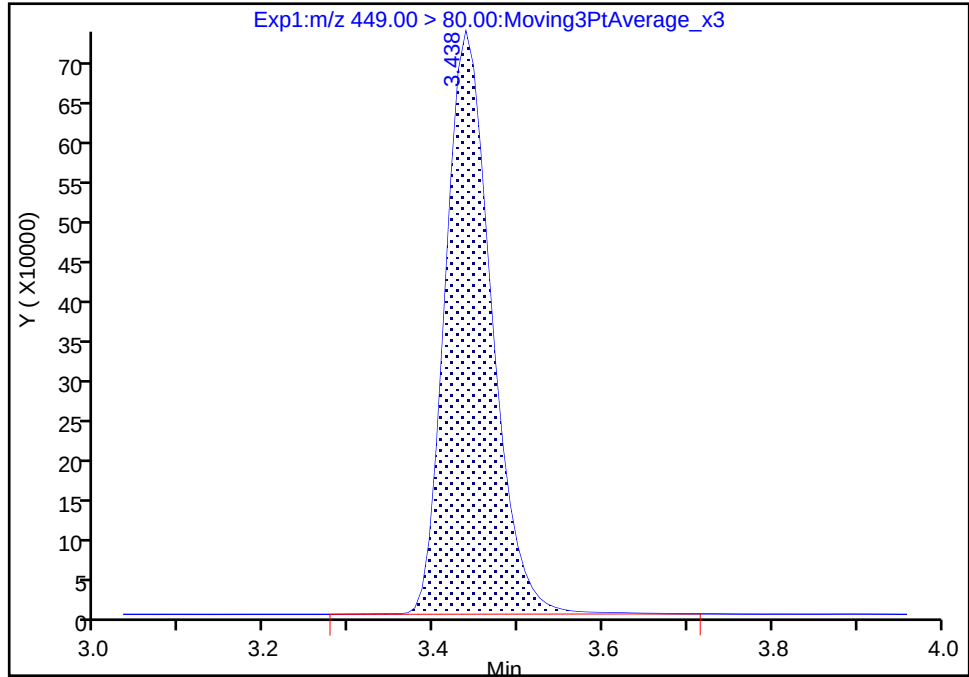
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

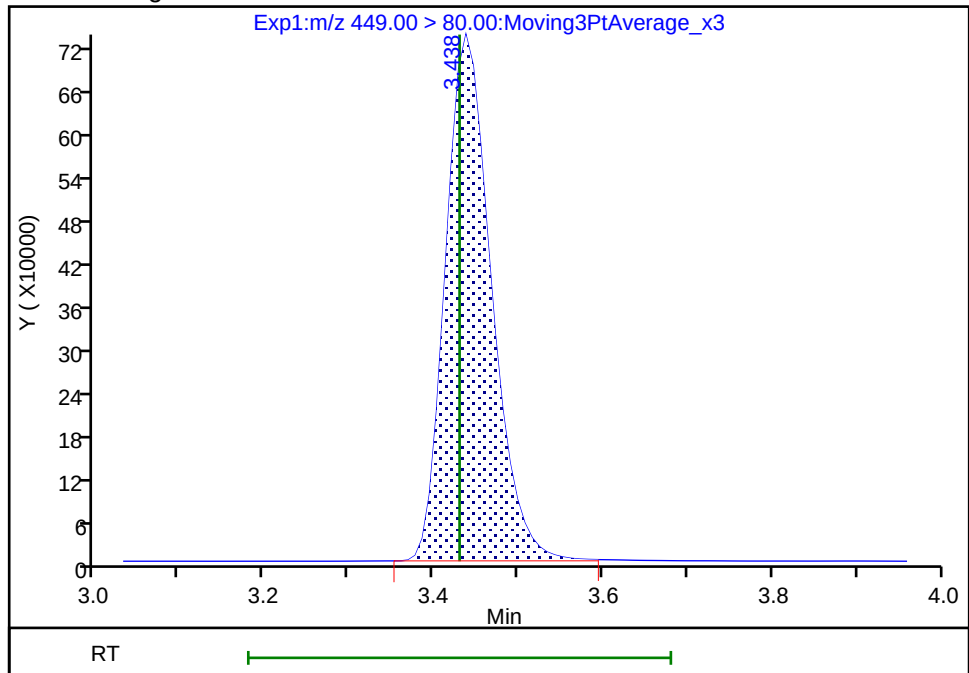
RT: 3.44
Area: 2771762
Amount: 2.329530
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2762341
Amount: 2.321612
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

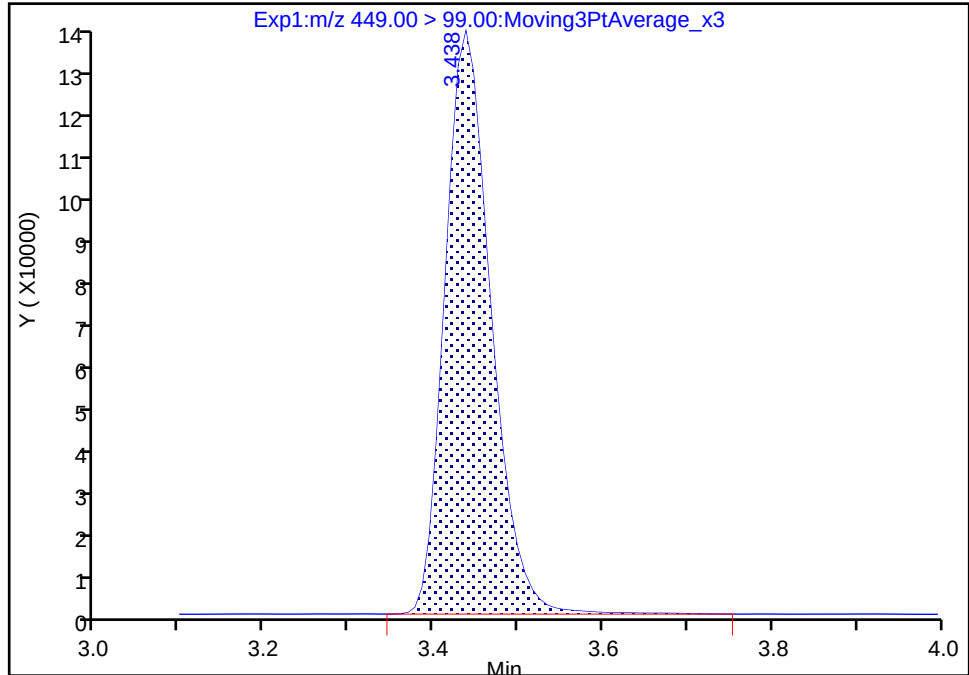
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

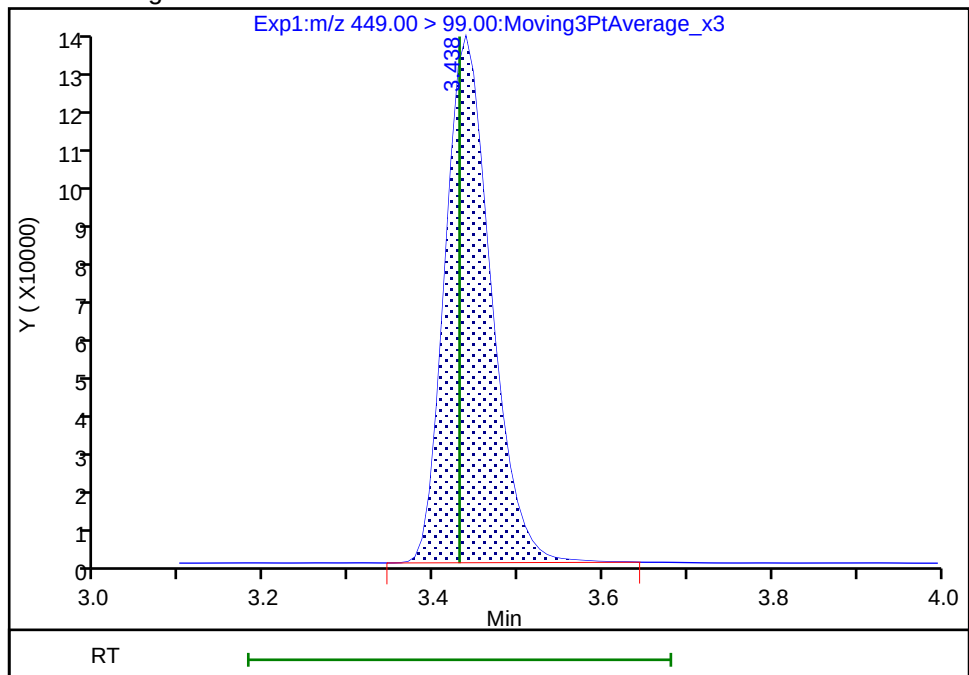
RT: 3.44
Area: 526071
Amount: 2.329530
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 523555
Amount: 2.321612
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

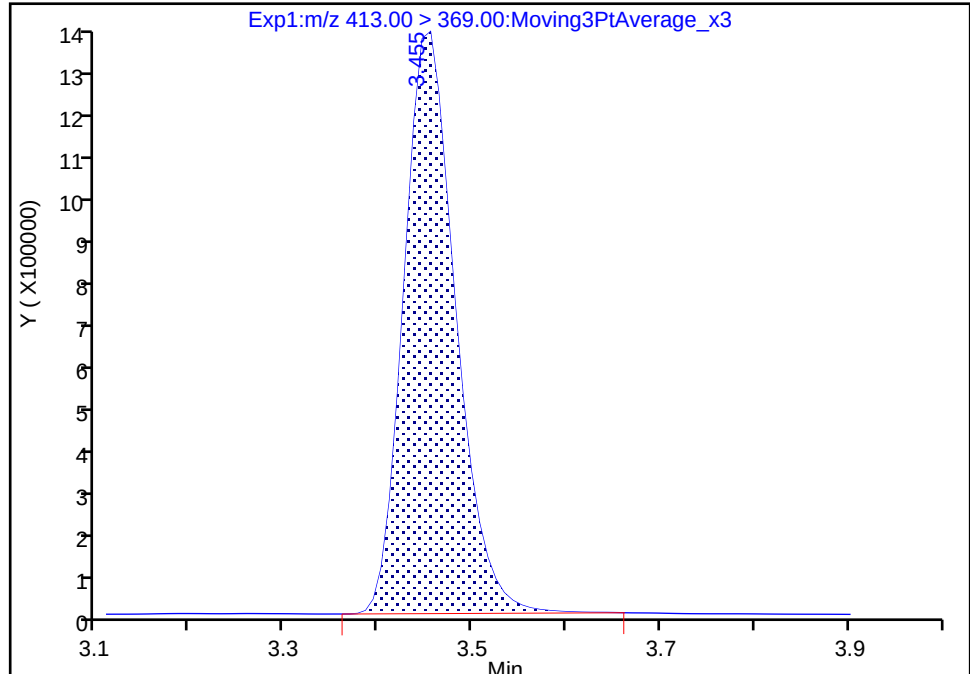
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

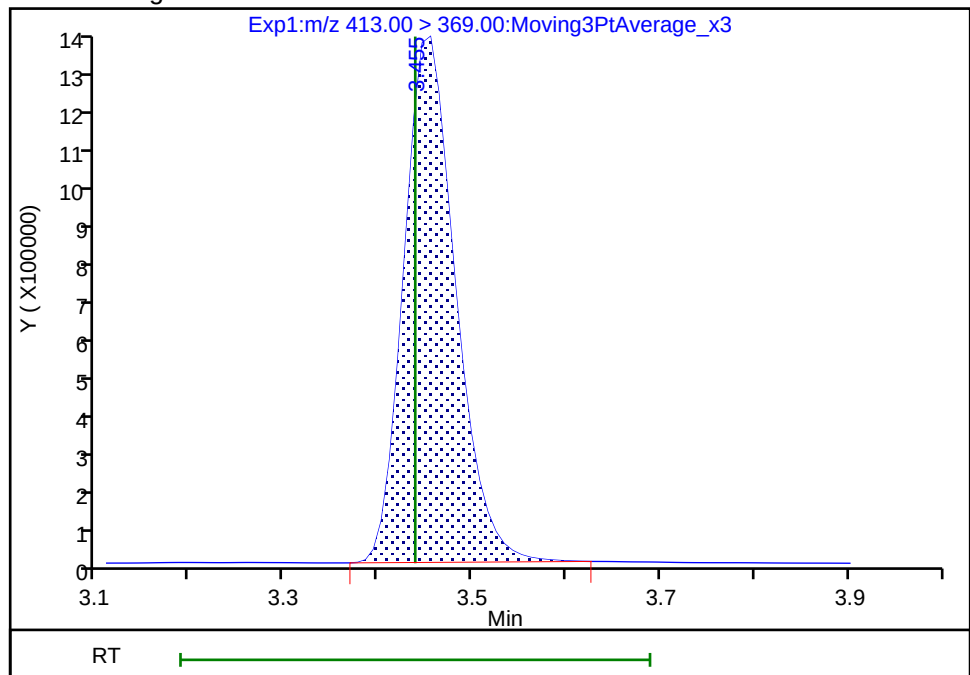
RT: 3.46
Area: 5243865
Amount: 2.400910
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 5232618
Amount: 2.395761
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

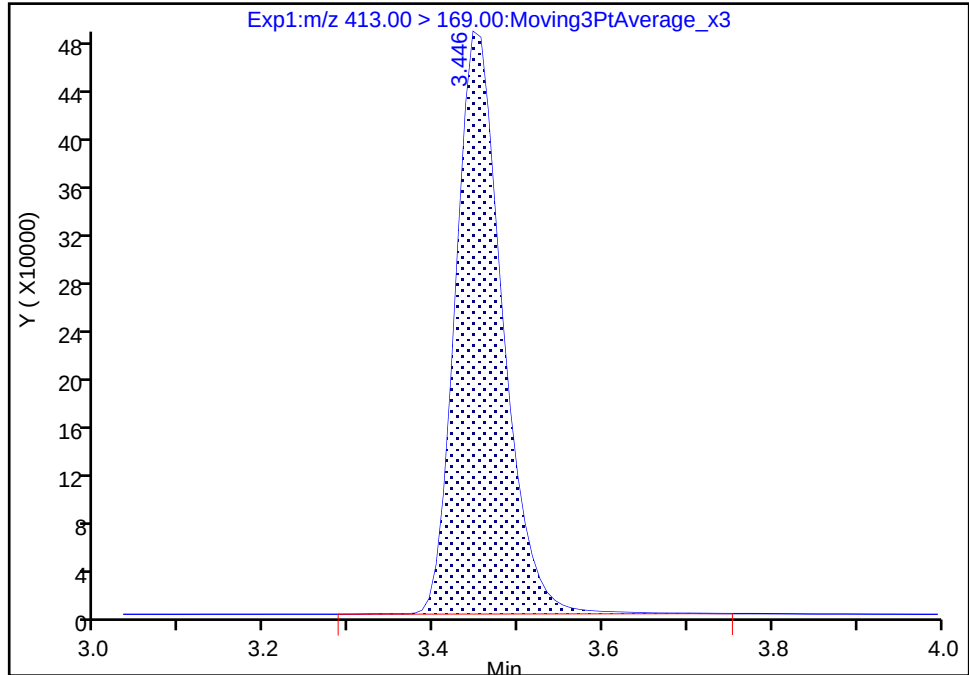
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

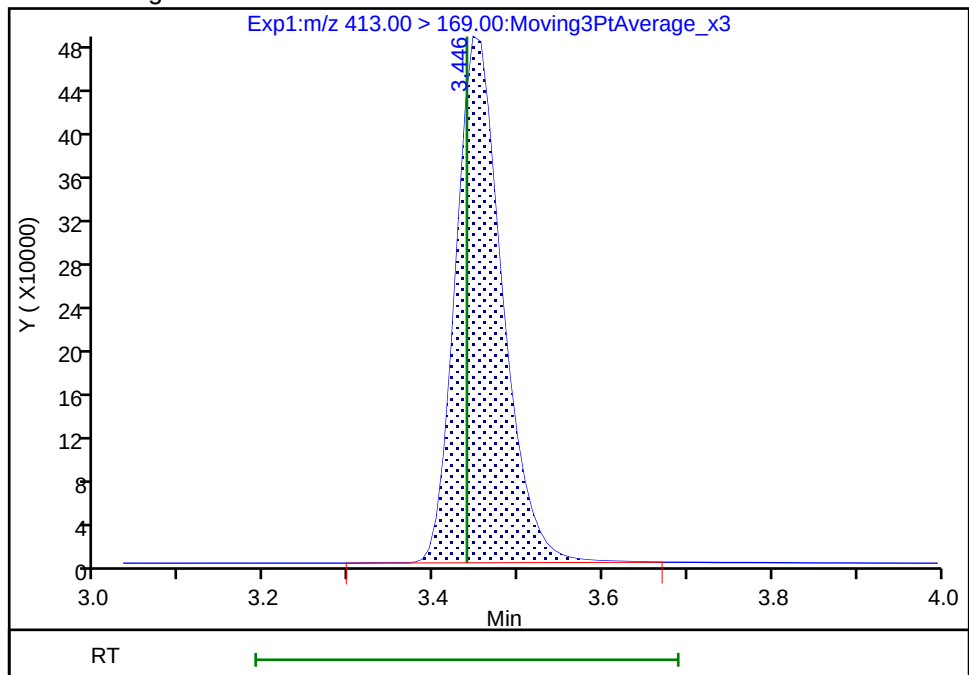
RT: 3.45
Area: 1850451
Amount: 2.400910
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1844915
Amount: 2.395761
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:35:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

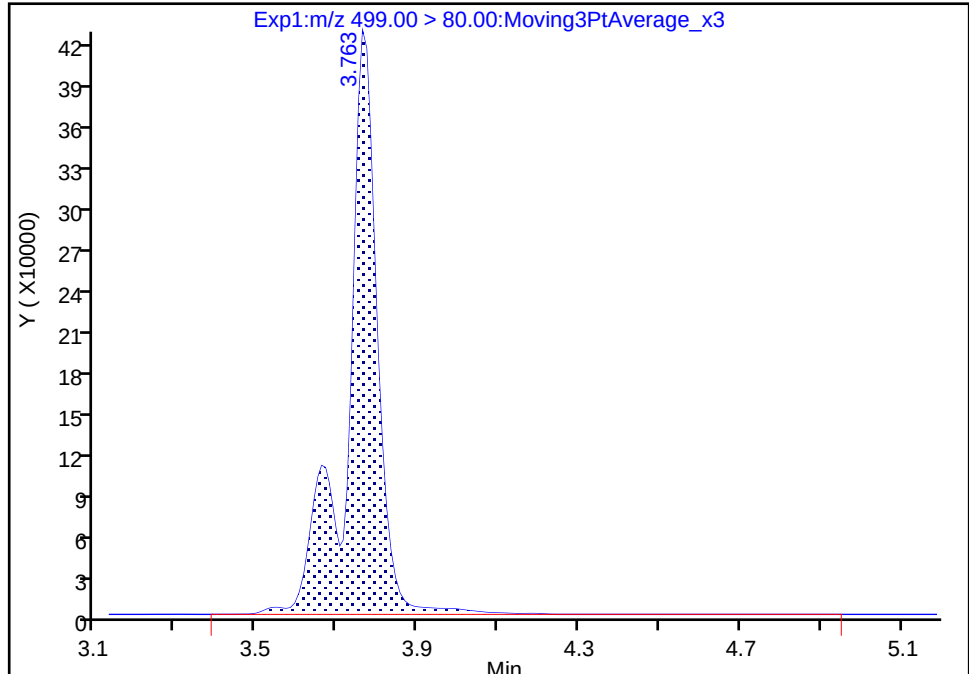
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

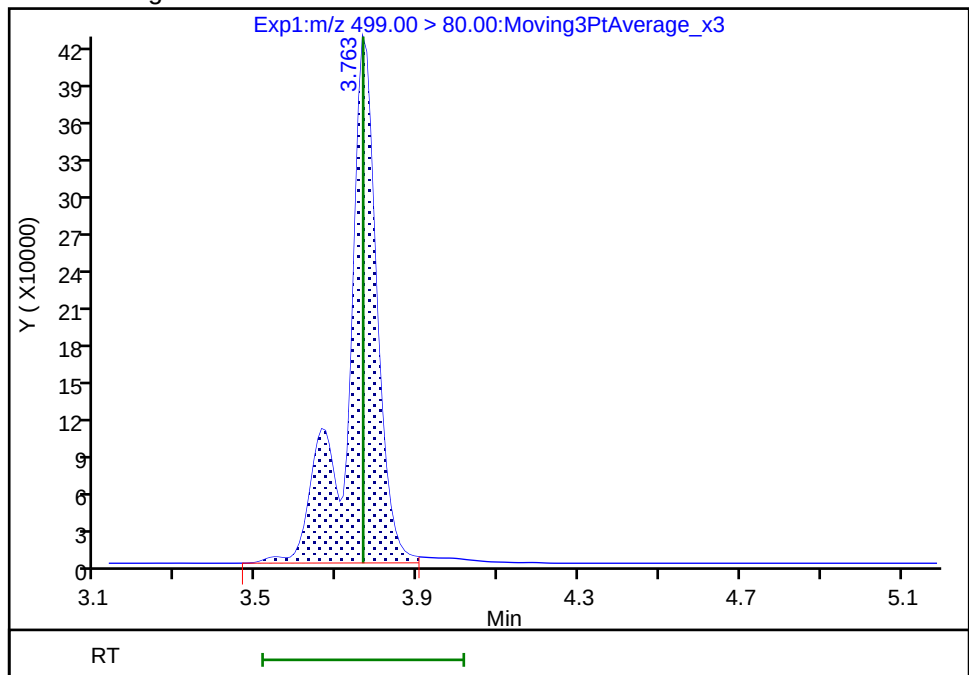
RT: 3.76
Area: 2253640
Amount: 2.196525
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 2205578
Amount: 2.149681
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:53:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

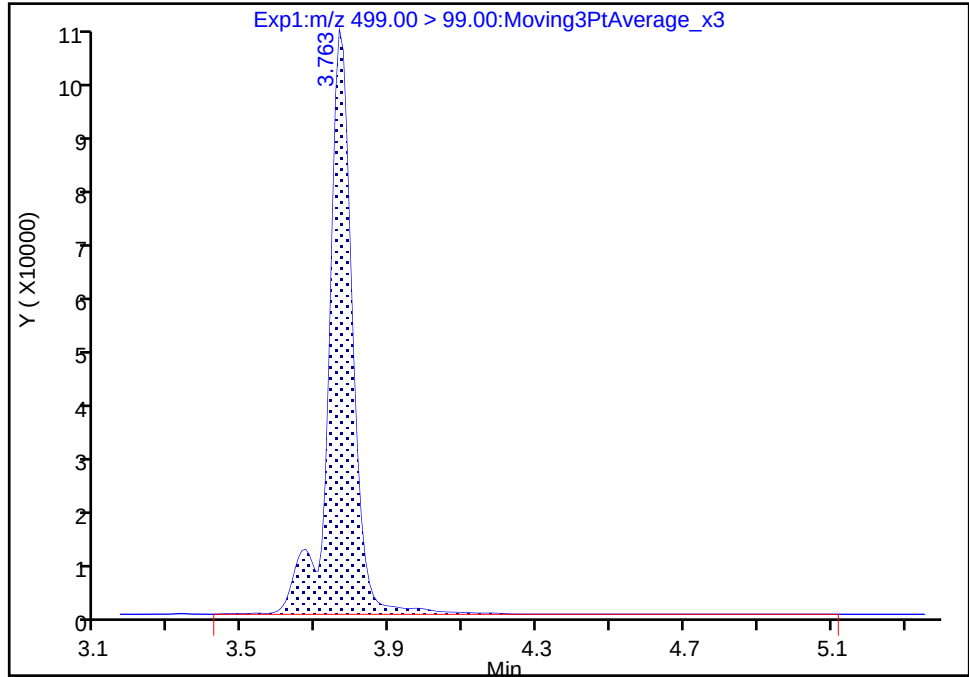
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

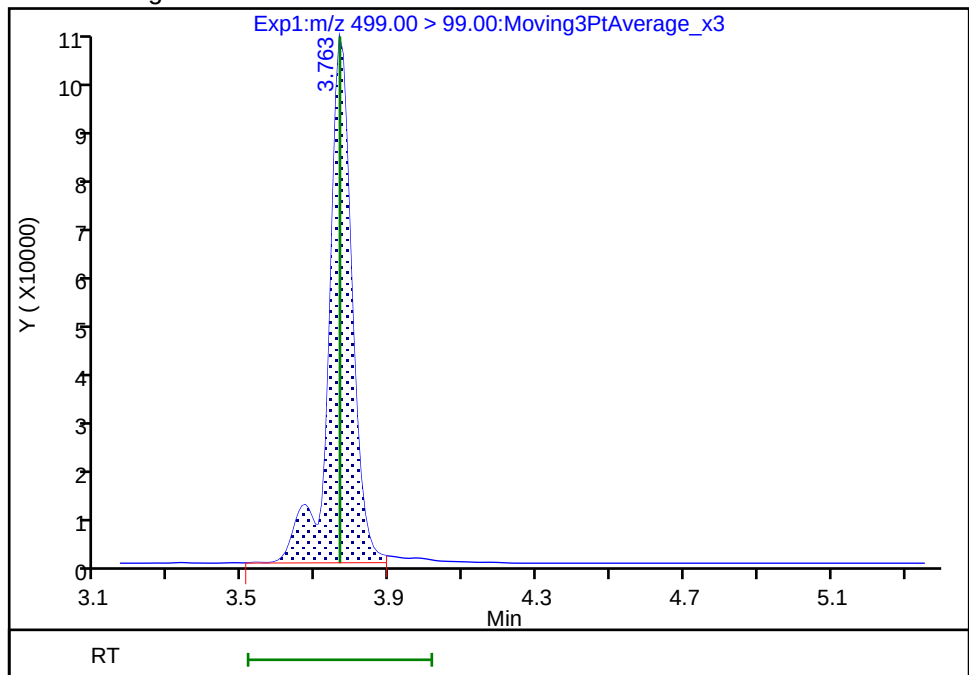
RT: 3.76
Area: 476922
Amount: 2.196525
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 463996
Amount: 2.149681
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:53:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 578 of 97811/21/2022
4:10 PM

Eurofins Burlington

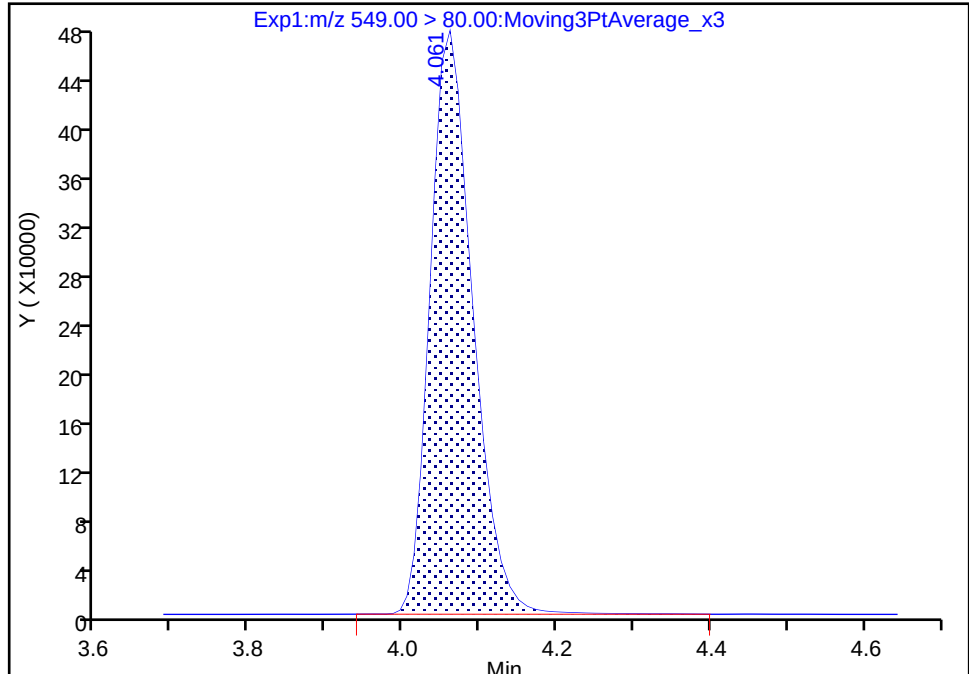
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

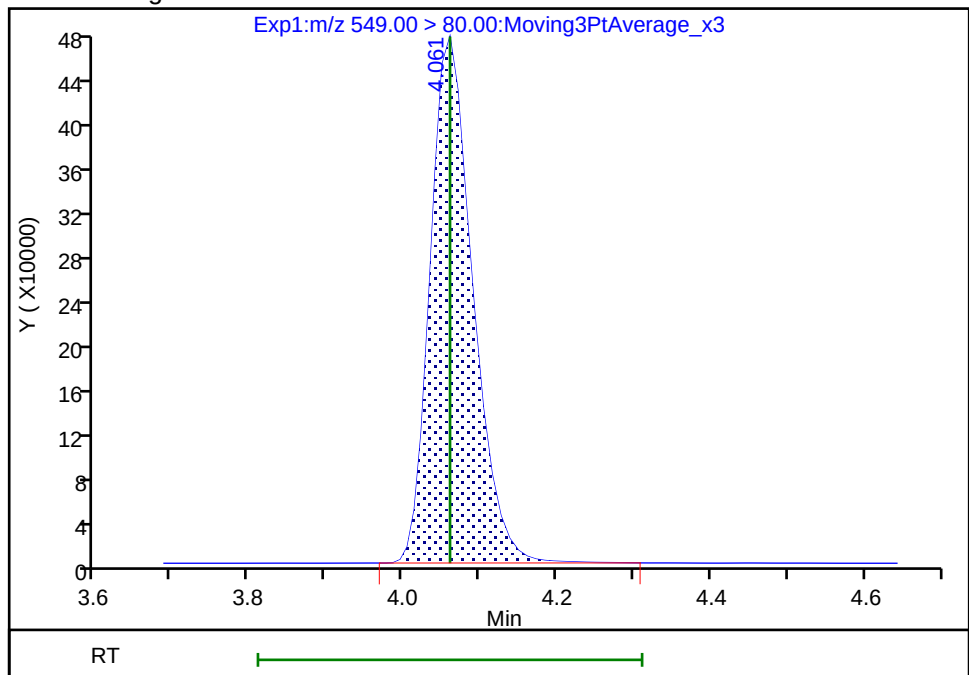
RT: 4.06
Area: 1826996
Amount: 2.443814
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 1823856
Amount: 2.439614
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:36:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

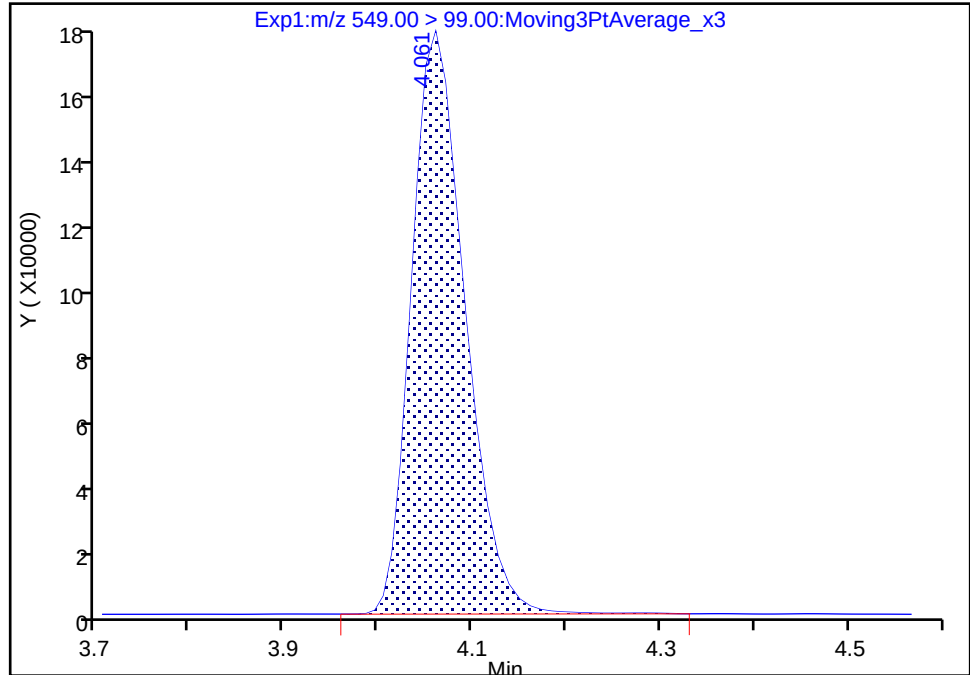
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

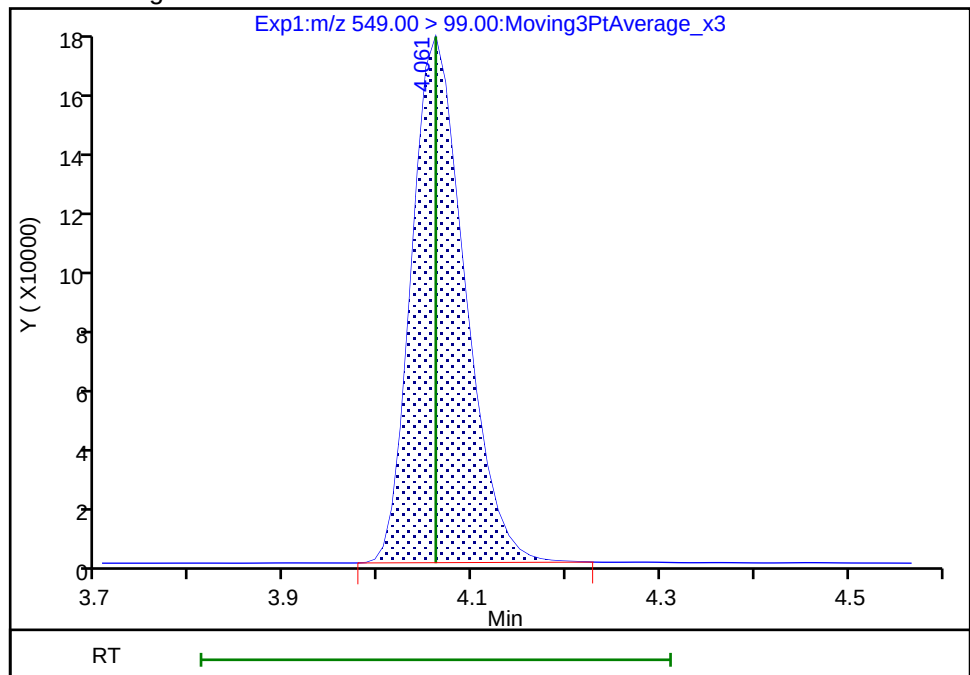
RT: 4.06
Area: 685596
Amount: 2.443814
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 682564
Amount: 2.439614
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:36:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

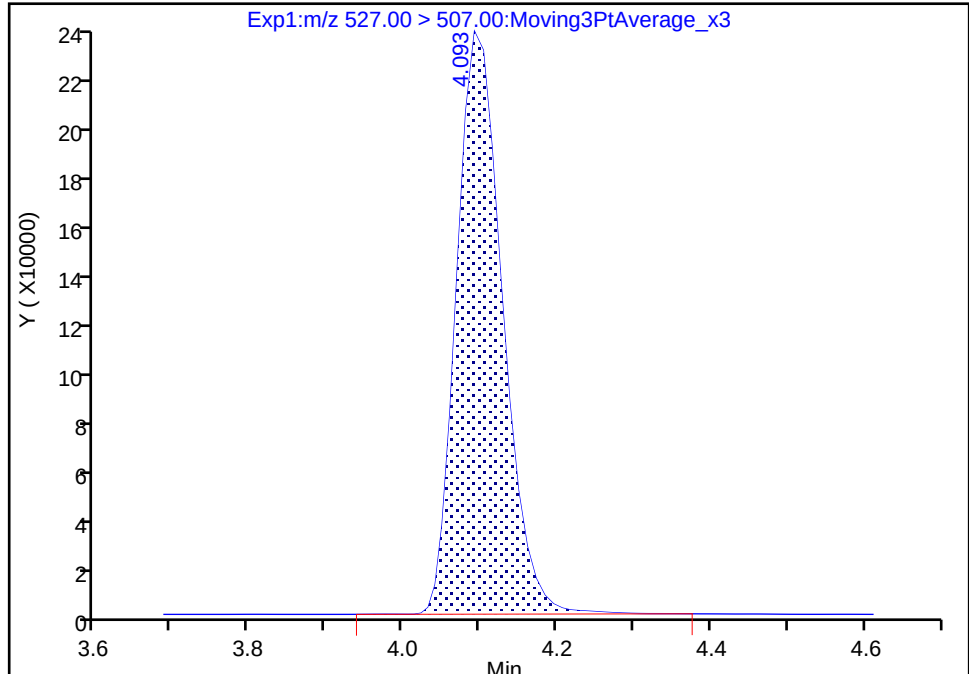
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

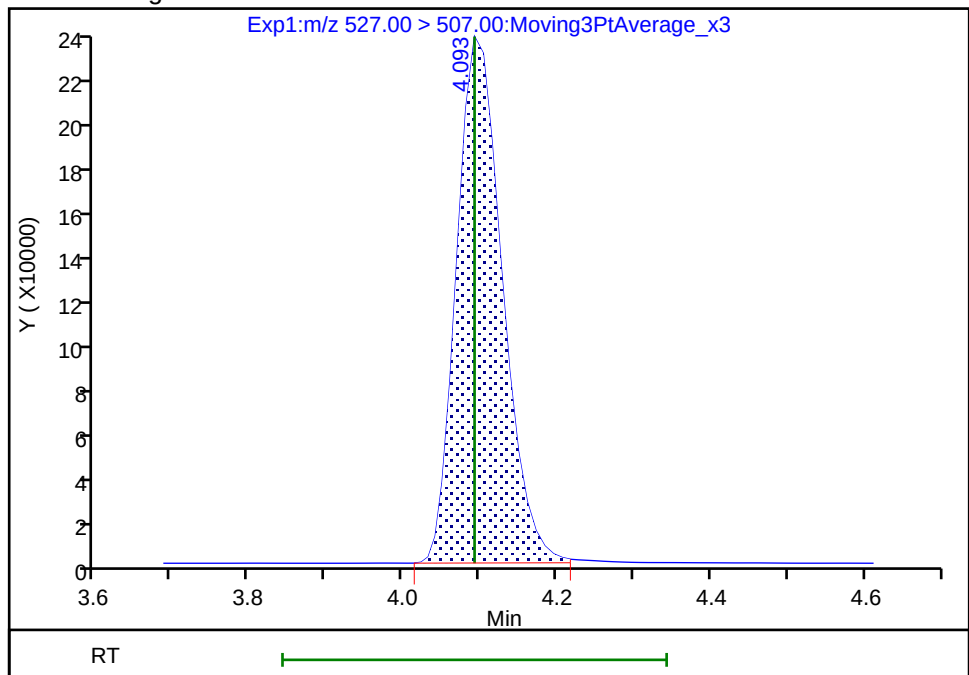
RT: 4.09
Area: 960618
Amount: 3.109177
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 955705
Amount: 3.093275
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:36:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

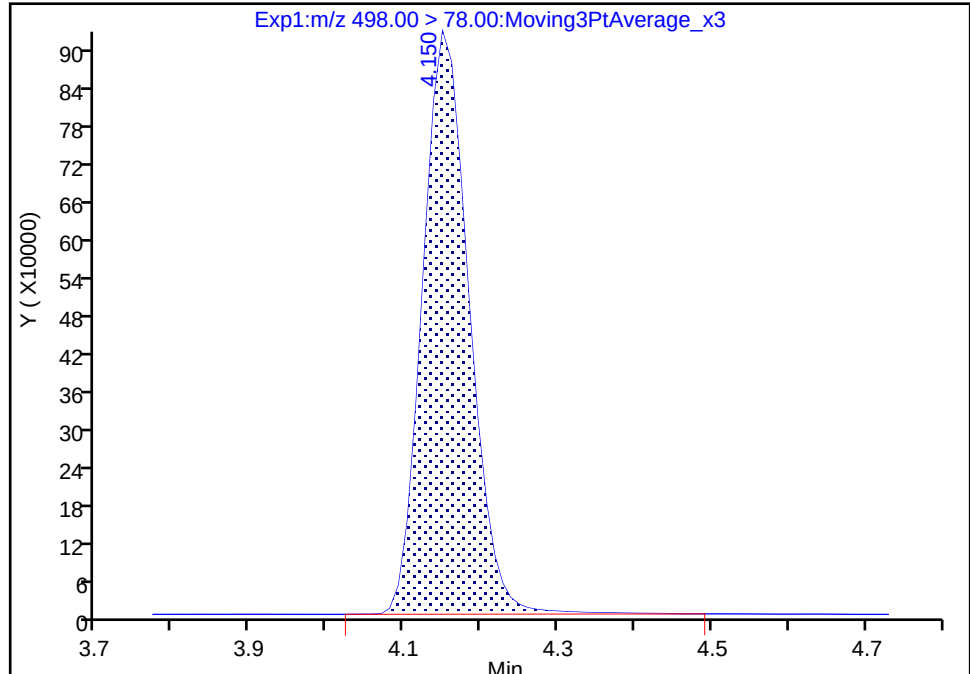
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

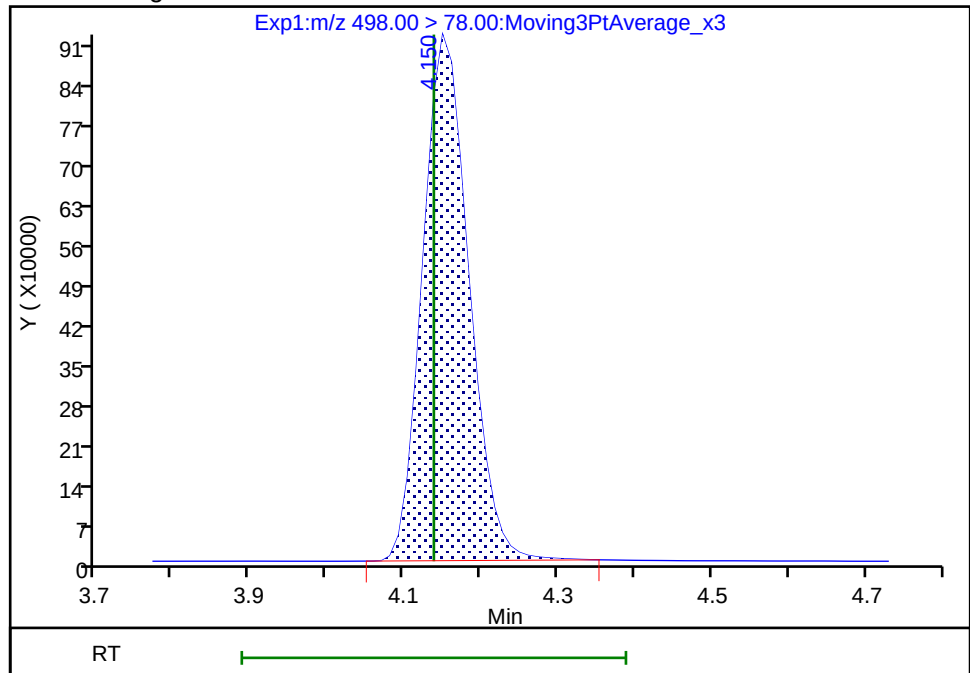
RT: 4.15
Area: 3873628
Amount: 2.485054
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 3848176
Amount: 2.468725
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:36:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

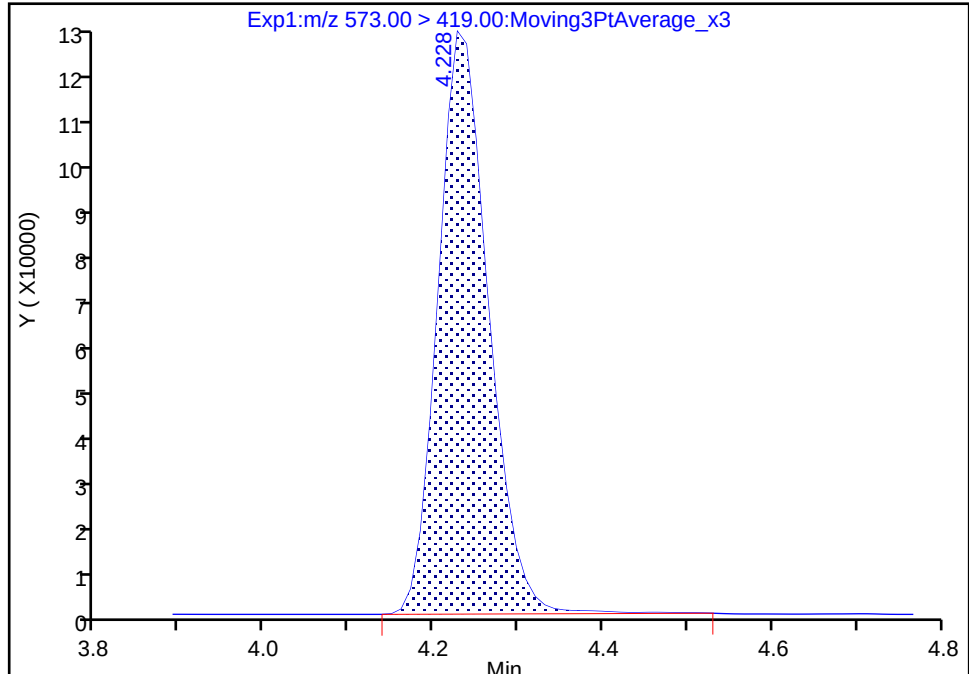
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

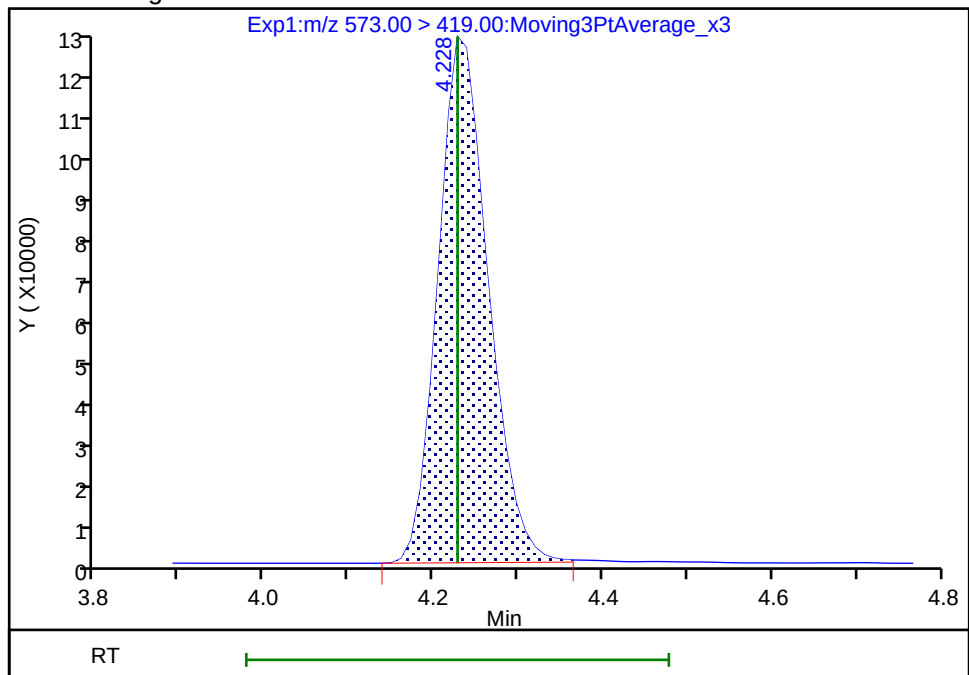
RT: 4.23
Area: 503058
Amount: 1.938669
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 499779
Amount: 1.926032
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

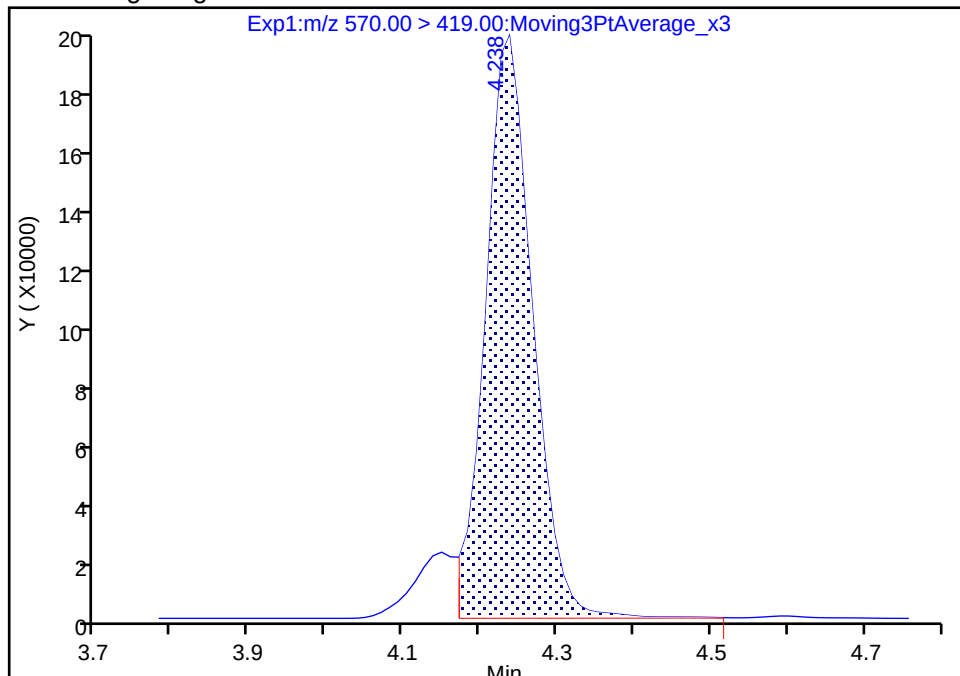
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

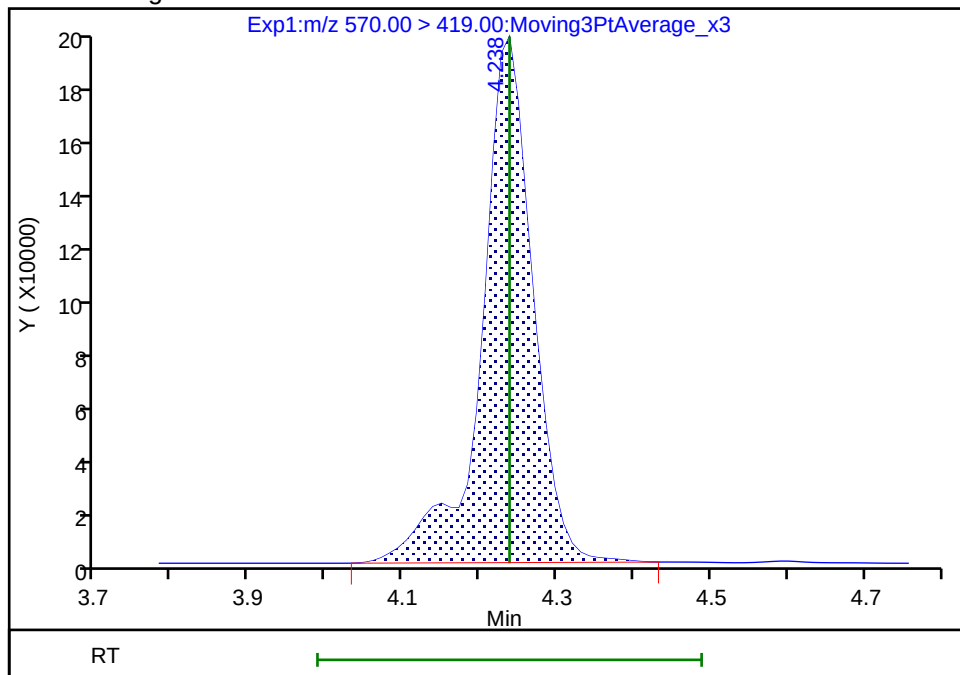
RT: 4.24
Area: 823255
Amount: 2.226481
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 901789
Amount: 2.438875
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

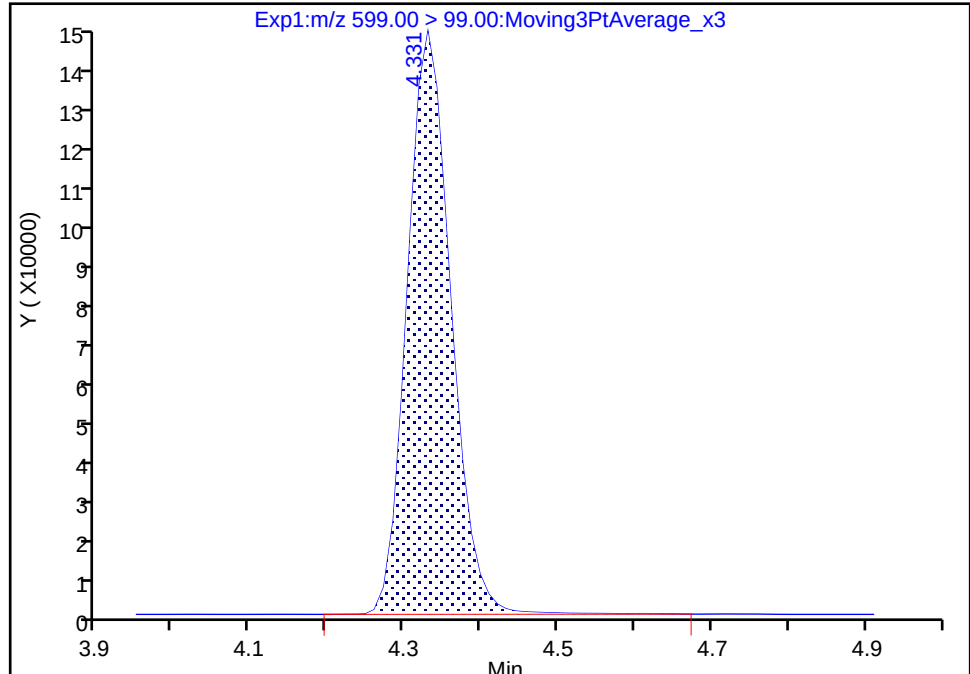
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

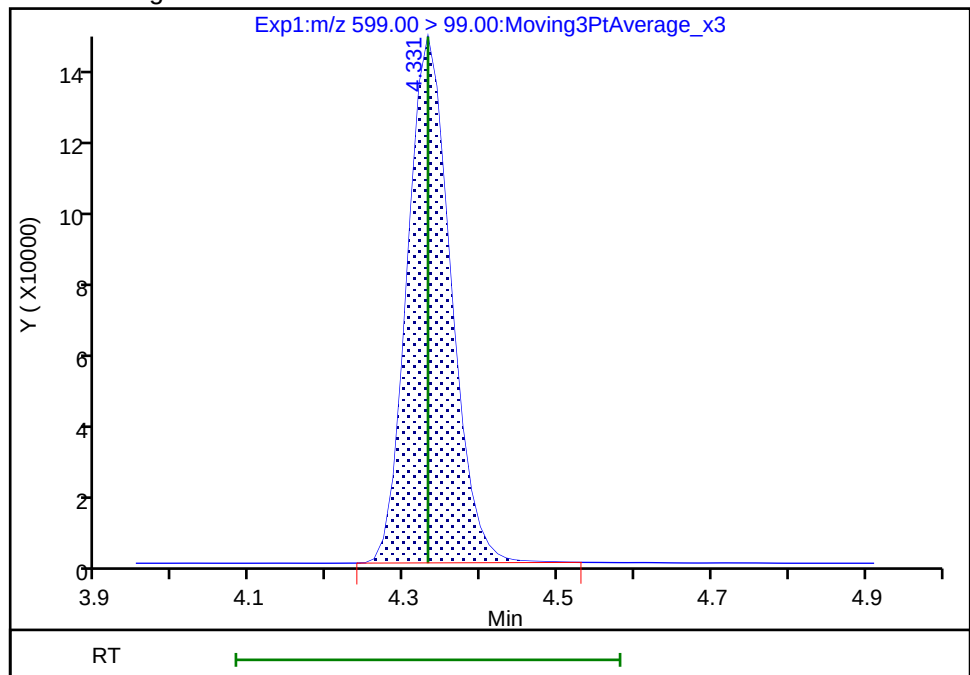
RT: 4.33
Area: 554293
Amount: 2.489836
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 551452
Amount: 2.478128
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

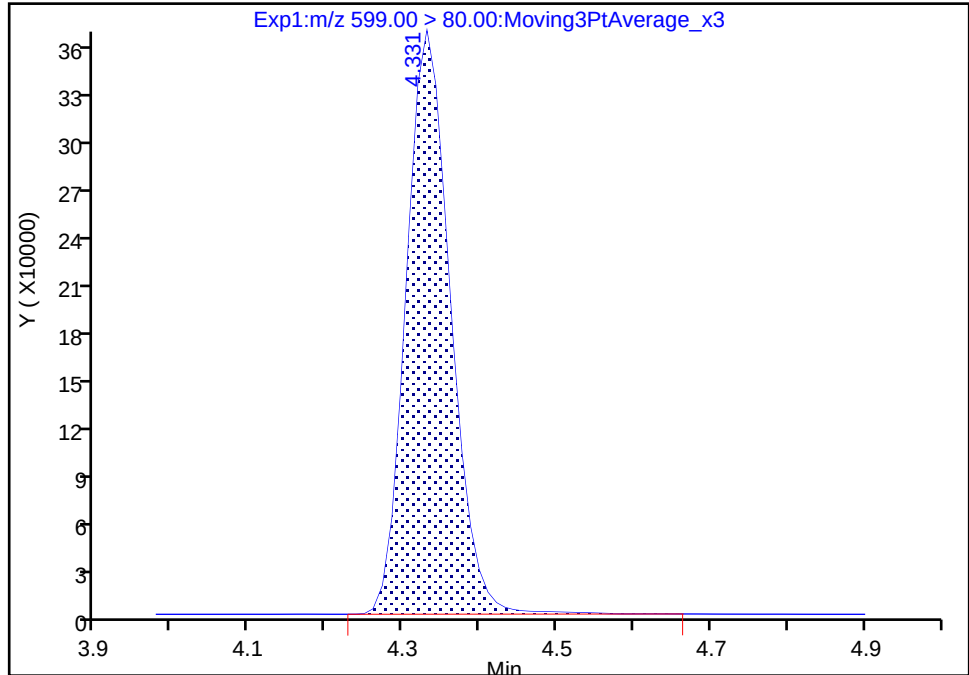
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

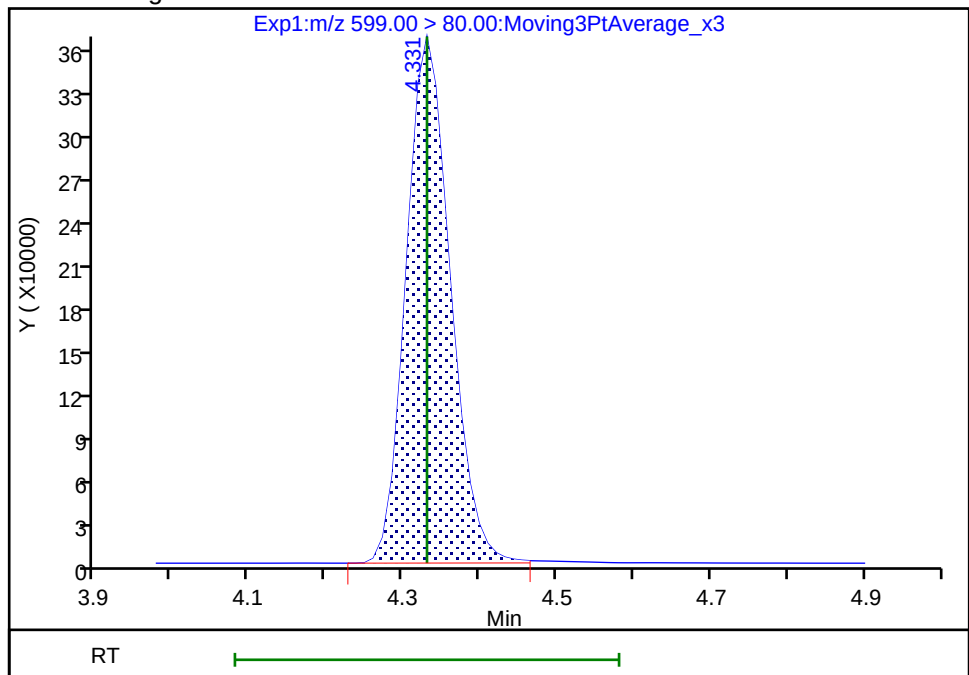
RT: 4.33
Area: 1450735
Amount: 2.489836
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 1443913
Amount: 2.478128
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

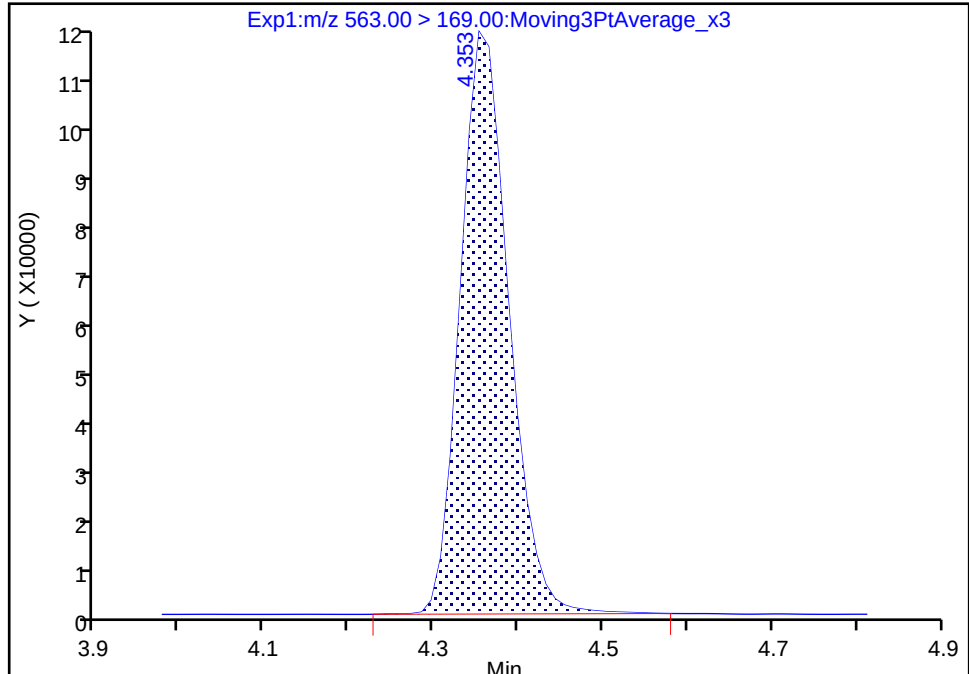
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

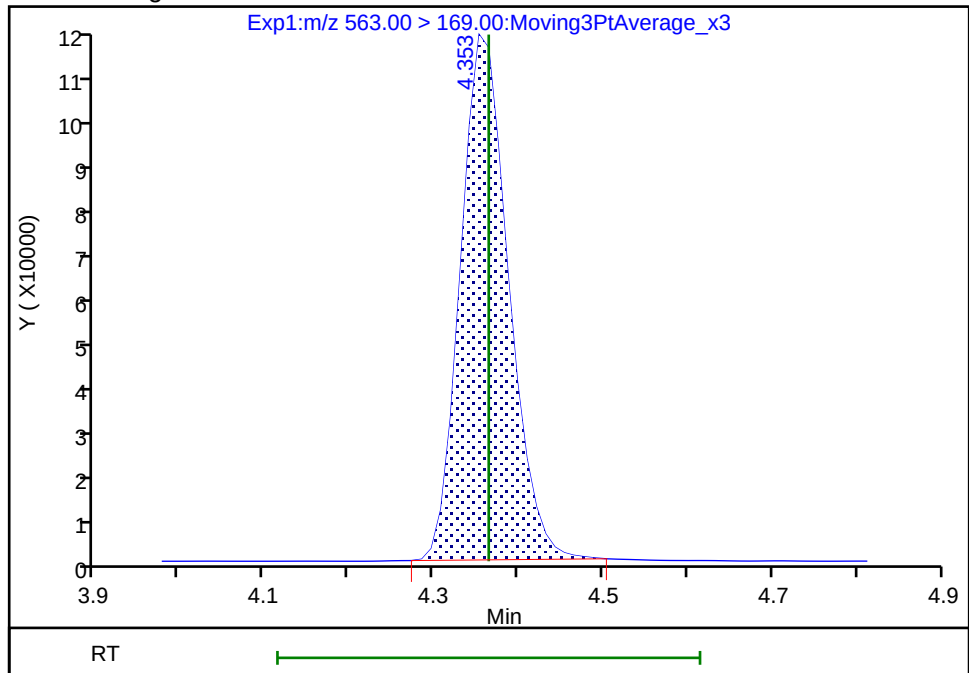
RT: 4.35
Area: 440723
Amount: 2.369927
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 436300
Amount: 2.349260
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

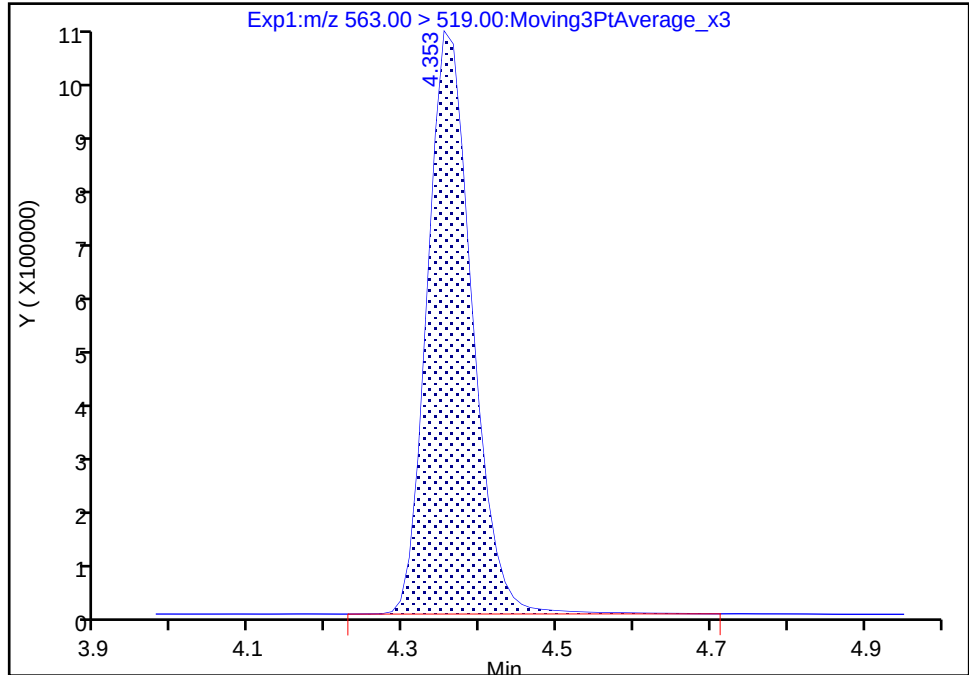
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

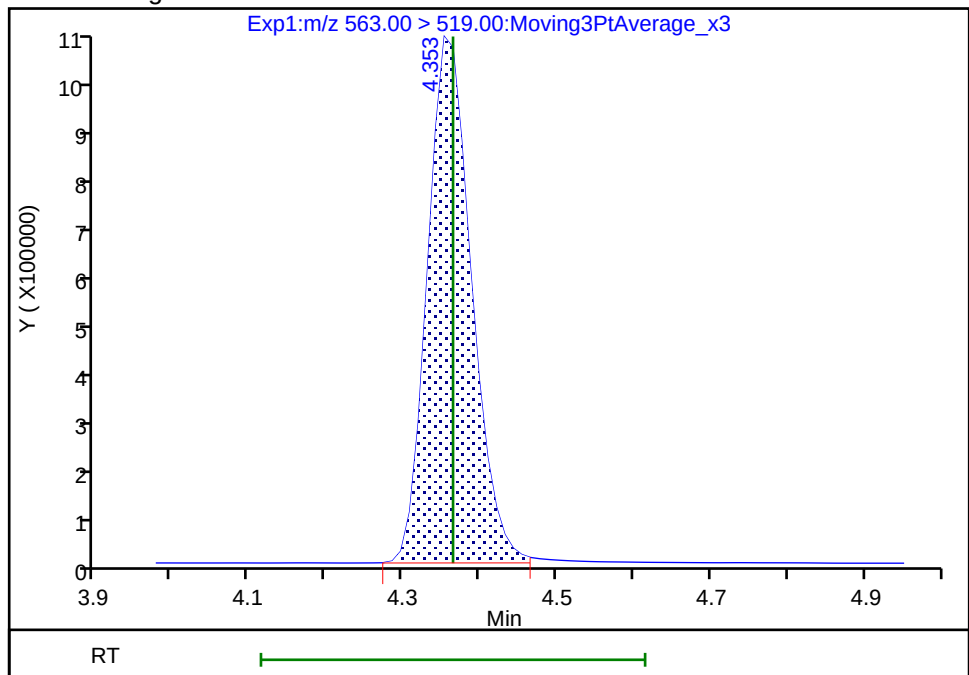
RT: 4.35
Area: 4398660
Amount: 2.369927
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 4360301
Amount: 2.349260
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 588 of 97811/21/2022
4:10 PM

Eurofins Burlington

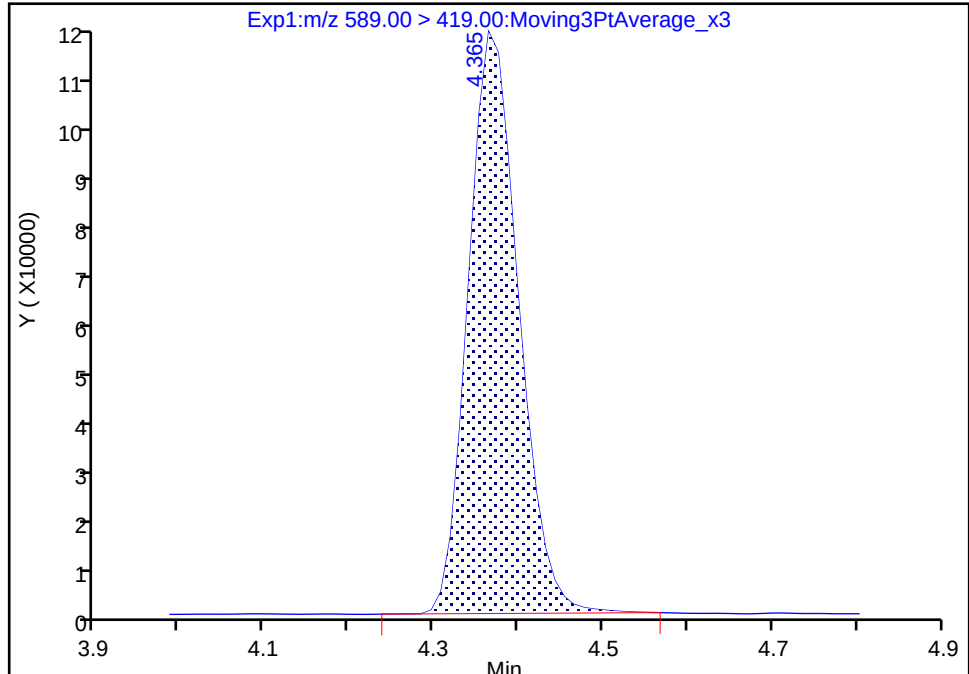
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

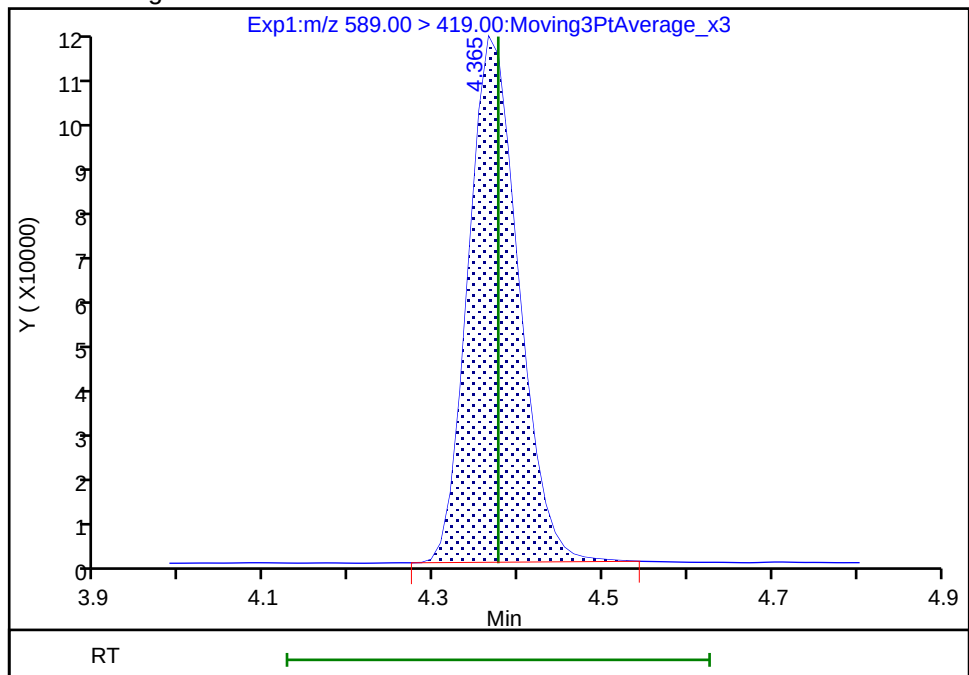
RT: 4.36
Area: 484228
Amount: 1.880331
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 483154
Amount: 1.876161
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:50:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 589 of 978

11/21/2022
4:10 PM

Eurofins Burlington

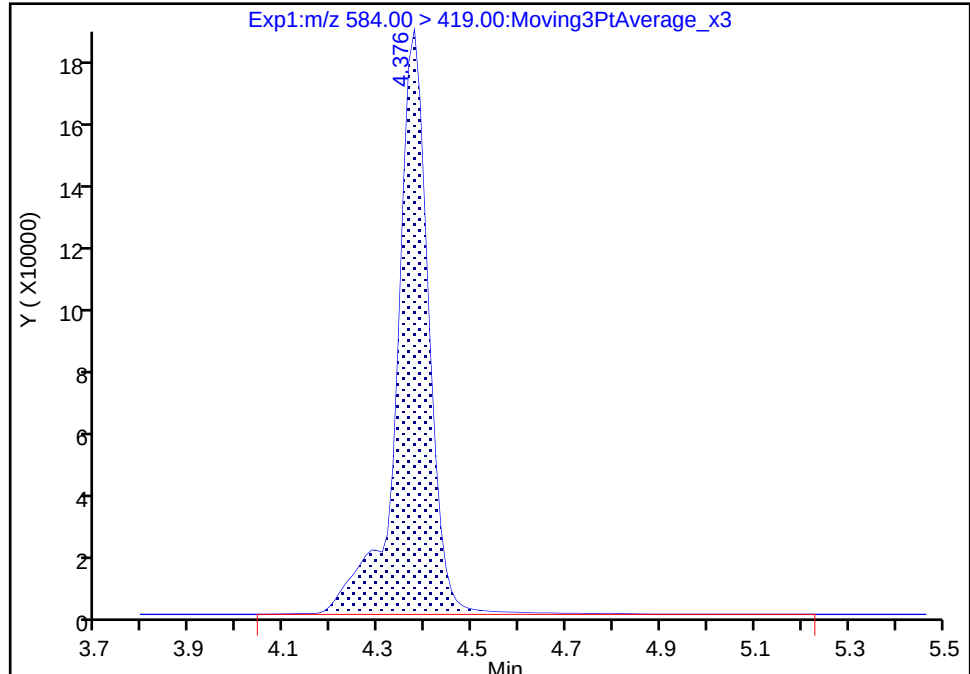
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

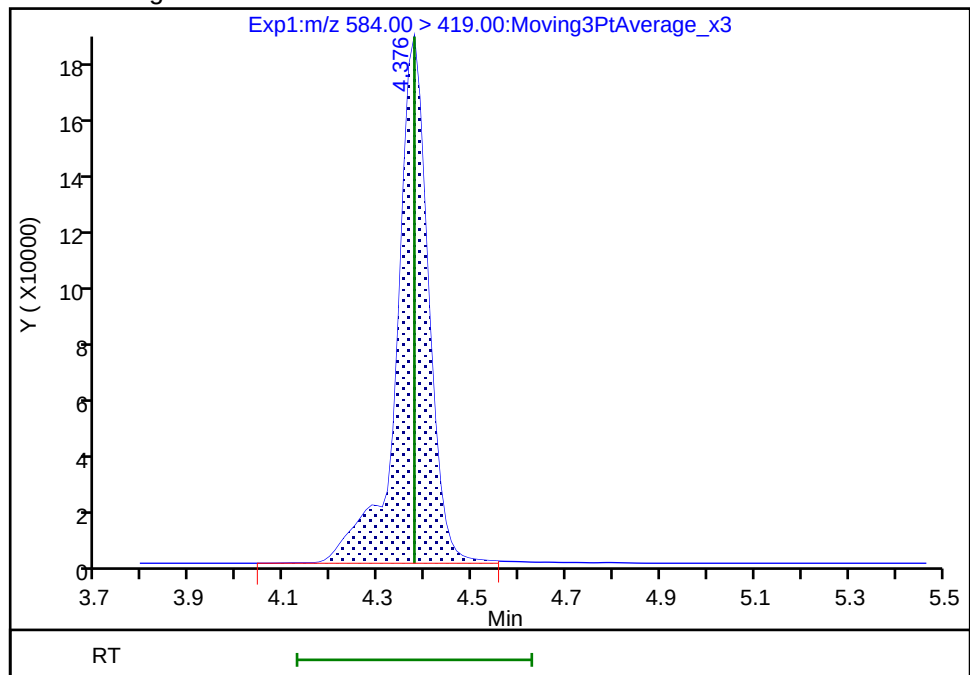
RT: 4.38
Area: 859228
Amount: 2.427553
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 853567
Amount: 2.416920
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:37:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

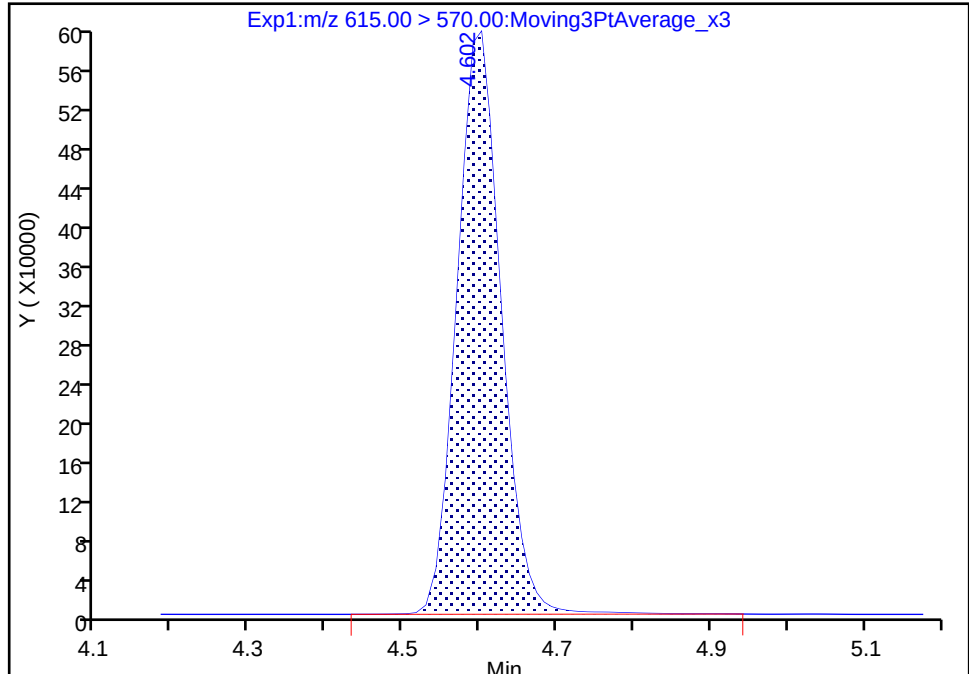
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

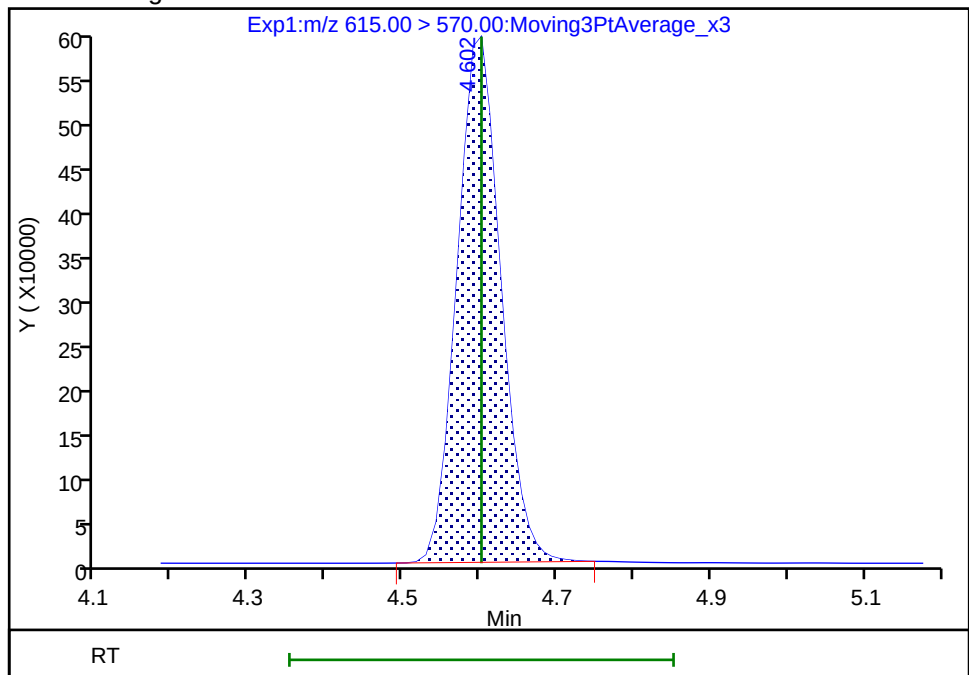
RT: 4.60
Area: 2340793
Amount: 1.590526
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2316694
Amount: 1.574151
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:33:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

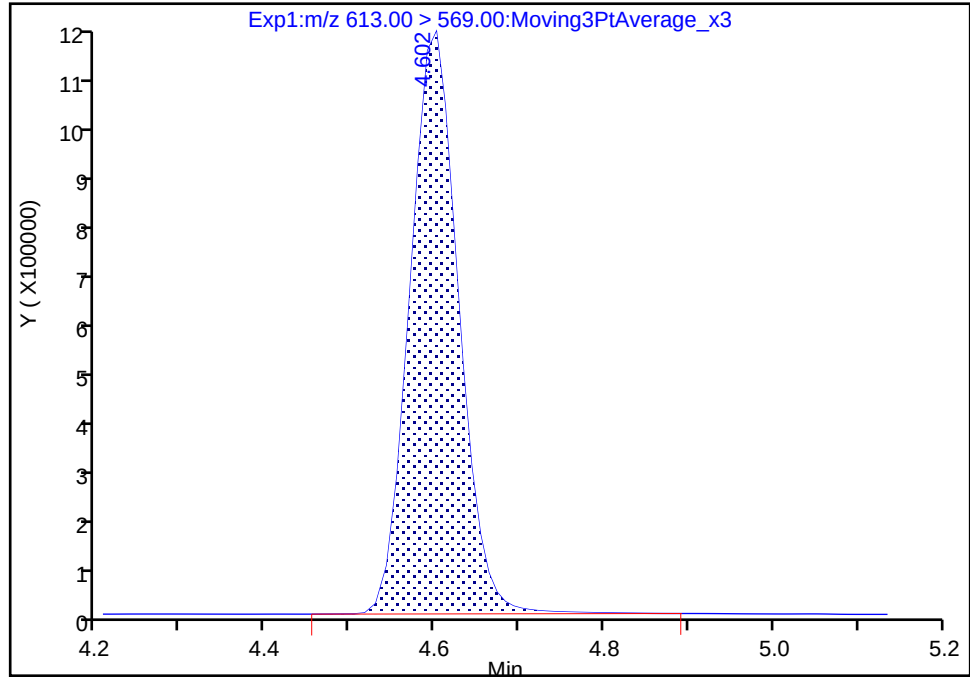
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

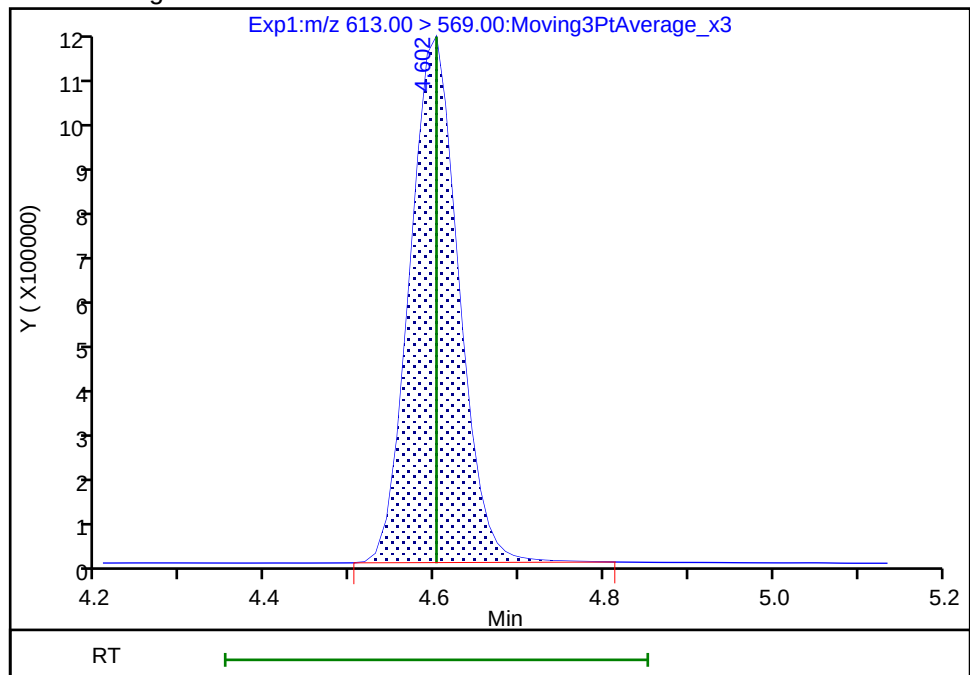
RT: 4.60
Area: 4601744
Amount: 2.323575
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 4585578
Amount: 2.315412
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d

Injection Date: 16-Nov-2022 20:04:36

Instrument ID: LC812

Lims ID: CCV L5

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)

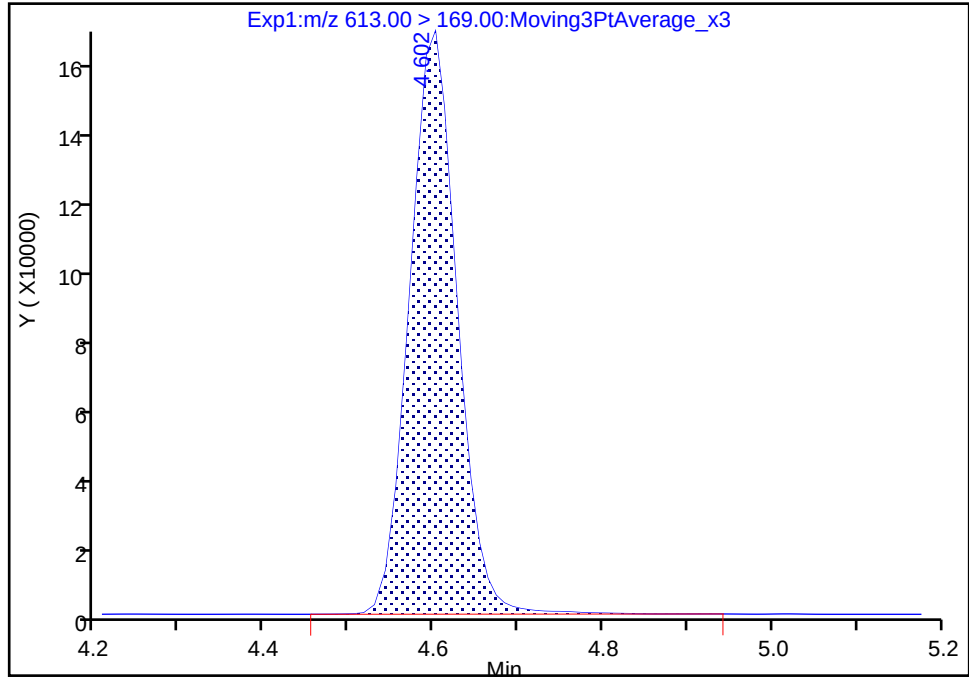
Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

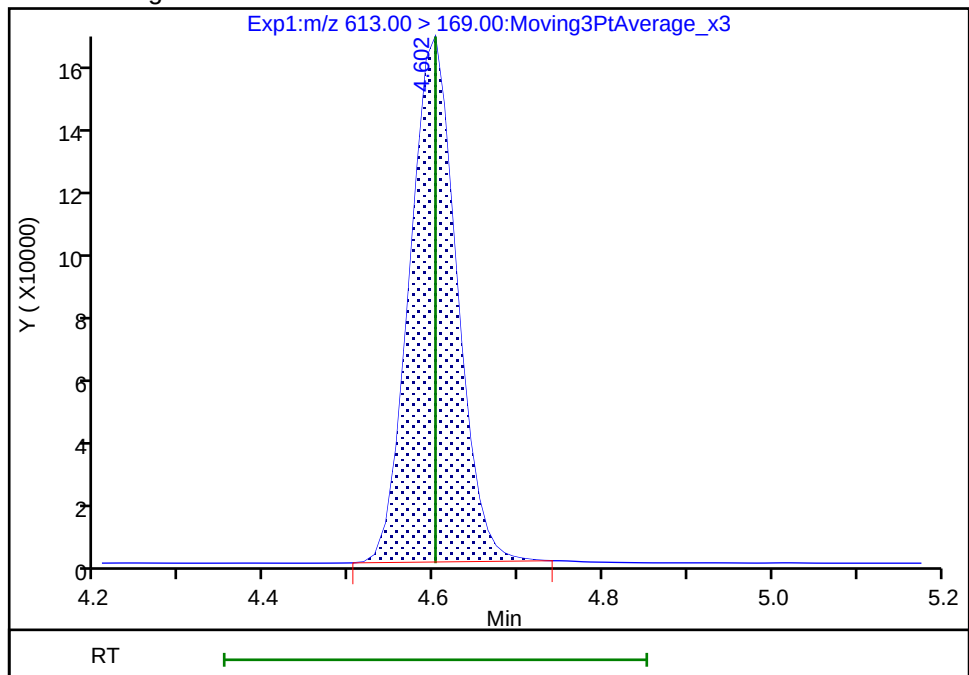
RT: 4.60
Area: 649915
Amount: 2.323575
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 641920
Amount: 2.315412
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

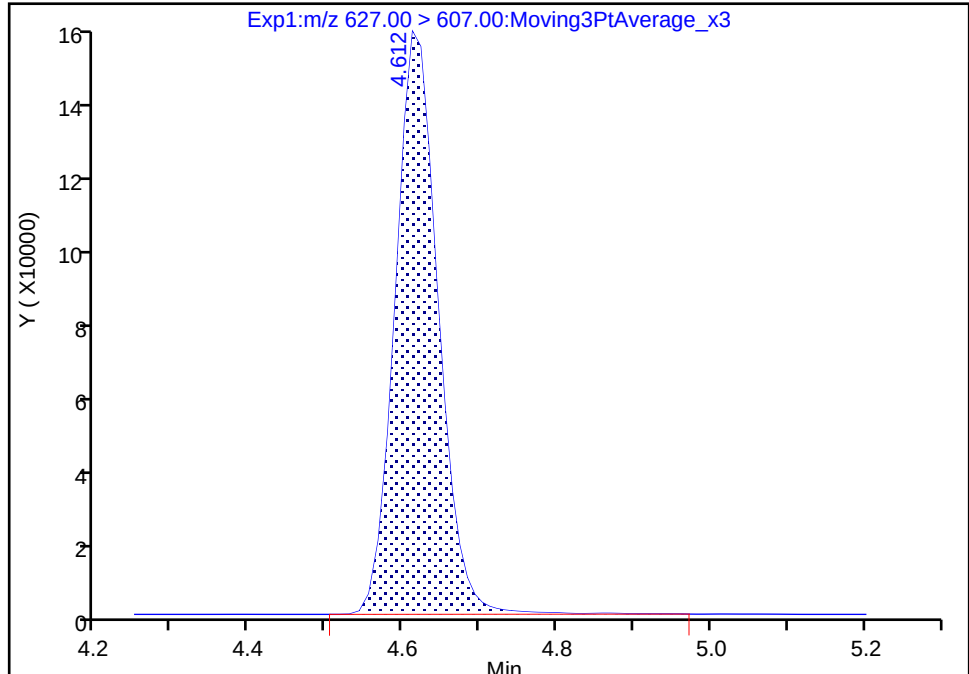
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

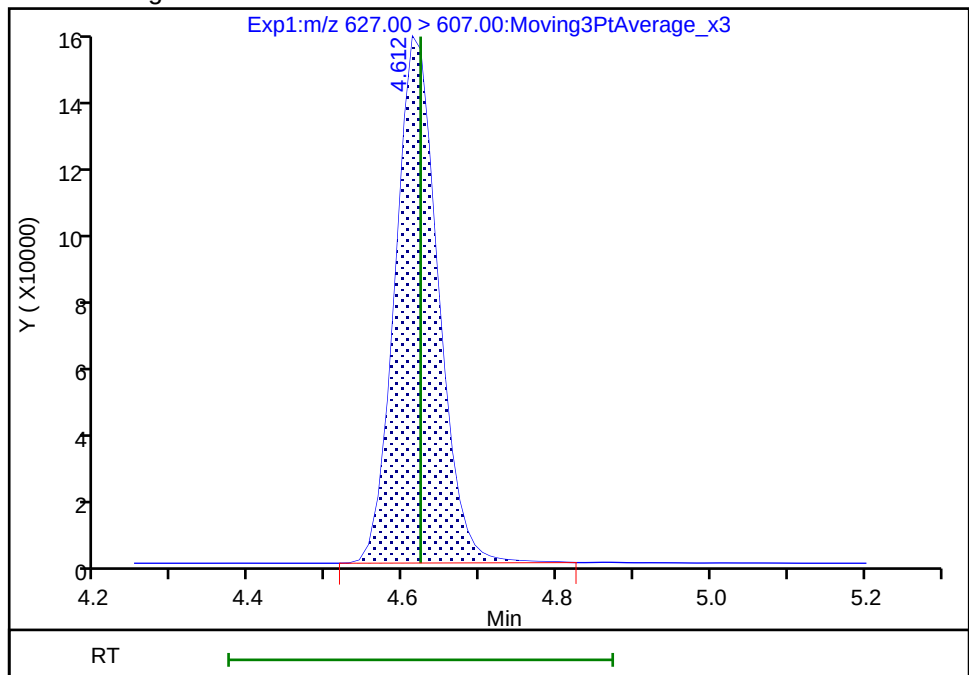
RT: 4.61
Area: 582508
Amount: 3.472856
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 580278
Amount: 3.459561
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

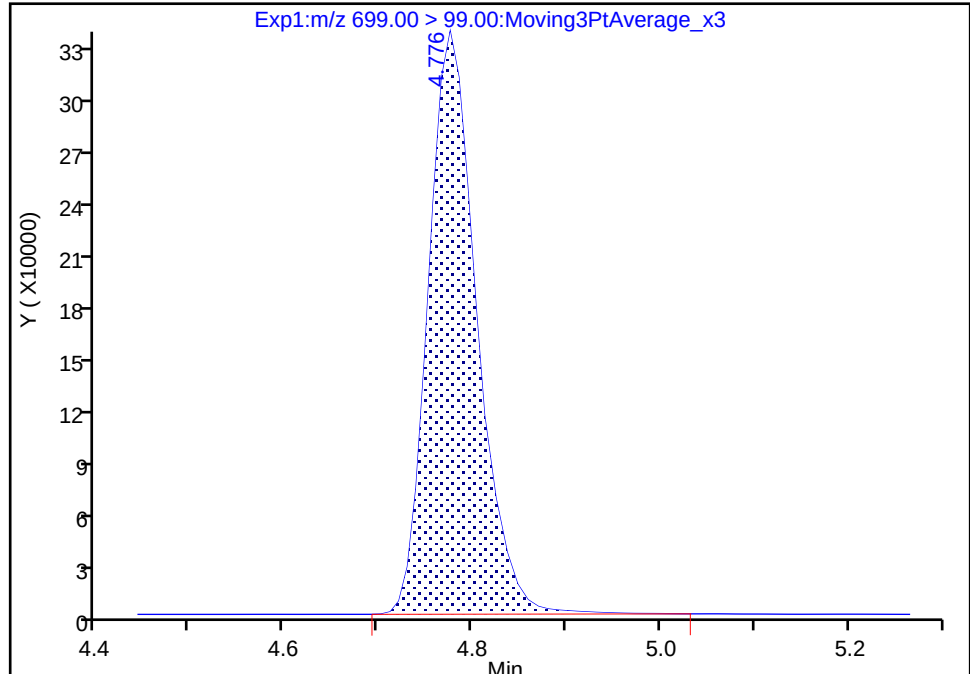
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

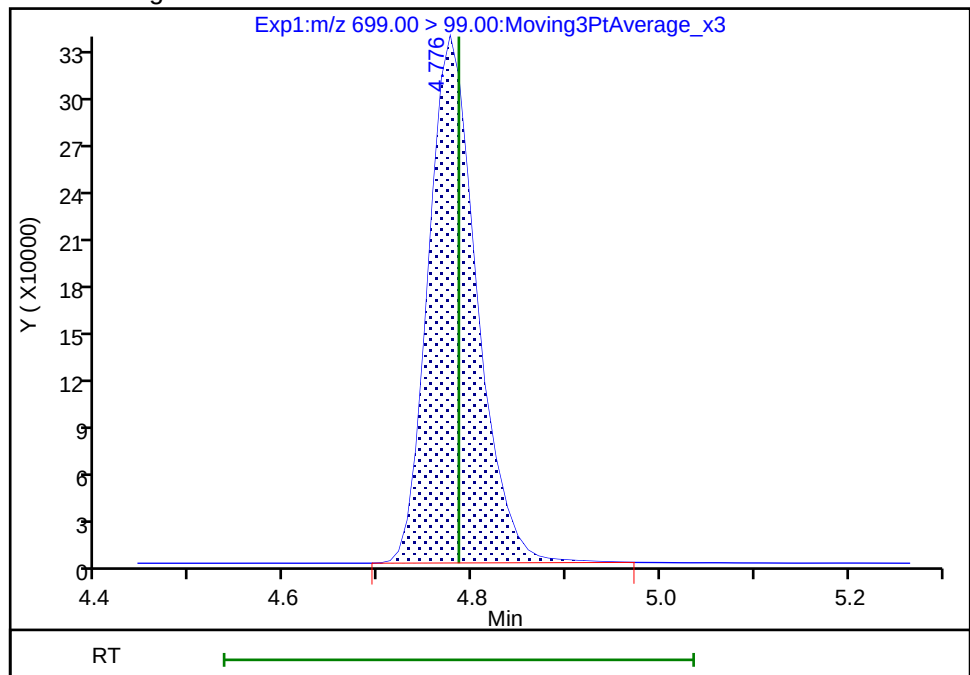
RT: 4.78
Area: 1200868
Amount: 2.544530
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1198035
Amount: 2.540312
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

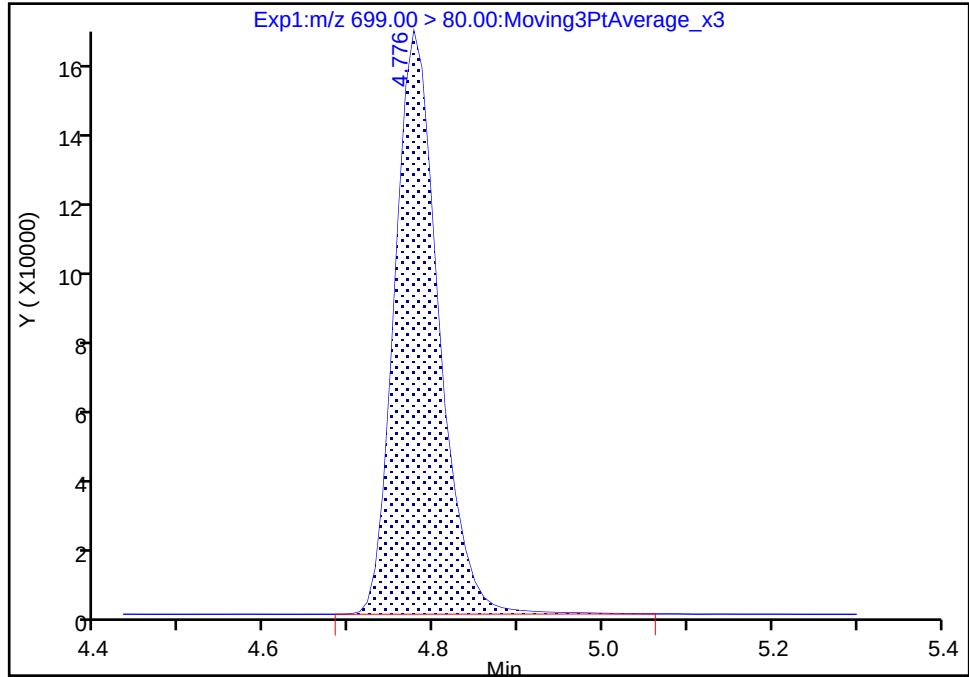
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

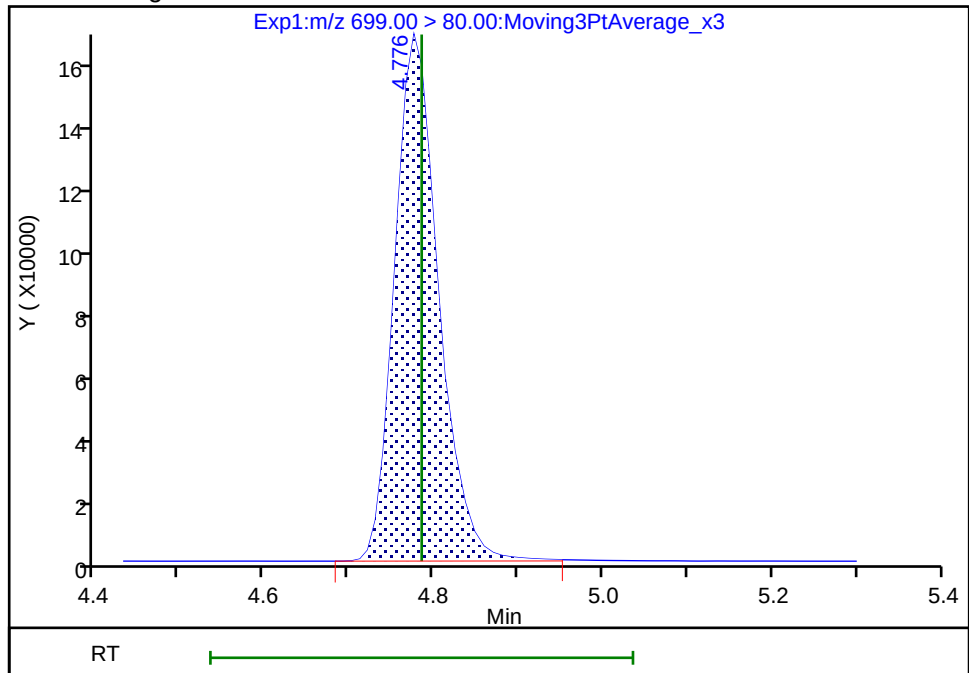
RT: 4.78
Area: 602729
Amount: 2.544530
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 601730
Amount: 2.540312
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 596 of 97811/21/2022
4:10 PM

Eurofins Burlington

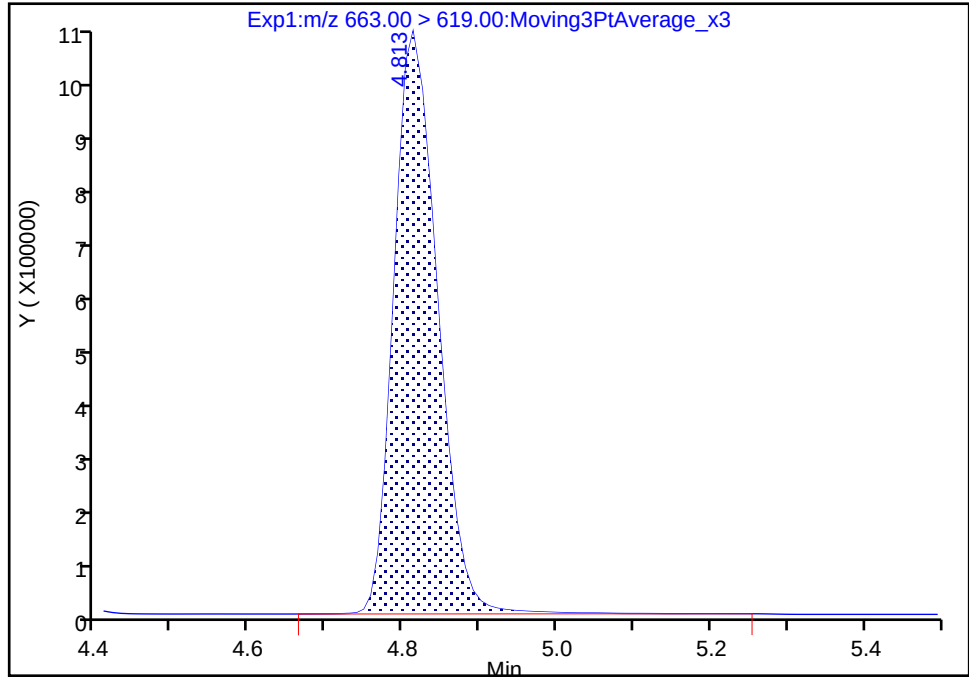
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

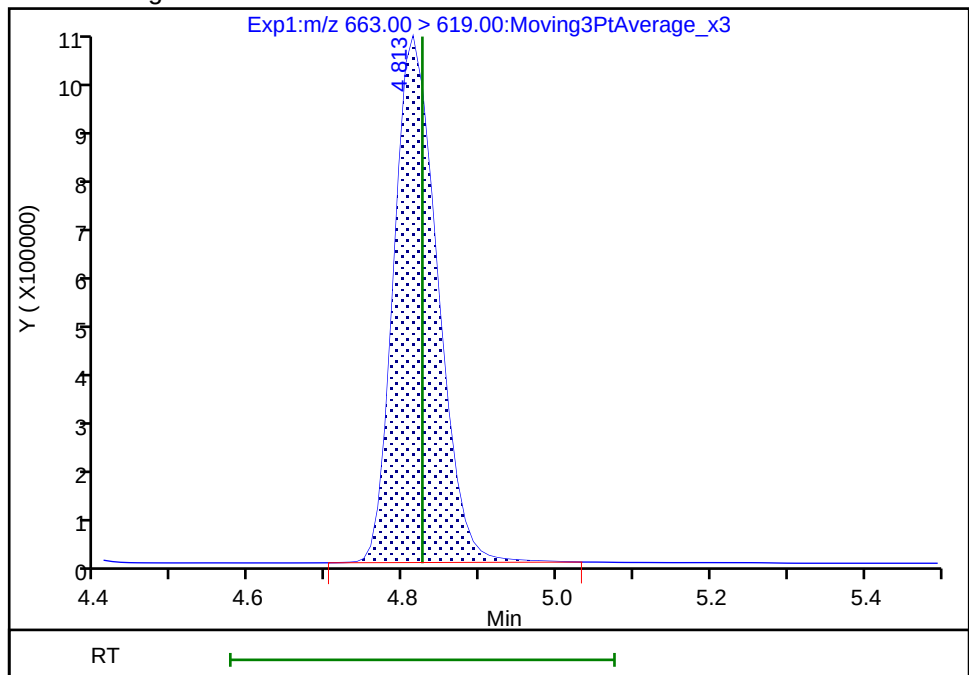
RT: 4.81
Area: 4315235
Amount: 2.377447
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4292255
Amount: 2.364787
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

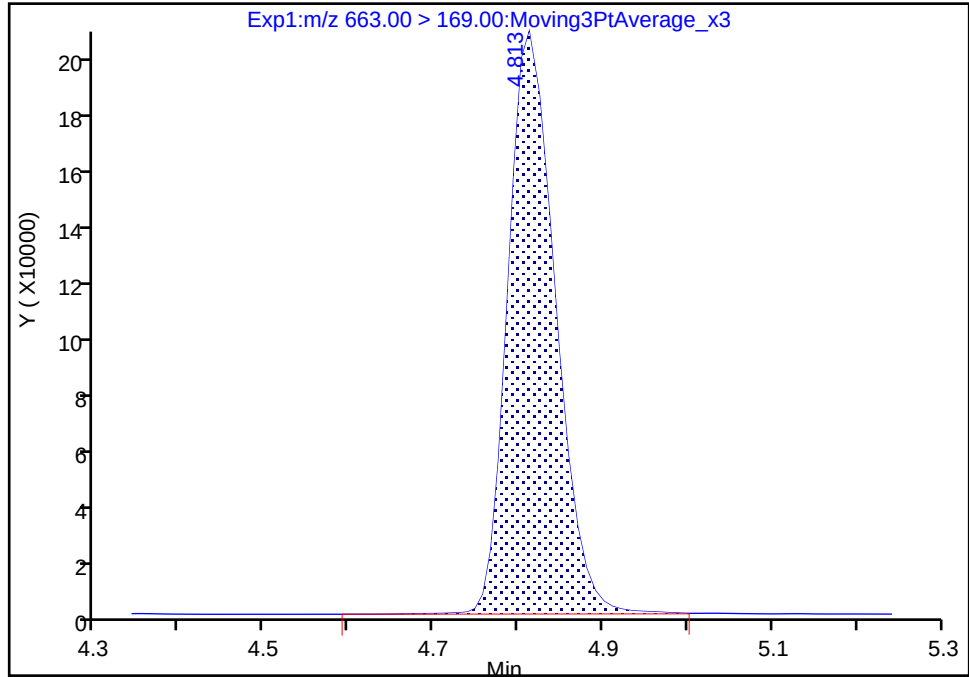
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

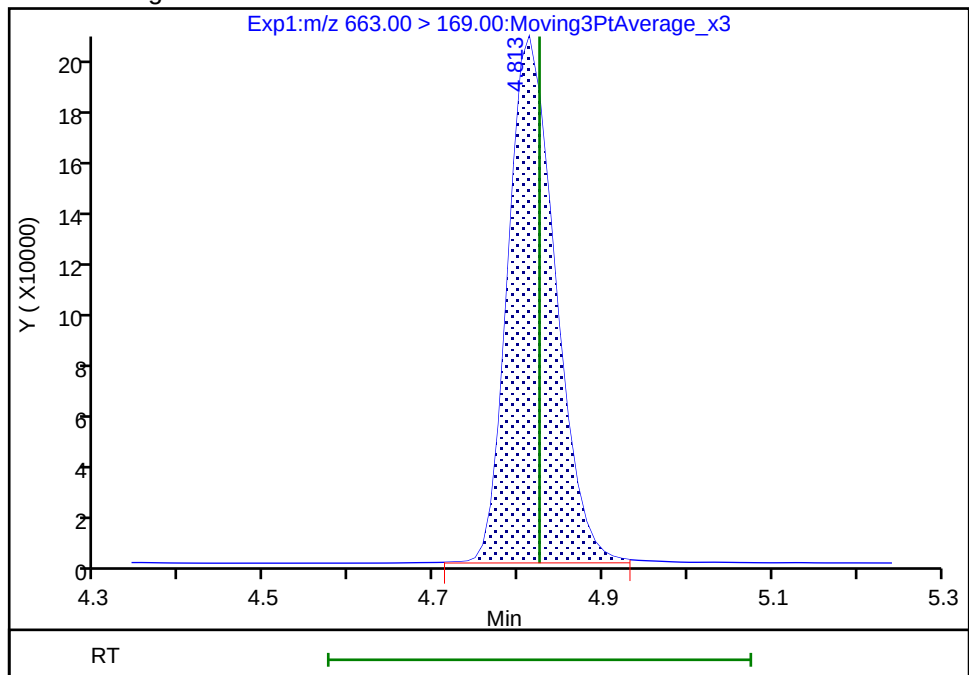
RT: 4.81
Area: 796338
Amount: 2.377447
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 793195
Amount: 2.364787
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 598 of 97811/21/2022
4:10 PM

Eurofins Burlington

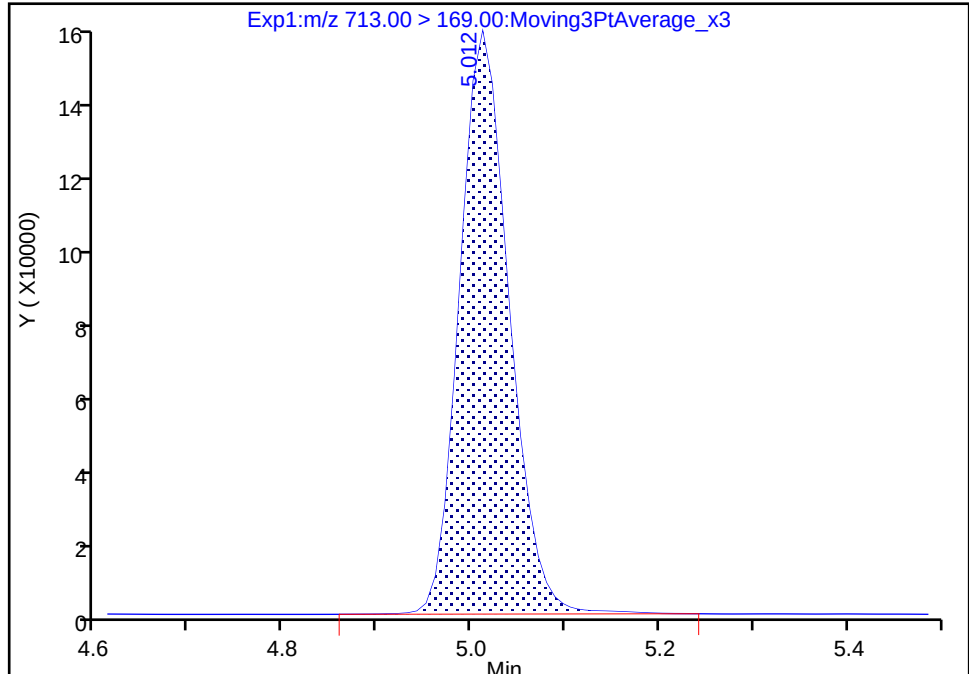
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

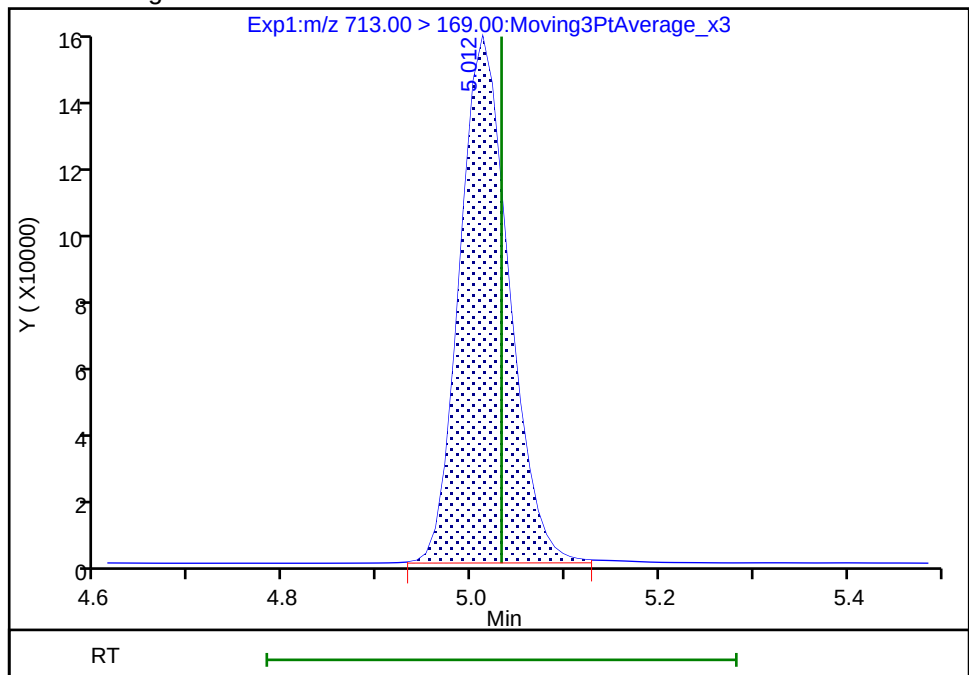
RT: 5.01
Area: 552691
Amount: 2.297561
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 550289
Amount: 2.287576
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:38:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

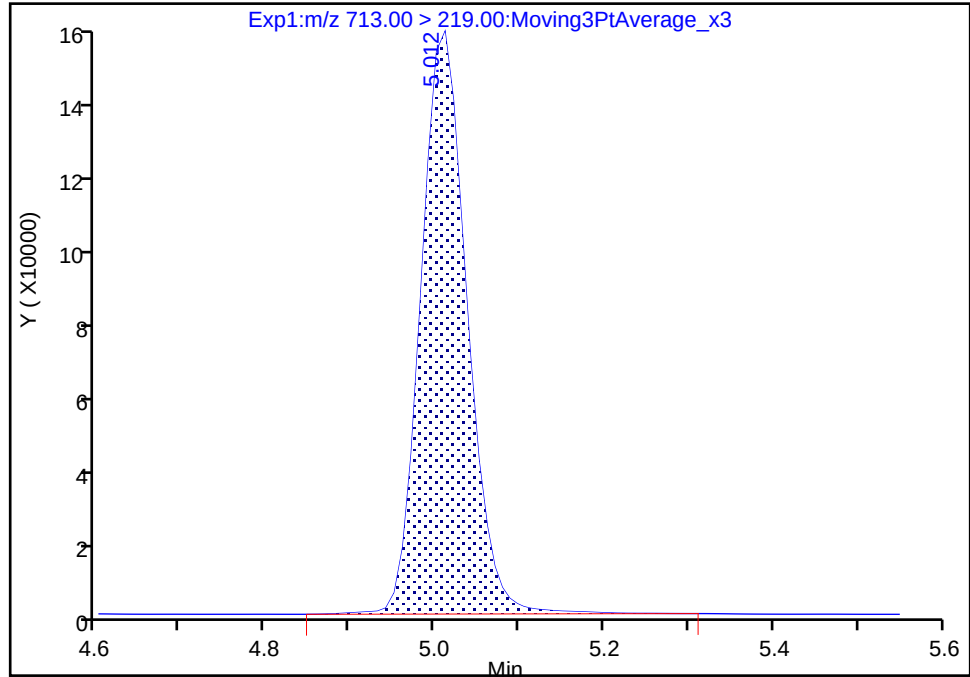
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

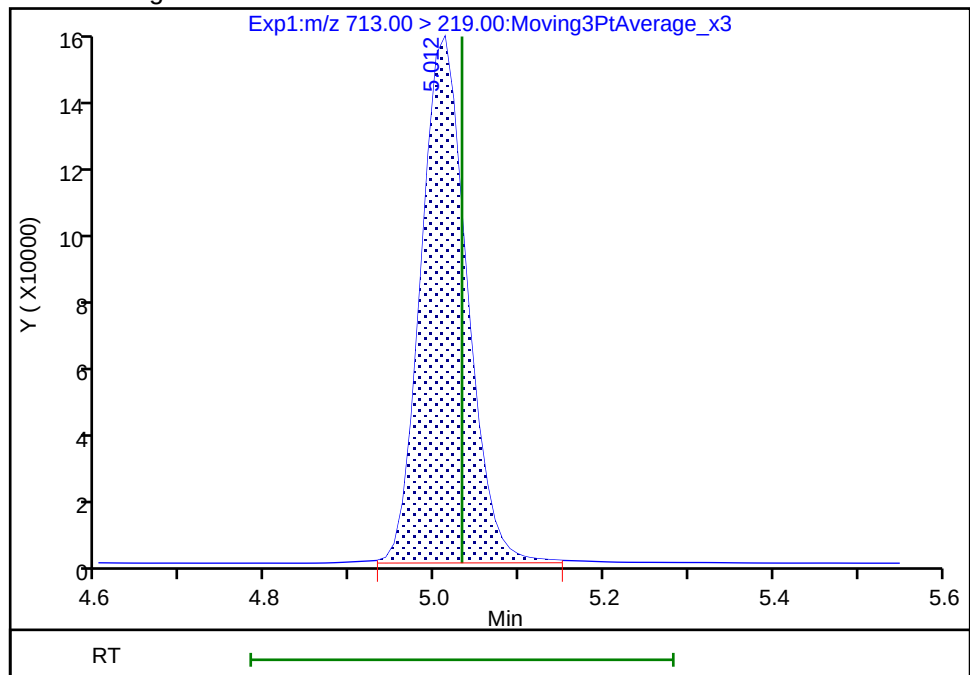
RT: 5.01
Area: 575617
Amount: 2.297561
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 572357
Amount: 2.287576
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:39:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

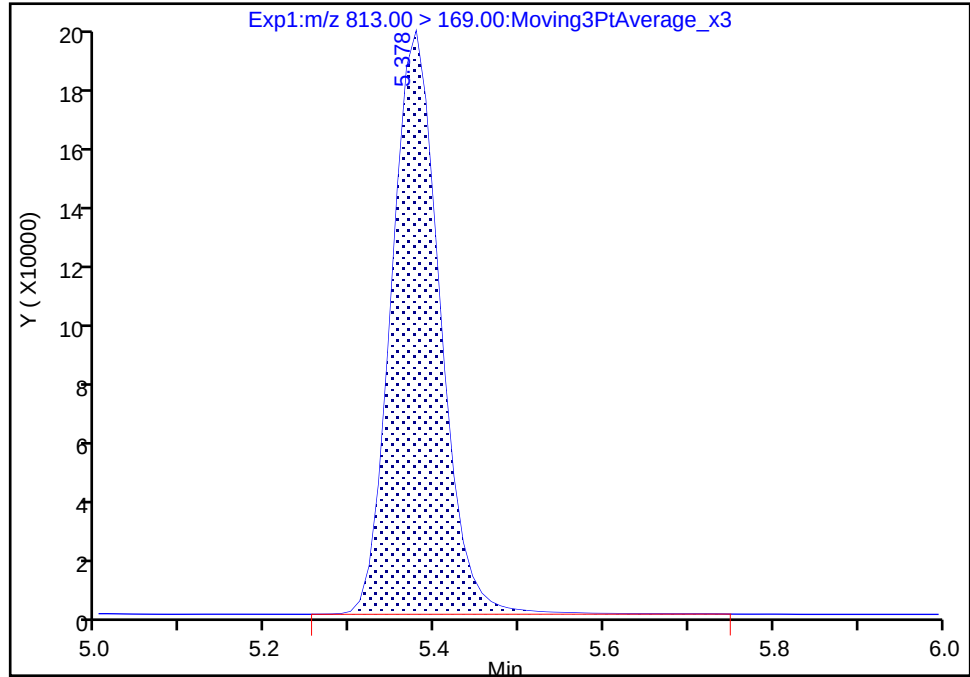
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

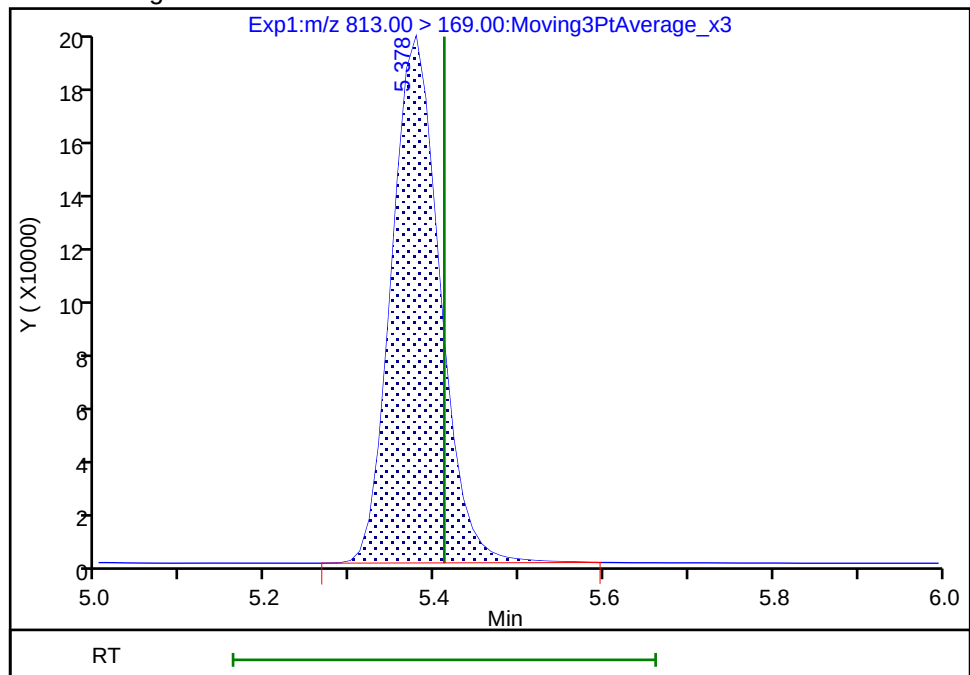
RT: 5.38
Area: 776302
Amount: 2.769725
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 773217
Amount: 2.755402
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:39:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

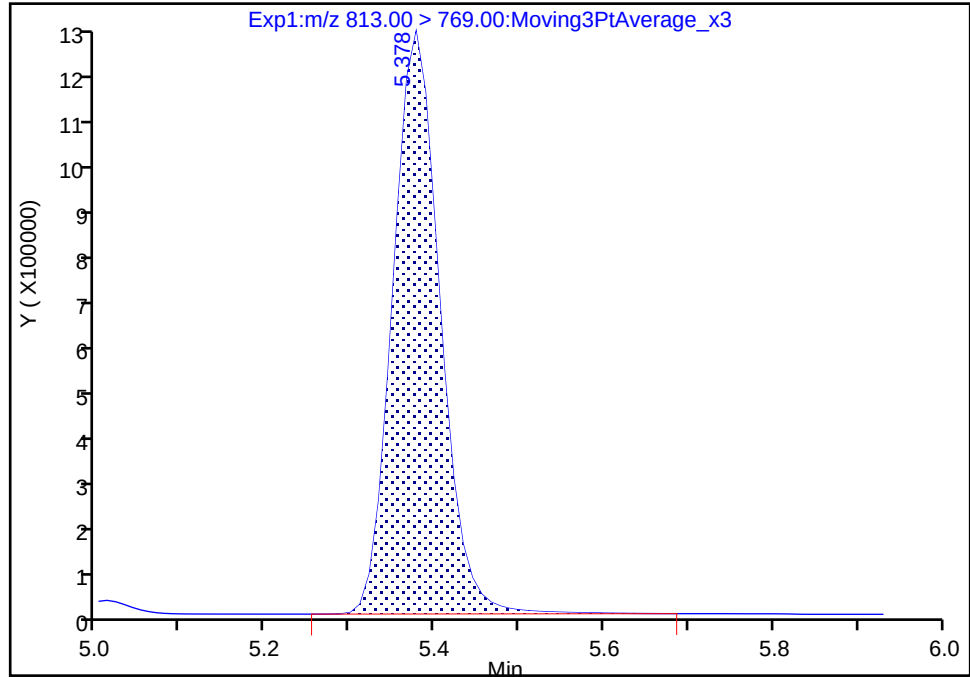
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

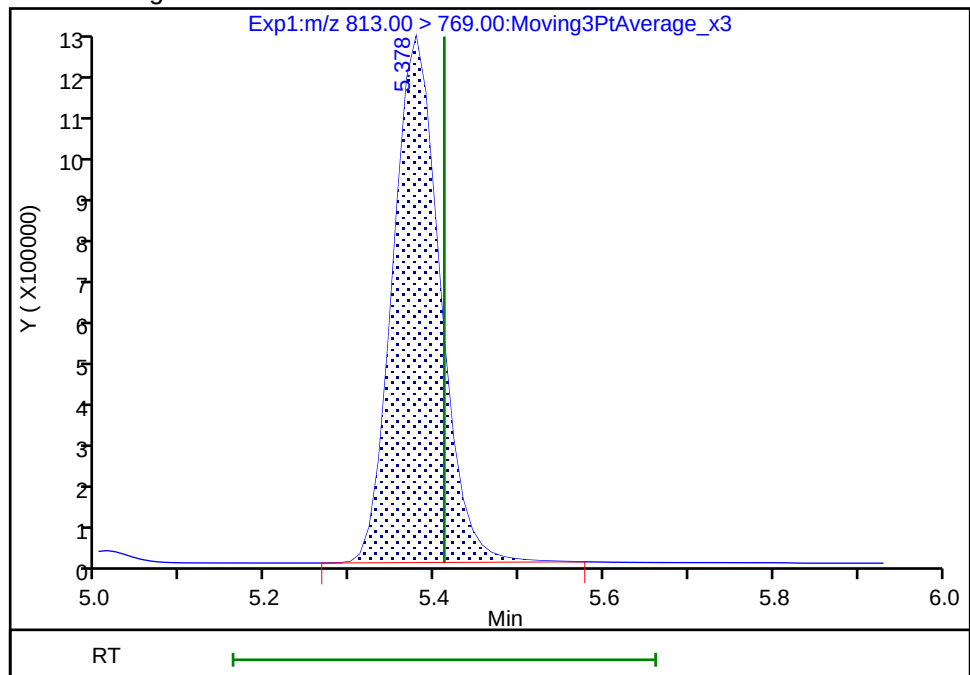
RT: 5.38
Area: 4766923
Amount: 2.769725
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 4742512
Amount: 2.755402
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:39:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

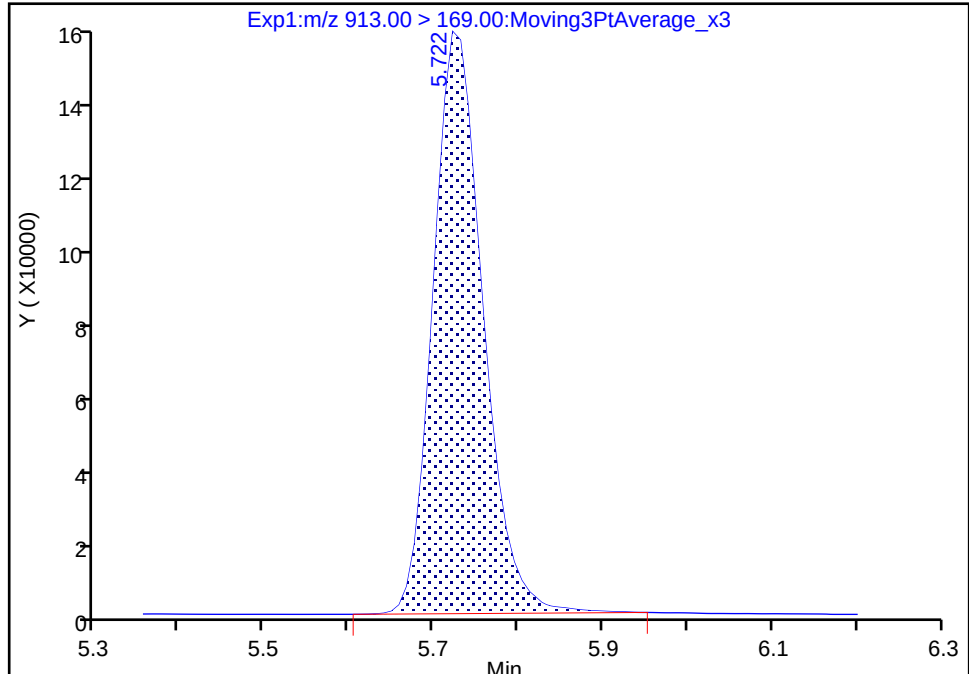
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

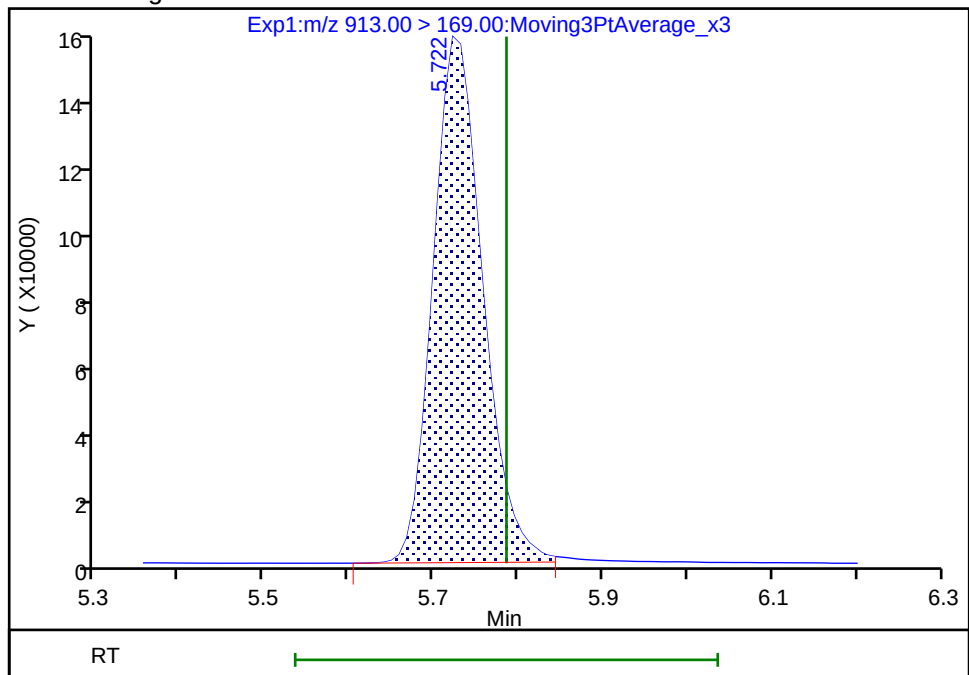
RT: 5.72
Area: 626444
Amount: 2.819630
Amount Units: ng/ml

Processing Integration Results



RT: 5.72
Area: 622946
Amount: 2.769202
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:39:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

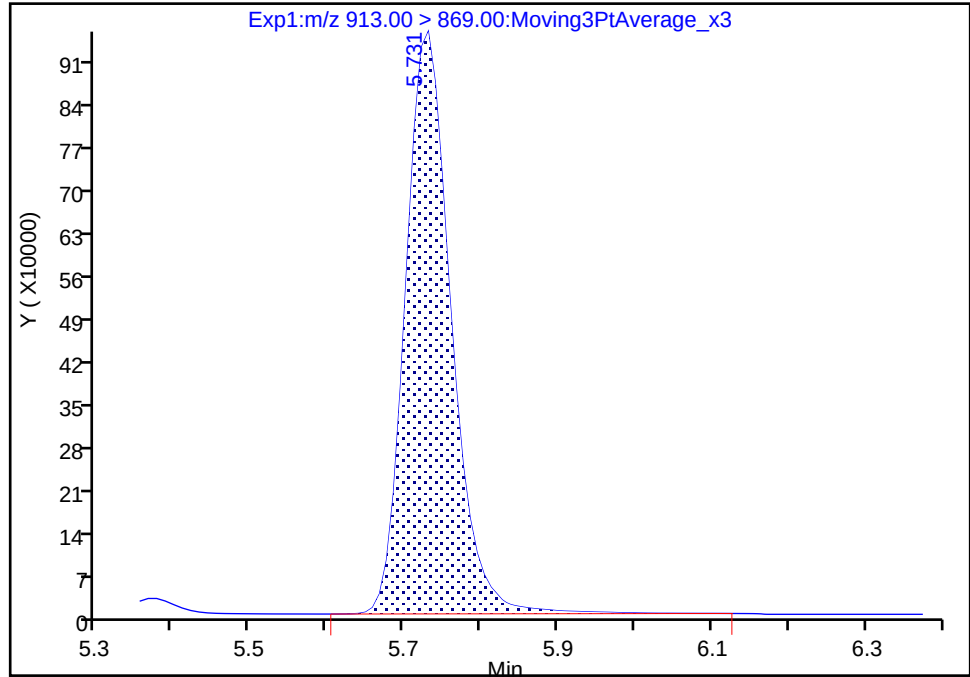
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D01.d
Injection Date: 16-Nov-2022 20:04:36 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

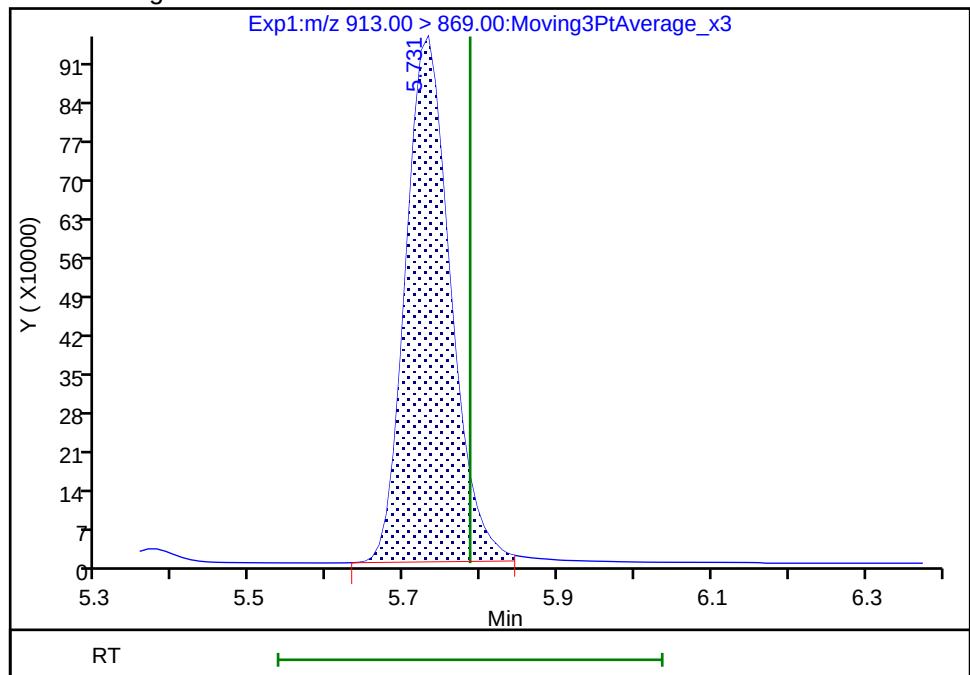
RT: 5.73
Area: 3919696
Amount: 2.819630
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 3849595
Amount: 2.769202
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:39:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: CCV 200-185848/15 Calibration Date: 11/16/2022 21:59

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA221116D15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.012	0.9606		0.949	1.00	-5.1	
Perfluoropentanoic acid (PFPeA)	AveID	1.070	1.069		1.00	1.00	-0.0	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.153	1.079		0.828	0.884	-6.4	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.713	3.001		1.03	0.934	10.6	
Perfluorohexanoic acid (PFHxA)	AveID	1.086	1.054		0.971	1.00	-2.9	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.372	1.313		0.897	0.938	-4.4	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.092	1.114		1.02	1.00	2.0	
Perfluoroheptanoic acid (PFHpA)	AveID	1.114	1.098		0.985	1.00	-1.5	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.163	1.107		0.866	0.910	-4.8	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.558	5.601		0.949	0.942	0.8	
6:2 FTS	AveID	1.822	2.097		1.09	0.948	15.1	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.409	1.331		0.899	0.952	-5.5	
Perfluorooctanoic acid (PFOA)	AveID	1.132	1.059		0.936	1.00	-6.4	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.195		0.913	0.928	-1.6	
Perfluorononanoic acid (PFNA)	AveID	1.050	1.046		0.997	1.00	-0.3	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.438	2.750		1.05	0.932	12.8	
Perfluorononanesulfonic acid (PFNS)	AveID	0.8853	0.8861		0.961	0.960	0.0	
8:2 FTS	AveID	1.239	1.602		1.24	0.958	29.3	
Perfluorodecanoic acid (PFDA)	AveID	1.075	1.011		0.940	1.00	-6.0	
Perfluorooctanesulfonamide (FOSA)	AveID	1.010	0.996		0.986	1.00	-1.4	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9248	0.9433		1.02	1.00	2.0	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6900	0.7267		1.02	0.964	5.3	
Perfluoroundecanoic acid (PFUnA)	AveID	1.043	1.021		0.978	1.00	-2.2	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9137	0.9087		0.995	1.00	-0.5	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	3.172	4.118		1.22	0.942	29.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.069	1.080		1.01	1.00	1.1	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.6729	0.9459		1.36	0.964	40.6	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2805	0.2820		0.973	0.968	0.6	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Lab Sample ID: CCV 200-185848/15 Calibration Date: 11/16/2022 21:59
 Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14
 Lab File ID: PA221116D15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9793	1.033		1.06	1.00	5.5	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1555	0.1377		0.885	1.00	-11.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9655		1.06	1.00	6.2	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7228	0.7927		1.10	1.00	9.7	
13C4 PFBA	Ave	1.220	1.125		1.15	1.25	-7.8	
13C5 PFPeA	Ave	0.9597	0.8332		1.09	1.25	-13.2	
13C3 PFBS	Ave	0.9722	0.9086		1.09	1.16	-6.5	
M2-4:2 FTS	Ave	0.0881	0.0823		1.09	1.17	-6.6	
13C2 PFHxA	Ave	0.9758	0.8794		1.13	1.25	-9.9	
13C3 HFPO-DA	Ave	0.1832	0.1533		1.05	1.25	-16.3	
13C4 PFHpA	Ave	0.9588	0.9140		1.19	1.25	-4.7	50.0
18O2 PFHxS	Ave	0.6942	0.6429		1.10	1.18	-7.4	50.0
M2-6:2 FTS	Ave	0.1186	0.1164		1.17	1.19	-1.8	
13C4 PFOA	Ave	1.025	1.028		1.25	1.25	0.3	50.0
13C4 PFOS	Ave	0.4574	0.4465		1.17	1.20	-2.4	50.0
13C5 PFNA	Ave	1.009	0.9676		1.20	1.25	-4.1	50.0
13C2 PFDA	Ave	0.9801	1.082		1.38	1.25	10.4	
M2-8:2 FTS	Ave	0.1402	0.1375		1.18	1.20	-1.9	
13C8 FOSA	Ave	0.7983	0.7973		1.25	1.25	-0.1	
d3-NMeFOSAA	Ave	0.1380	0.1973		1.79	1.25	43.0	
13C2 PFUnA	Ave	0.8025	0.9119		1.42	1.25	13.6	
d5-NEtFOSAA	Ave	0.1370	0.1955		1.78	1.25	42.8	
13C2 PFDoA	Ave	0.7827	0.9191		1.47	1.25	17.4	
13C2 PFTeDA	Ave	0.6687	0.8442		1.58	1.25	26.2	
13C2 PFHxDA	Ave	0.7383	0.9747		1.65	1.25	32.0	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2022 21:59:15 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0053360-015 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:19:16 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:07:41

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.069	2.068	0.0	0.599	2942748	1.15		92.2	9644	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.076	0.001	1.004	2261381	0.9488		94.9	181	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.378	2.373	0.005	0.689	2179212	1.09		86.8	3387	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.378	2.373	0.005	1.000	1864395	1.00		100.0	48.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.391	2.386	0.005	0.692	2210094	1.09		93.5	363001	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.404	2.400	0.004	1.006	1813926	0.8276	Target=2.19	93.6	1643	M
298.90 > 99.00	2.404	2.400	0.004	1.006	879587		2.06(1.09-3.28)		639	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.696	2.689	0.007	1.000	482811	1.03		111	2474	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.696	2.689	0.007	0.781	201121	1.09		93.4	199	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.733	2.725	0.008	0.791	2299940	1.13		90.1	3781	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.733	2.725	0.008	1.000	1940084	0.9712	Target=13.67	97.1	335	M
313.00 > 119.00	2.733	2.725	0.008	1.000	134526		14.42(6.83-20.50)		189	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.733	2.725	0.008	0.883	1656166	0.8971	Target=3.00	95.6	2578	
349.00 > 99.00	2.733	2.725	0.008	0.883	545716		3.03(1.50-4.51)		1105	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.830	2.823	0.007	0.820	401018	1.05		83.7	1386	

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	2.830	2.823	0.007	1.000	357406	1.02		102	1578	
D 11 18O2 PFHxS										
403.00 > 84.00	3.094	3.088	0.006	0.896	1590603	1.10		92.6	3473	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.094	3.088	0.006	1.000	1354861	0.8659	Target=3.60	95.2	1066	M
399.00 > 99.00	3.094	3.088	0.006	1.000	376988		3.59(1.80-5.40)		492	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.094	3.088	0.006	0.896	2390522	1.19		95.3	5453	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.094	3.088	0.006	1.000	2100117	0.9853	Target=3.76	98.5	427	M
363.00 > 169.00	3.094	3.088	0.006	1.000	501264		4.19(1.88-5.65)		792	M
77 DONA										
377.00 > 251.00	3.138	3.121	0.017	0.832	4929489	0.9493	Target=3.10	101	4887	
377.00 > 85.00	3.138	3.121	0.017	0.832	1546324		3.19(1.55-4.65)		1574	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.435	3.430	0.005	0.911	1183753	0.8993	Target=5.32	94.5	1291	M
449.00 > 99.00	3.435	3.430	0.005	0.911	230365		5.14(2.66-7.97)		817	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.435	3.430	0.005	0.995	289222	1.17		98.2	623	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.435	3.430	0.005	1.000	484168	1.09		115	661	M
D 14 13C4 PFOA										
417.00 > 372.00	3.453	3.439	0.014	1.000	2688628	1.25		100	4310	
* 62 13C2 PFOA										
415.00 > 370.00	3.453	3.439	0.014		2615467	1.25			5619	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.453	3.439	0.014	1.000	2278636	0.9359	Target=2.73	93.6	160	
413.00 > 169.00	3.453	3.439	0.014	1.000	799449		2.85(1.37-4.10)		959	M
D 18 13C4 PFOS										
503.00 > 80.00	3.770	3.764	0.006	1.092	1116453	1.17		97.6	2652	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.770	3.764	0.006	1.000	1036465	0.9131	Target=5.09	98.4	244	M
499.00 > 99.00	3.770	3.764	0.006	1.000	202500		5.12(2.55-7.64)		156	M
D 19 13C5 PFNA										
468.00 > 423.00	3.779	3.783	-0.004	1.095	2530710	1.20		95.9	6148	
20 Perfluorononanoic acid										
463.00 > 419.00	3.789	3.783	0.006	1.003	2118683	1.00	Target=7.76	99.7	469	
463.00 > 169.00	3.789	3.783	0.006	1.003	243014		8.72(3.88-11.63)		2072	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.937	3.928	0.009	1.044	2394888	1.05		113	6379	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.060	4.061	-0.001	1.077	794705	0.9609	Target=2.67	100	2278	M
549.00 > 99.00	4.060	4.061	-0.001	1.077	315697		2.52(1.34-4.01)		1975	
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.093	-0.001	1.185	2829944	1.38		110	9728	

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	4.092	4.093	-0.001	1.000	2288662	0.9401	Target=9.83	94.0	842	
513.00 > 169.00	4.092	4.093	-0.001	1.000	231907		9.87(4.91-14.74)		418	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.093	-0.001	1.185	344534	1.17		98.1	956	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.093	-0.001	1.000	441613	1.24		129	1724	M
D 21 13C8 FOSA										
506.00 > 78.00	4.149	4.138	0.011	1.202	2085342	1.25		99.9	3495	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.149	4.138	0.011	1.000	1660887	0.9858		98.6	1545	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.227	4.228	-0.001	1.224	515999	1.79		143	732	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.237	4.238	-0.001	1.002	389376	1.02		102	560	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.330	4.331	-0.001	1.149	654456	1.02	Target=2.59	105	2279	M
599.00 > 99.00	4.330	4.331	-0.001	1.149	239114		2.74(1.30-3.89)		1526	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.364	4.365	-0.001	1.264	2385065	1.42		114	3640	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.352	4.365	-0.013	0.997	1947266	0.9784	Target=9.68	97.8	812	
563.00 > 169.00	4.352	4.365	-0.013	0.997	199000		9.79(4.84-14.53)		1029	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.364	4.376	-0.012	1.264	511402	1.78		143	1267	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.375	4.376	-0.001	1.003	371775	0.99		99.5	1148	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.453	4.465	-0.012	1.181	3623989	1.22		130	5301	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.602	-0.001	1.332	2403823	1.47		117	6678	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.602	-0.001	1.000	2077504	1.01	Target=6.96	101	140	M
613.00 > 169.00	4.601	4.602	-0.001	1.000	279918		7.42(3.48-10.43)		2047	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.611	4.622	-0.011	1.127	262355	1.36		141	1533	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.775	4.785	-0.010	1.267	255071	0.9734	Target=0.52	101	1557	M
699.00 > 99.00	4.775	4.785	-0.010	1.267	507848		0.50(0.26-0.78)		1856	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.812	4.825	-0.013	1.046	1986972	1.06	Target=4.85	106	139	M
663.00 > 169.00	4.812	4.825	-0.013	1.046	360272		5.52(2.42-7.27)		1324	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.011	5.032	-0.021	1.451	2207895	1.58		126	8402	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.011	5.032	-0.021	1.000	243245	0.8854	Target=0.99	88.5	1144	M
713.00 > 219.00	5.011	5.032	-0.021	1.000	267280		0.91(0.49-1.48)		917	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	5.377	5.400	-0.023	1.557	2549391	1.65		132	4664	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.411	-0.034	1.000	1969190	1.06	Target=4.99	106	166	M
813.00 > 169.00	5.377	5.411	-0.034	1.000	352390		5.59(2.49-7.48)		1582	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.730	5.786	-0.056	1.066	1616658	1.10	Target=4.90	110	169	M
913.00 > 169.00	5.730	5.786	-0.056	1.066	257887		6.27(2.45-7.35)		671	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00034

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d

Injection Date: 16-Nov-2022 21:59:15

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

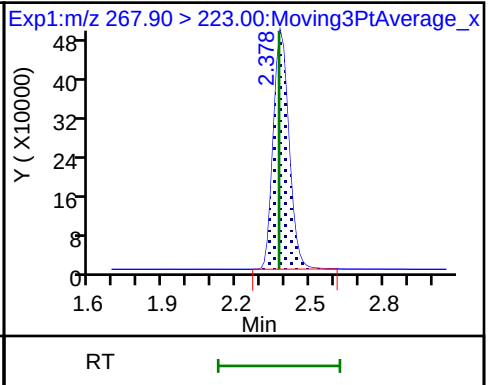
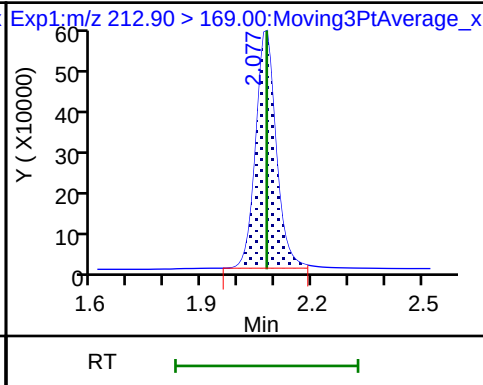
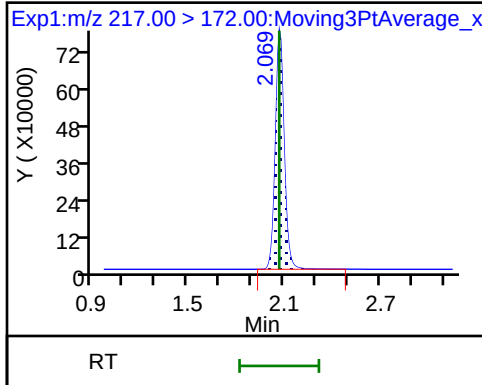
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

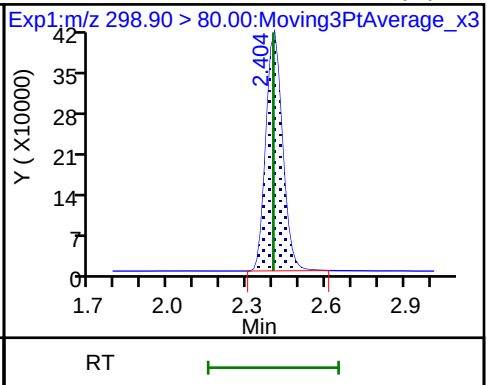
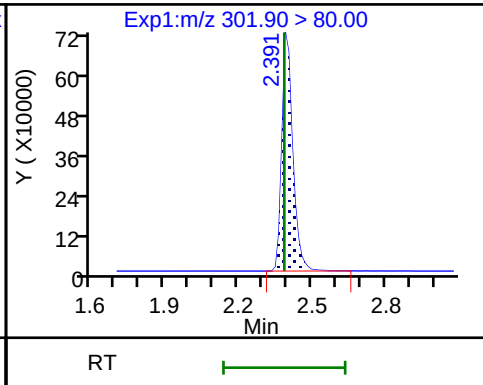
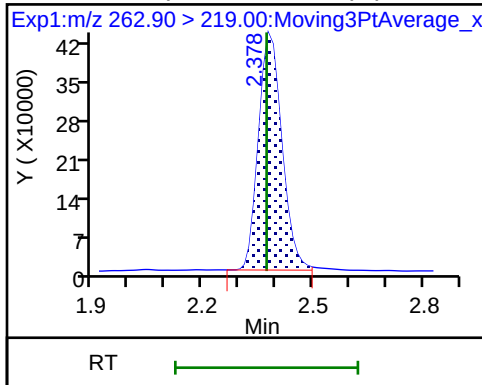
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

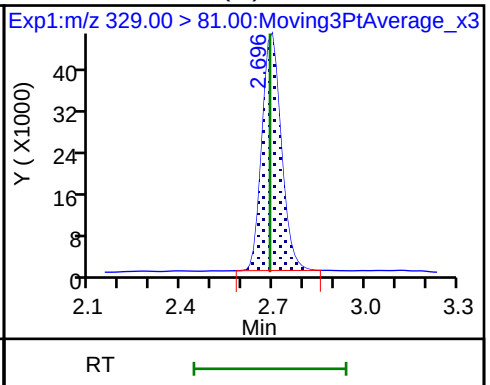
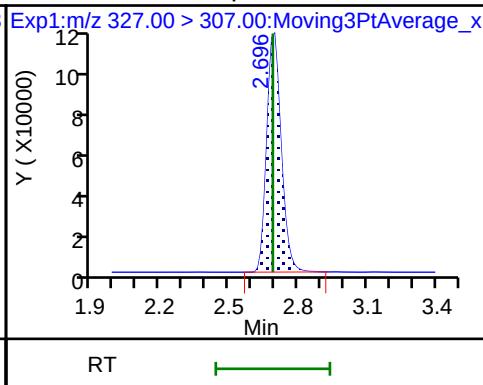
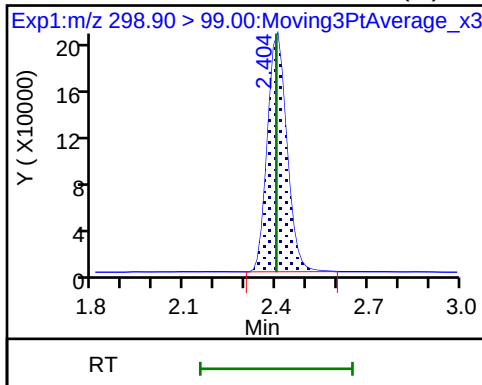
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

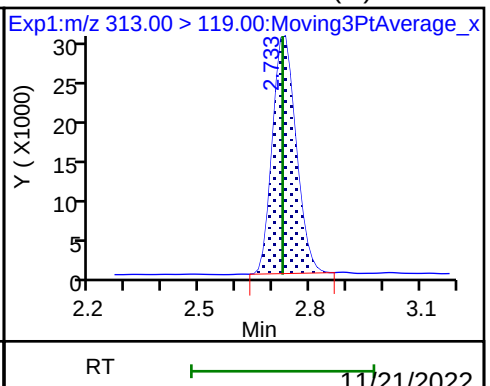
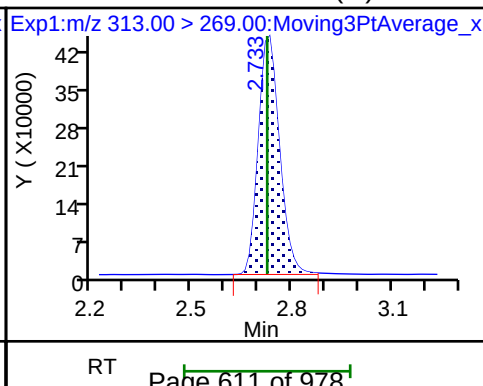
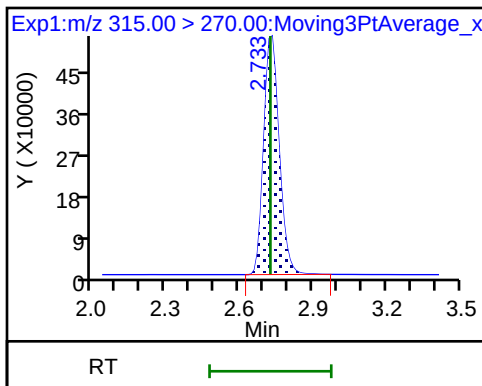
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

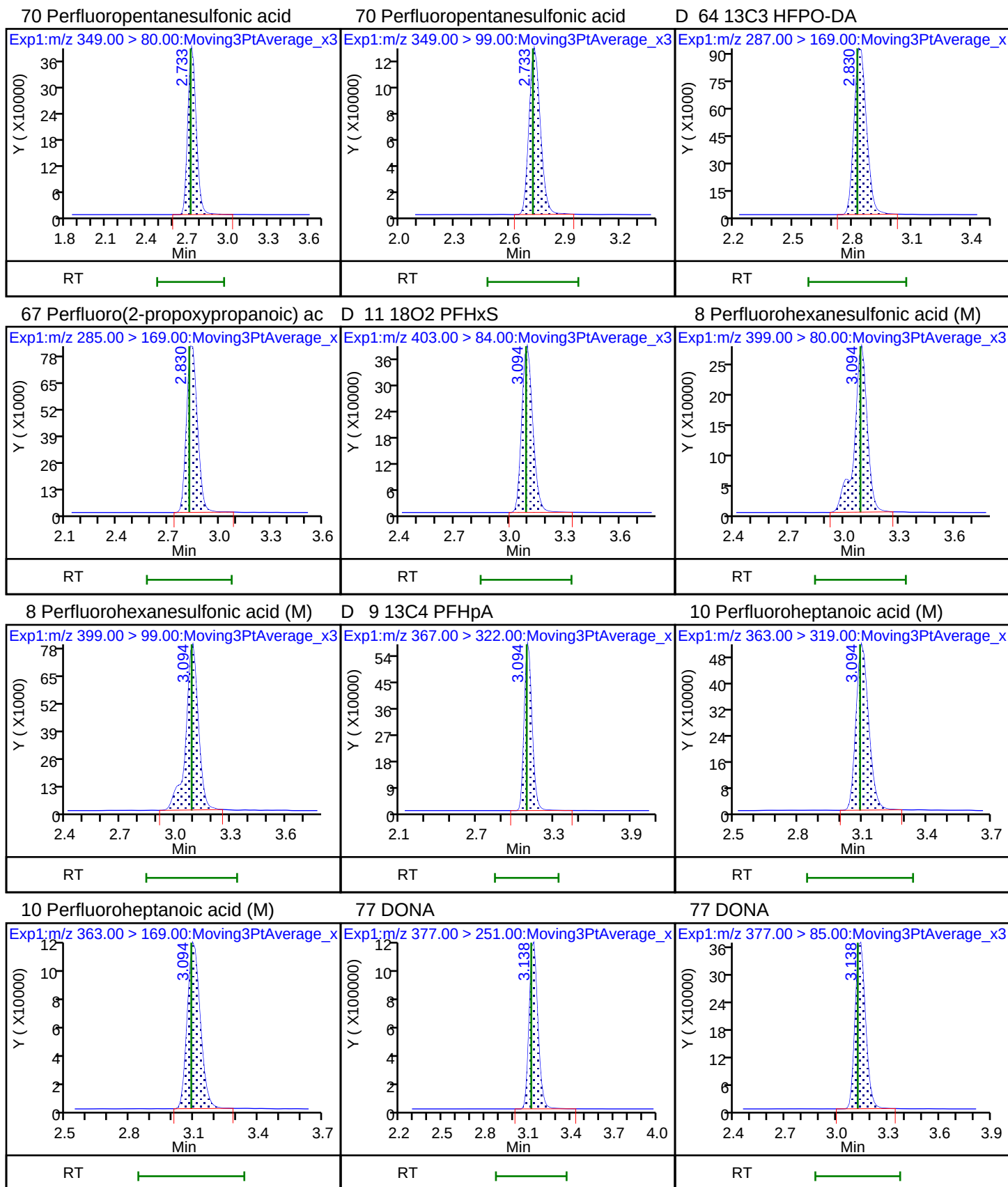


D 7 13C2 PFHxA

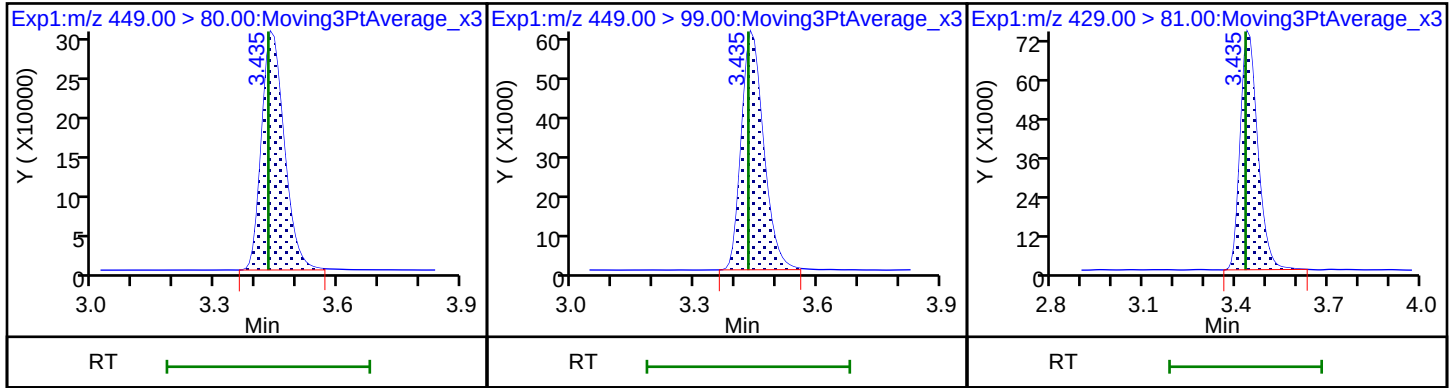
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

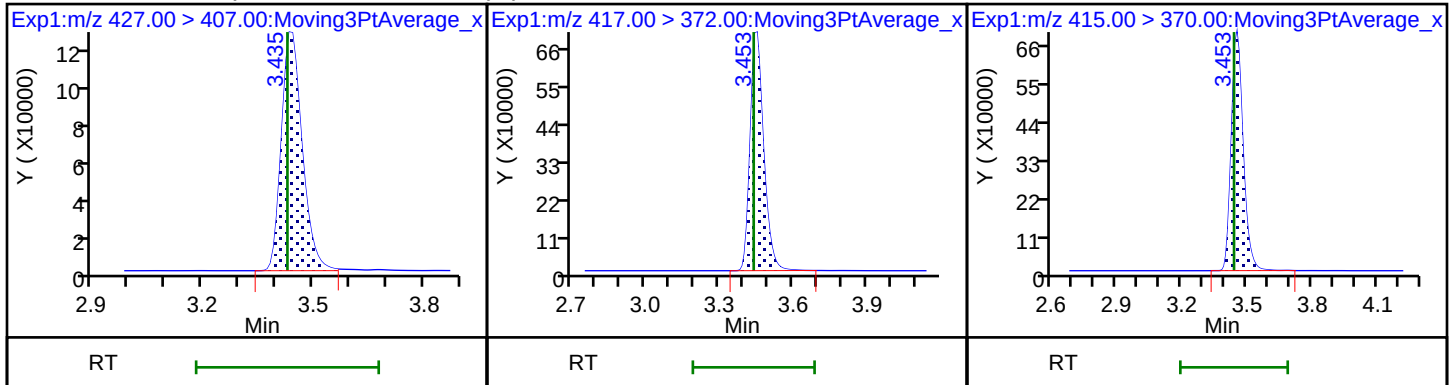




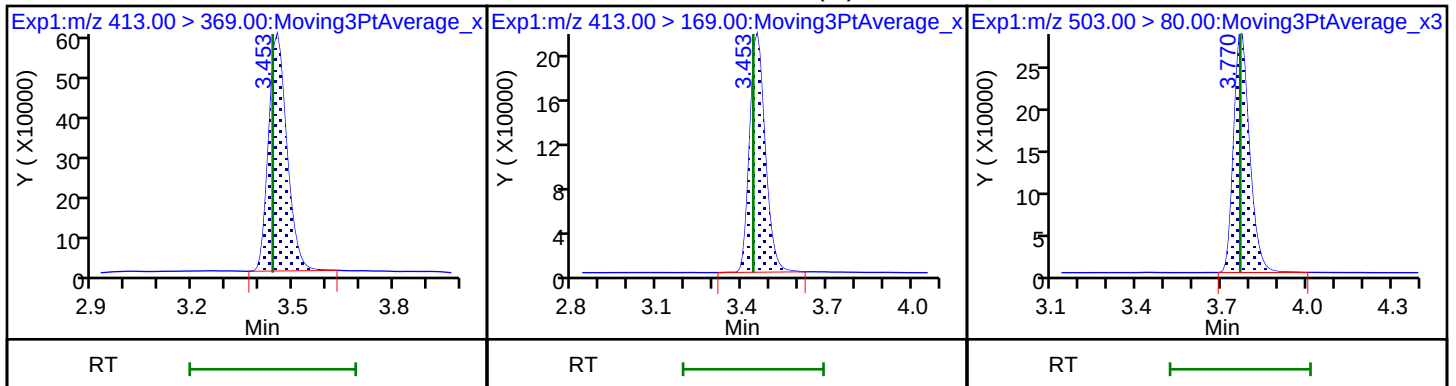
16 Perfluoroheptanesulfonic acid (M) 16 Perfluoroheptanesulfonic acid (M) D 12 M2-6:2 FTS



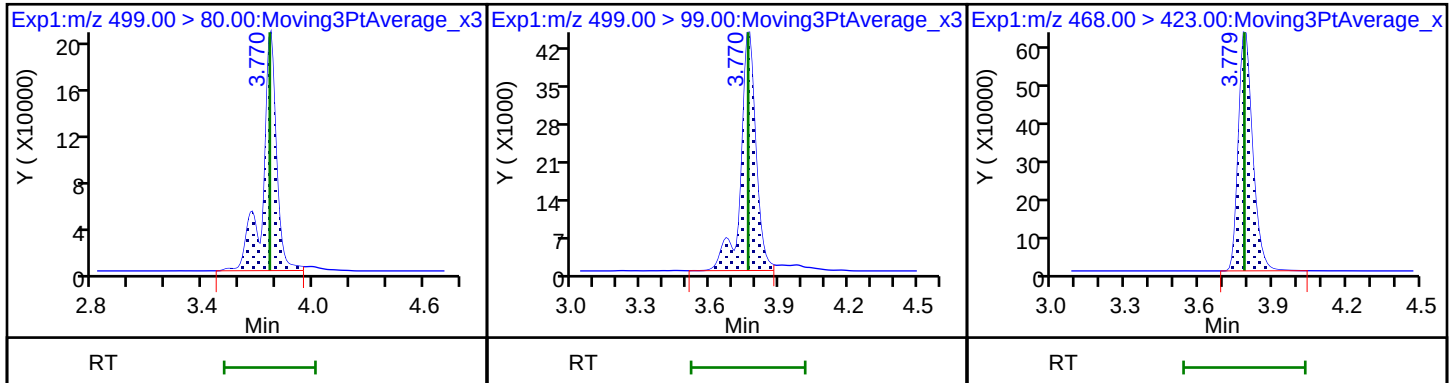
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA * 62 13C2 PFOA

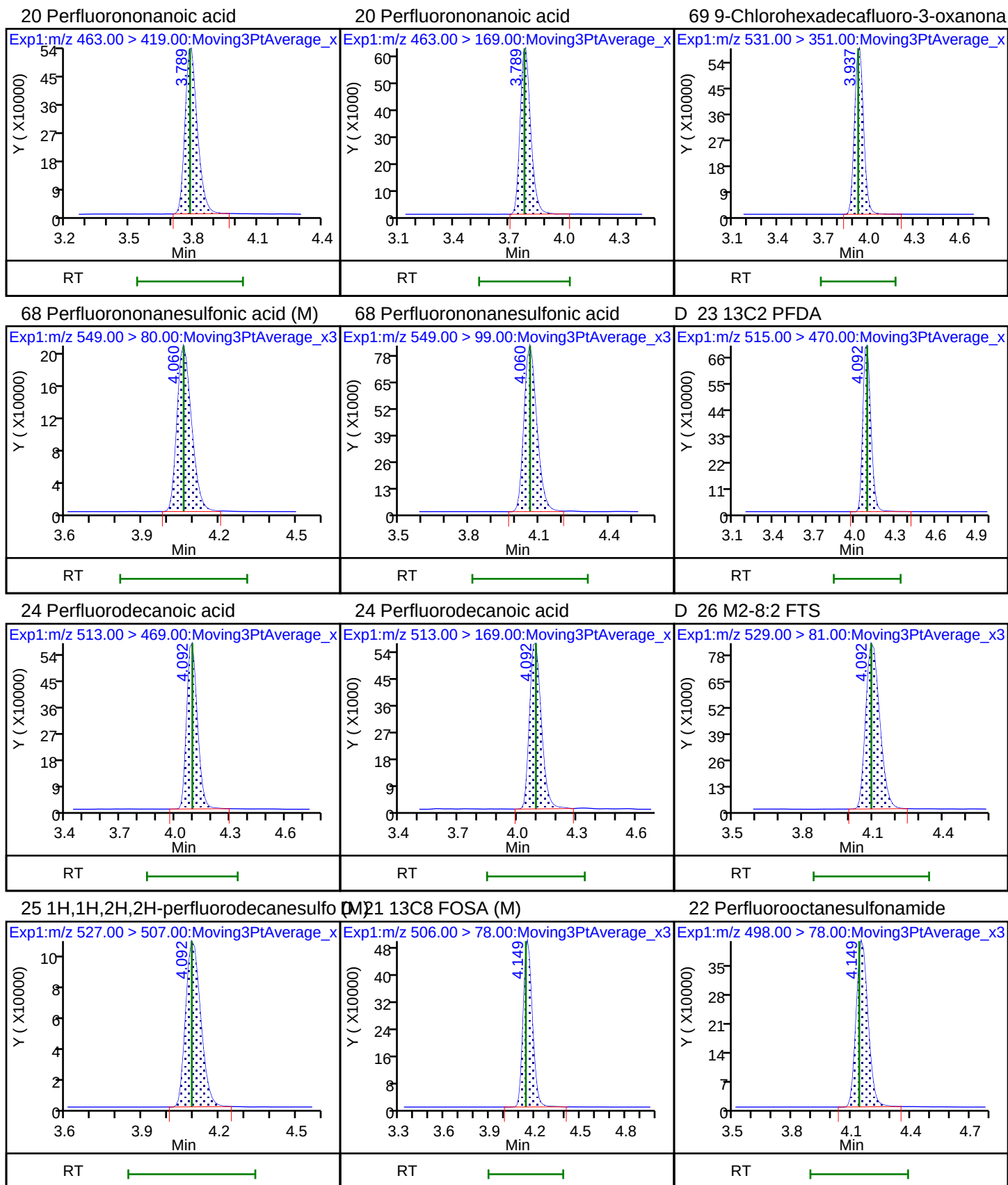


15 Perfluorooctanoic acid 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA

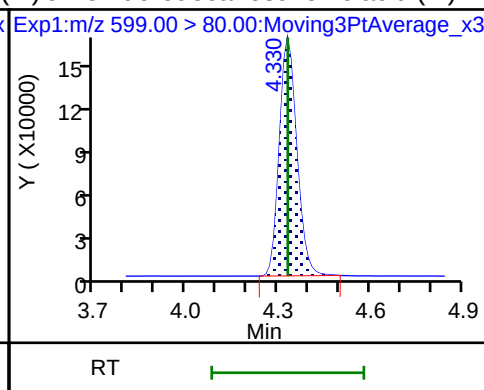
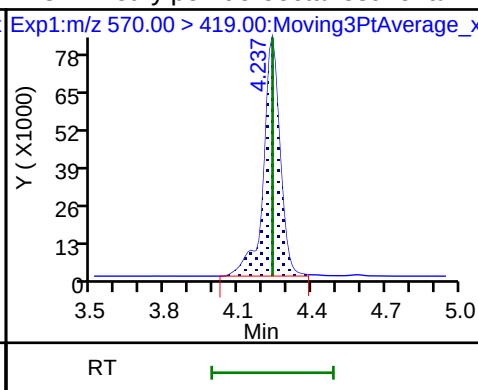
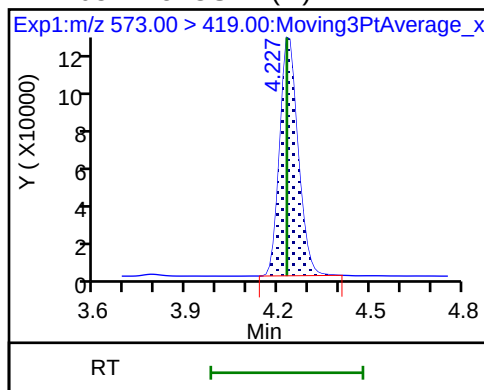




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

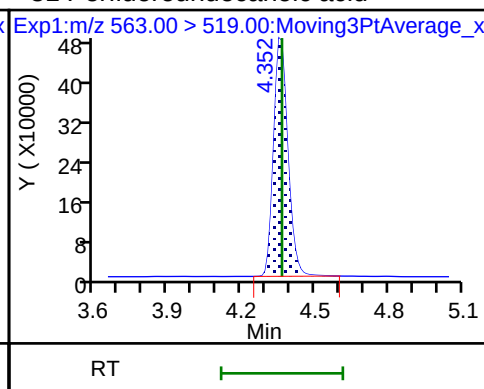
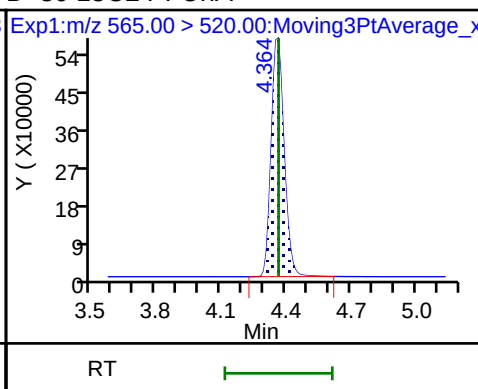
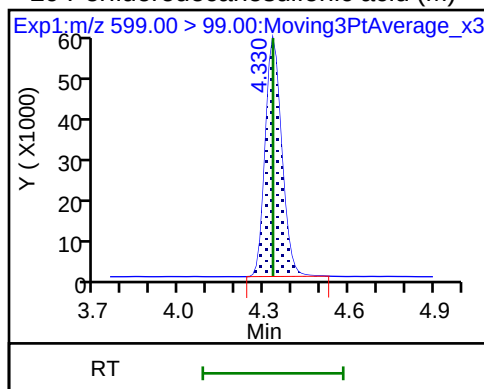
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

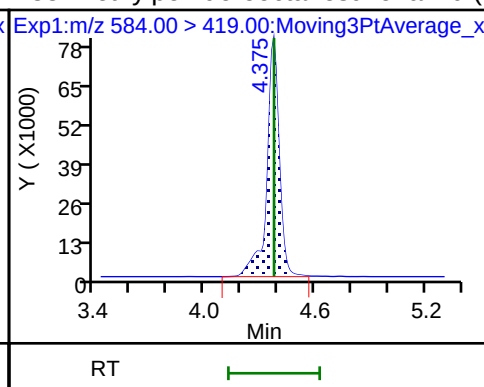
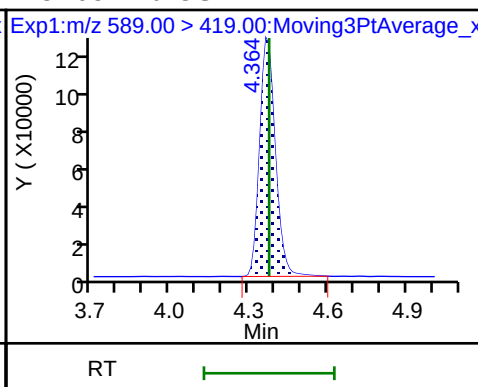
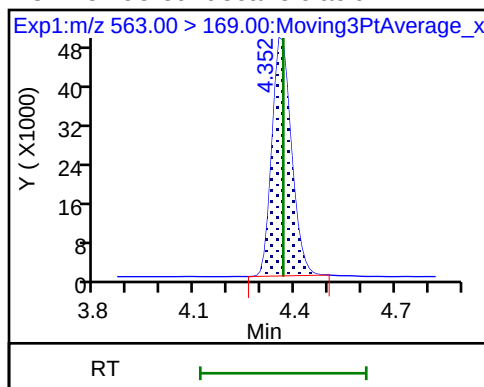
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

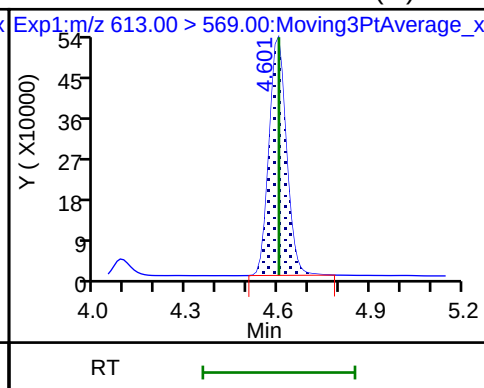
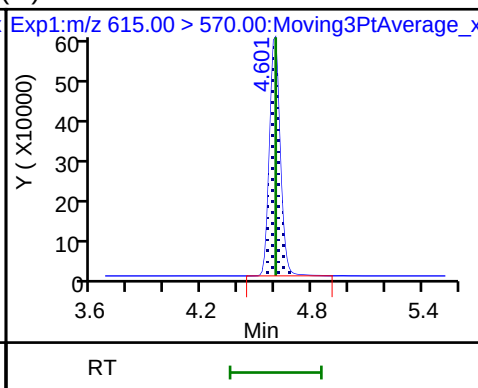
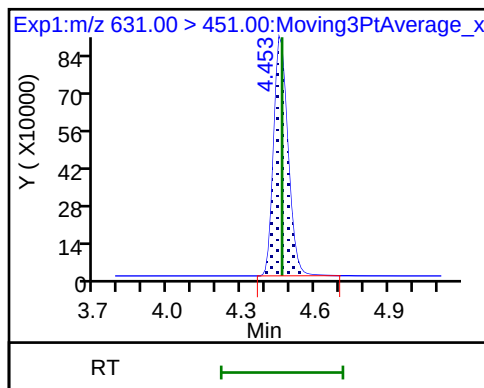
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

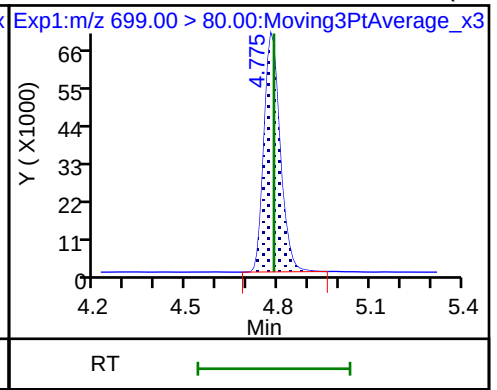
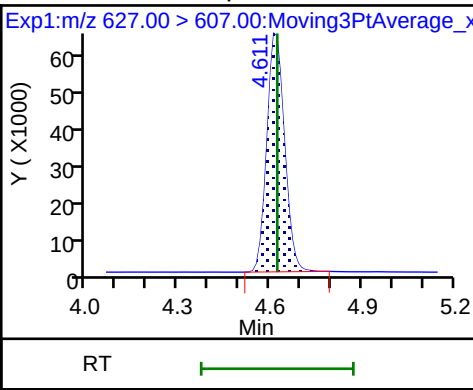
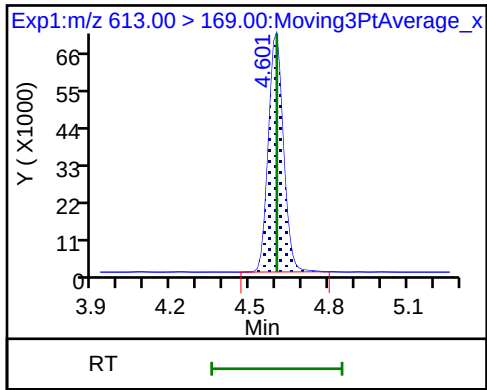
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid

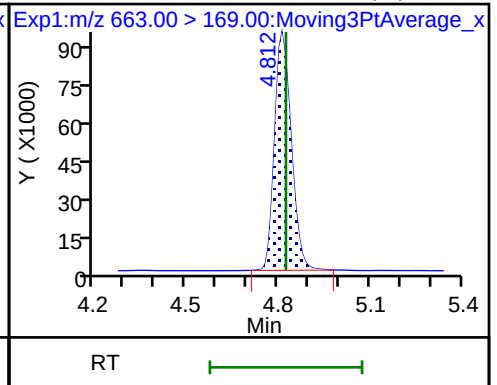
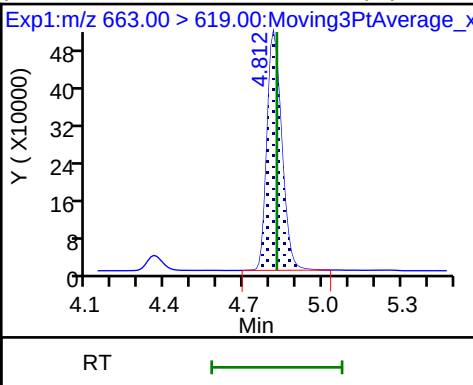
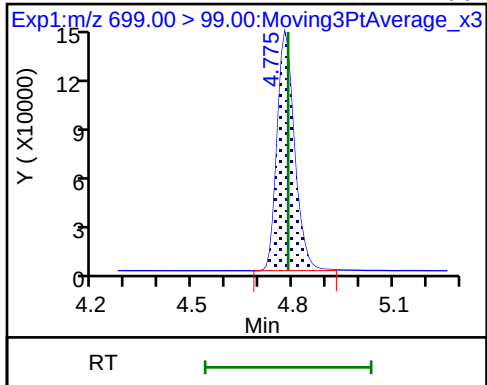
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid ((M) 41 Perfluorotridecanoic acid (M)

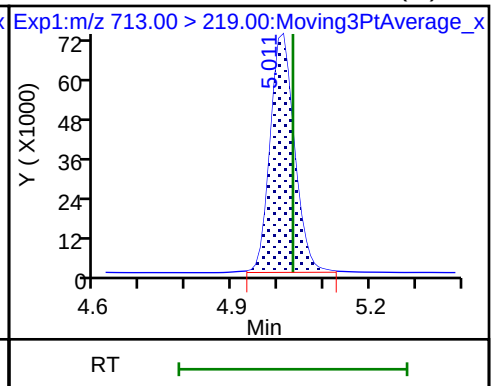
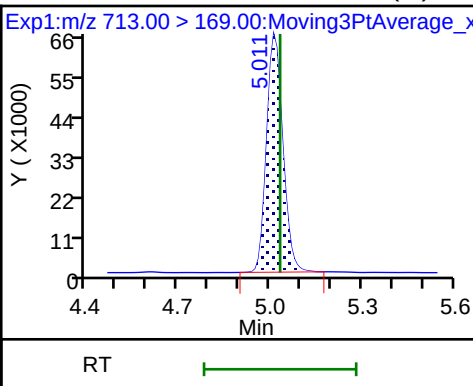
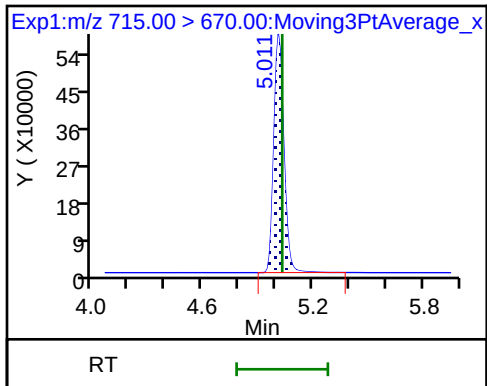
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

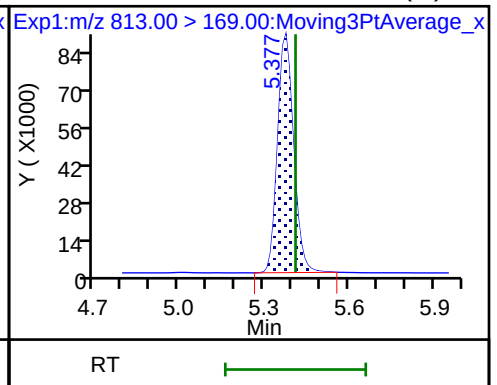
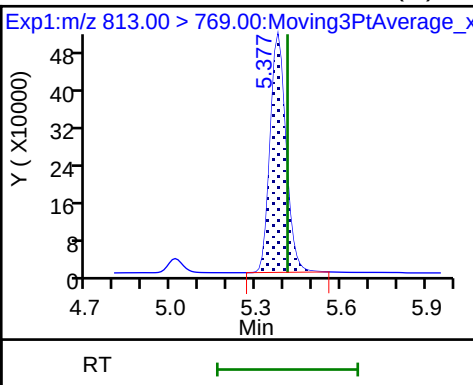
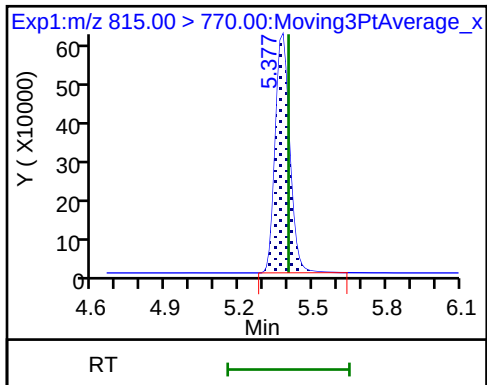
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

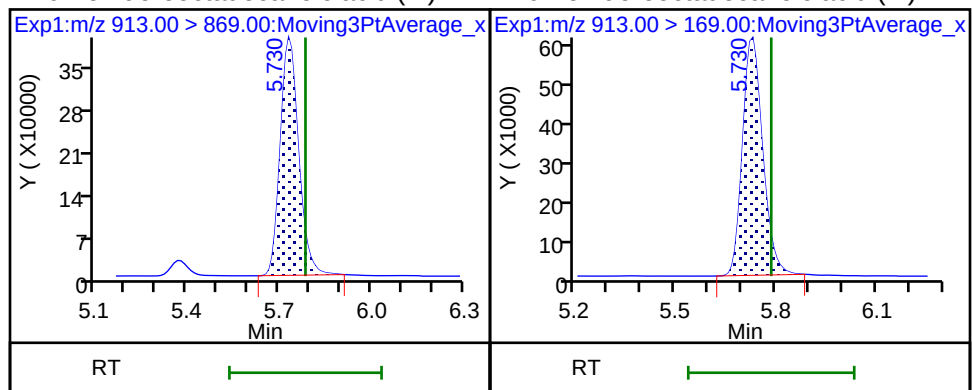
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

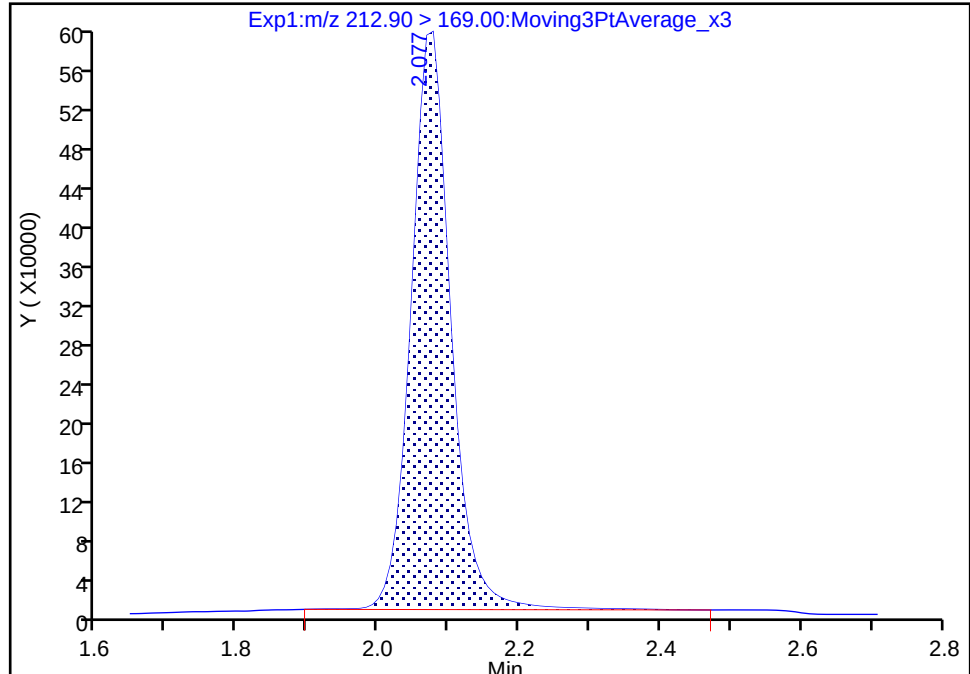
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

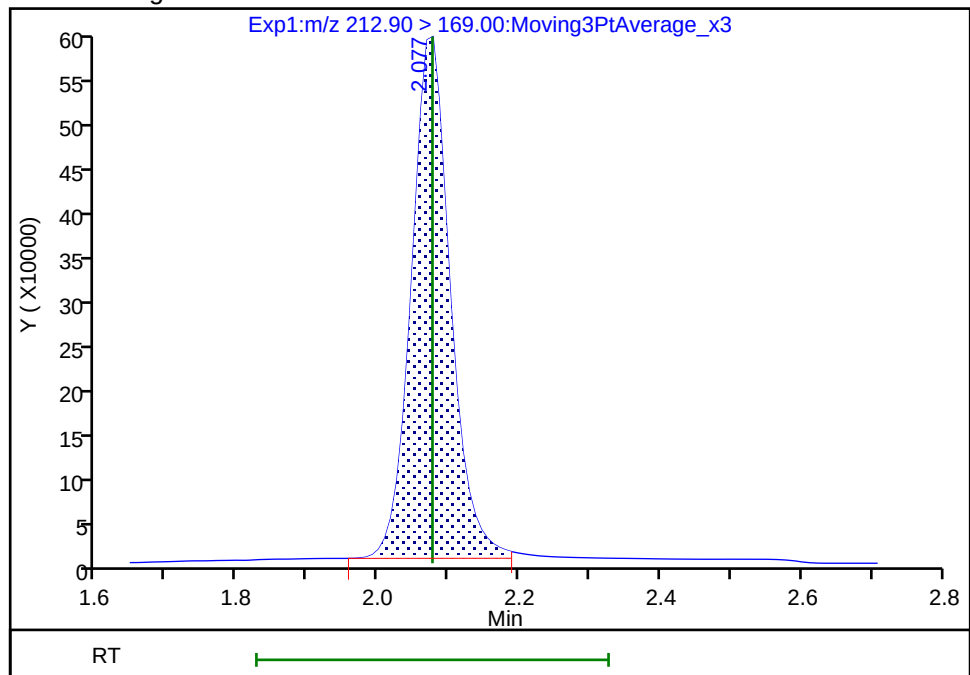
RT: 2.08
Area: 2299958
Amount: 0.964947
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 2261381
Amount: 0.948762
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

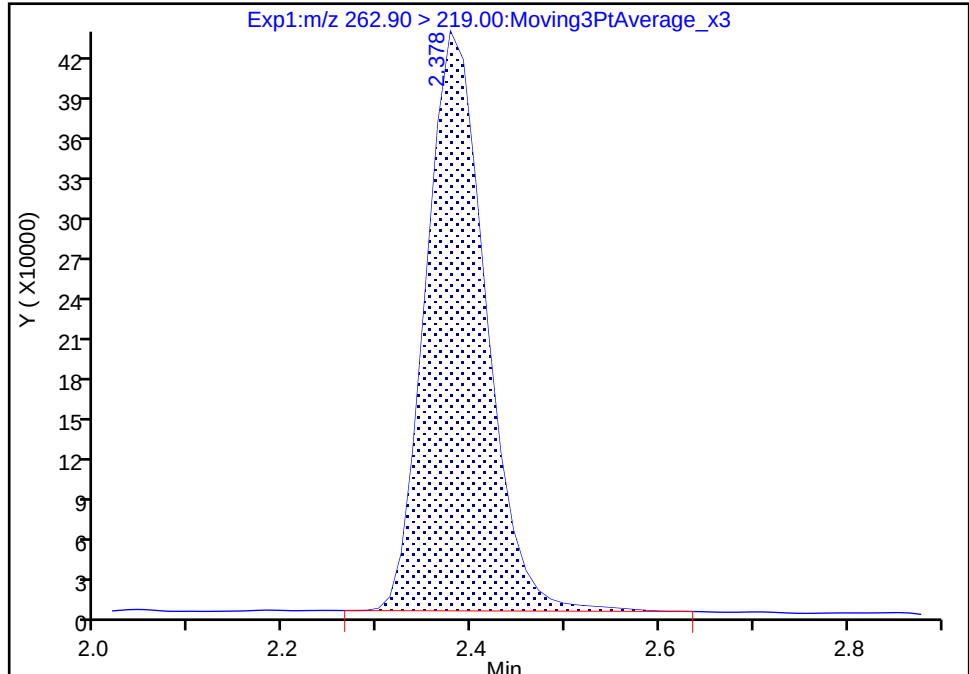
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

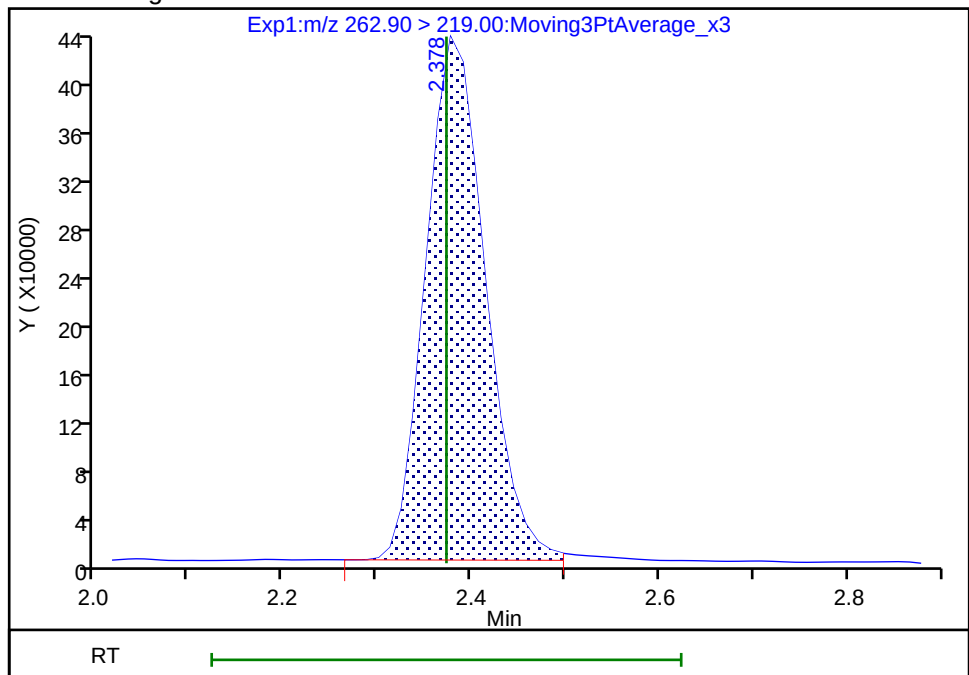
RT: 2.38
Area: 1880126
Amount: 1.008024
Amount Units: ng/ml

Processing Integration Results



RT: 2.38
Area: 1864395
Amount: 0.999590
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

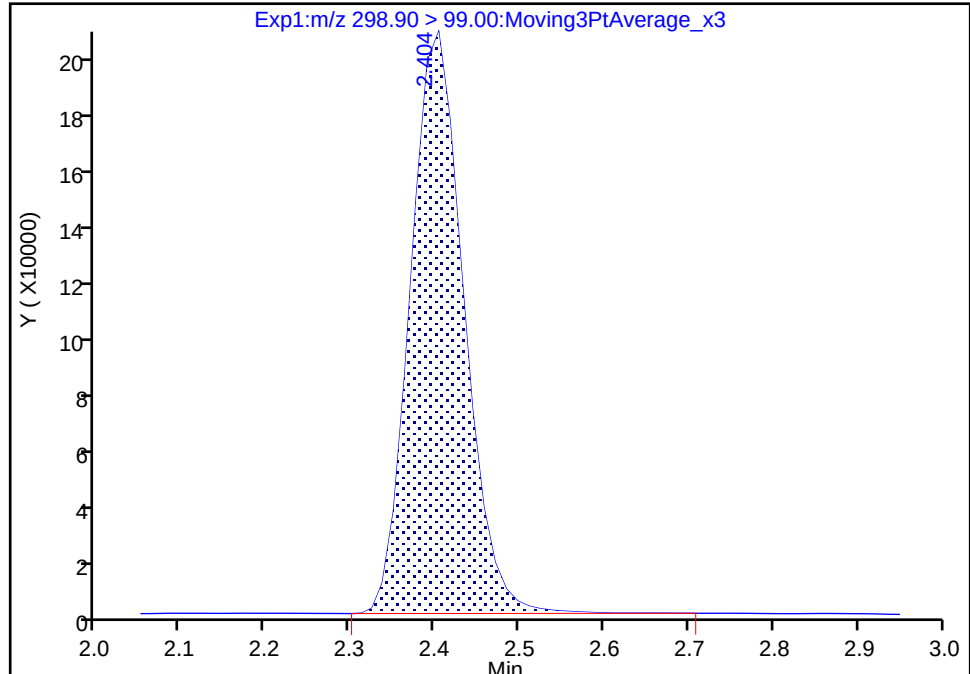
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

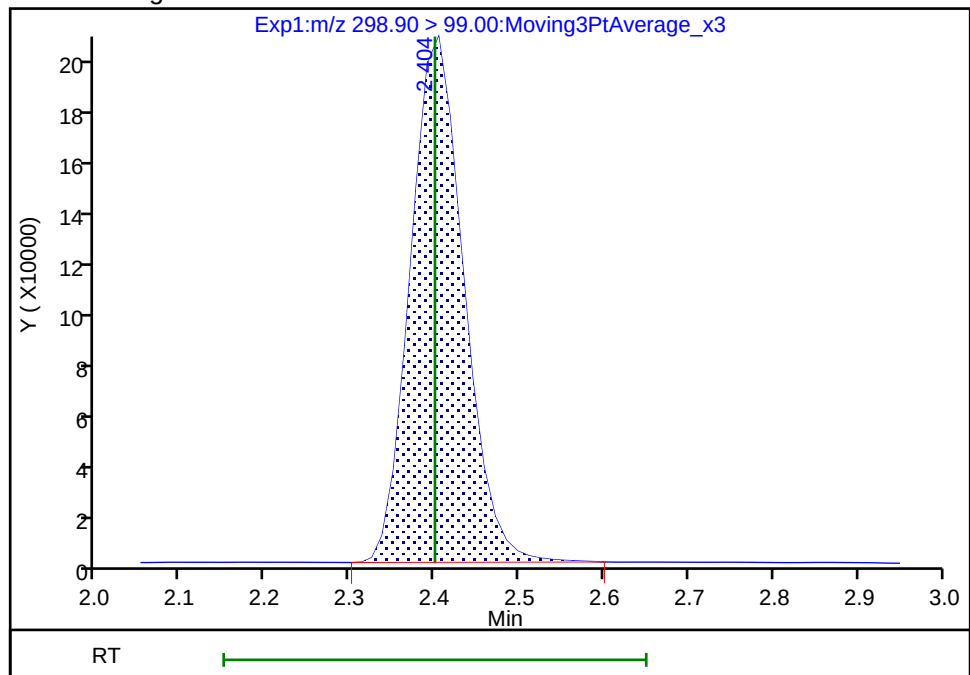
RT: 2.40
Area: 881155
Amount: 0.829366
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 879587
Amount: 0.827640
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

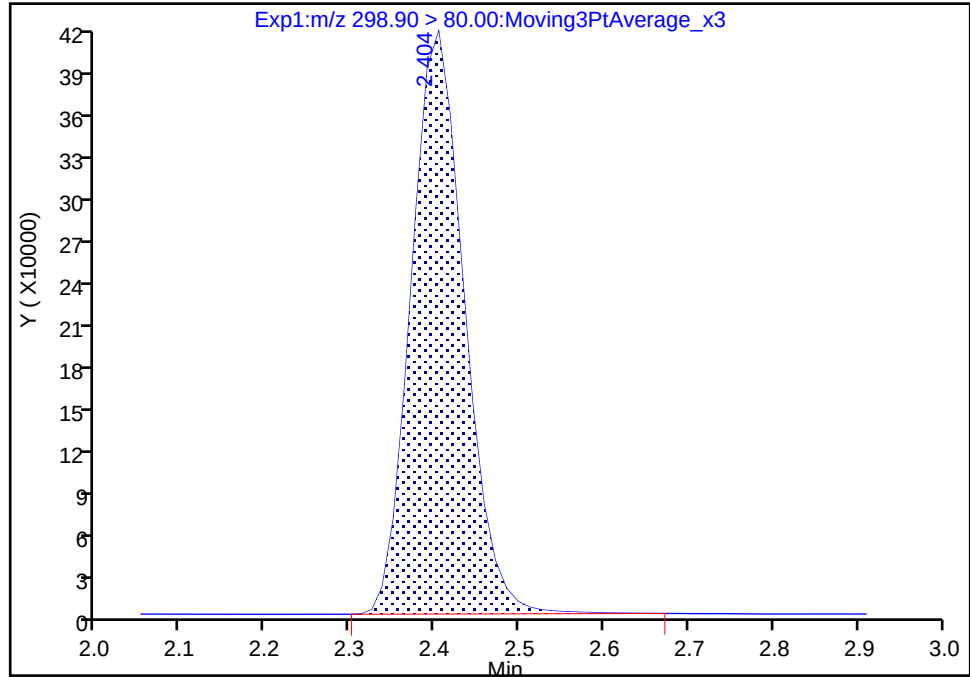
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

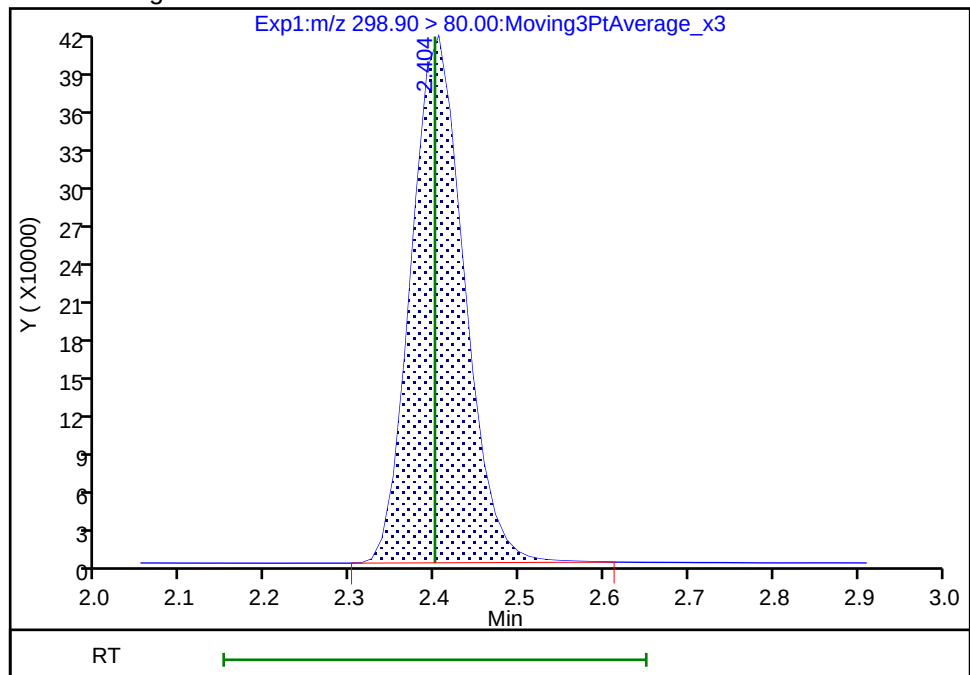
RT: 2.40
Area: 1817709
Amount: 0.829366
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1813926
Amount: 0.827640
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

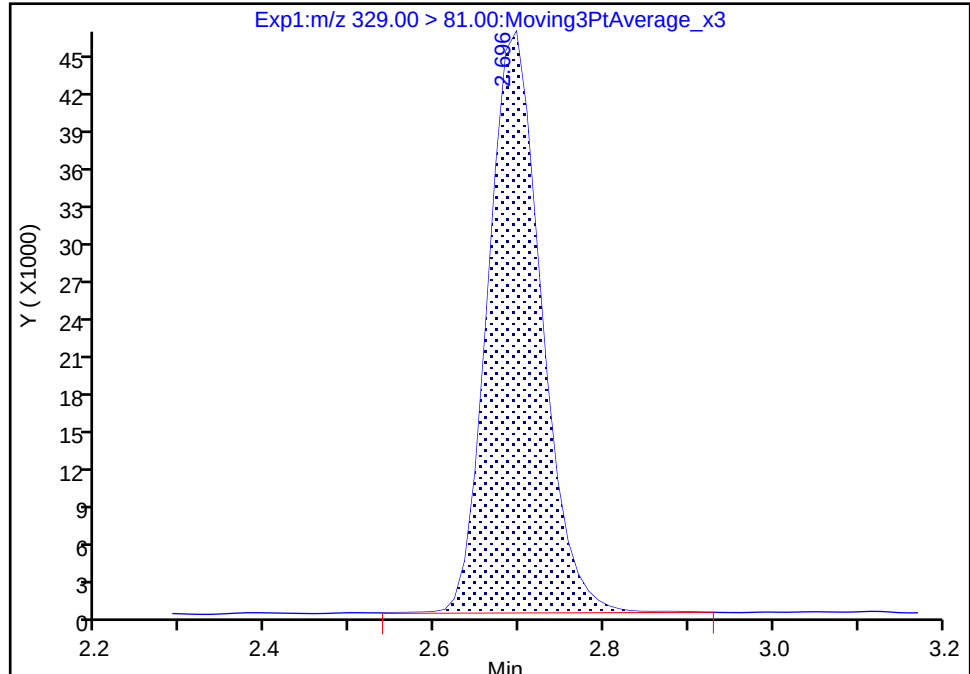
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

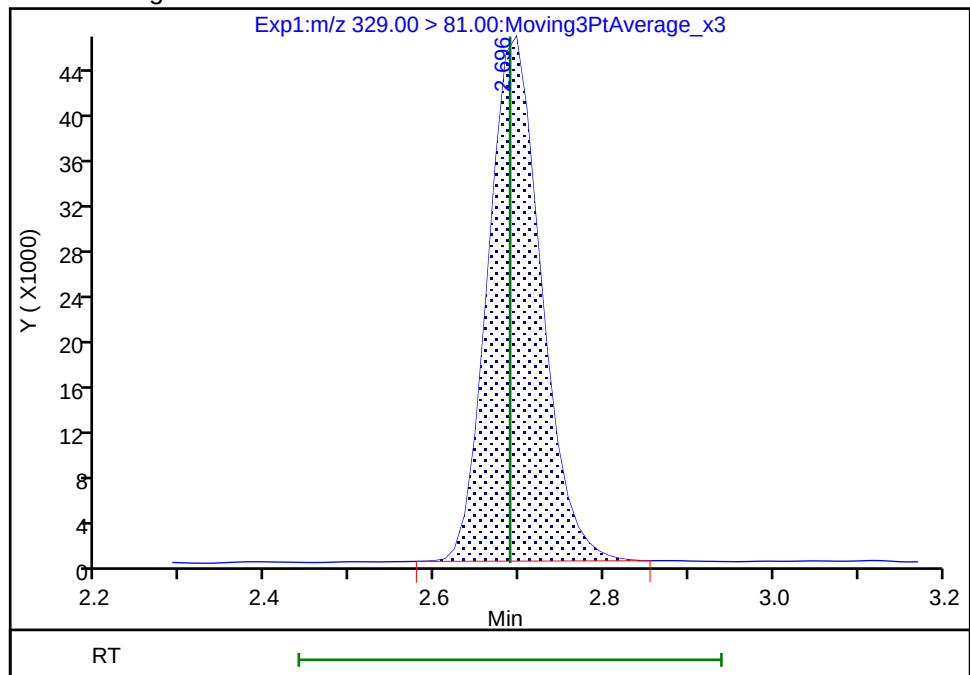
RT: 2.70
Area: 202716
Amount: 1.099371
Amount Units: ng/ml

Processing Integration Results



RT: 2.70
Area: 201121
Amount: 1.090721
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:02:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

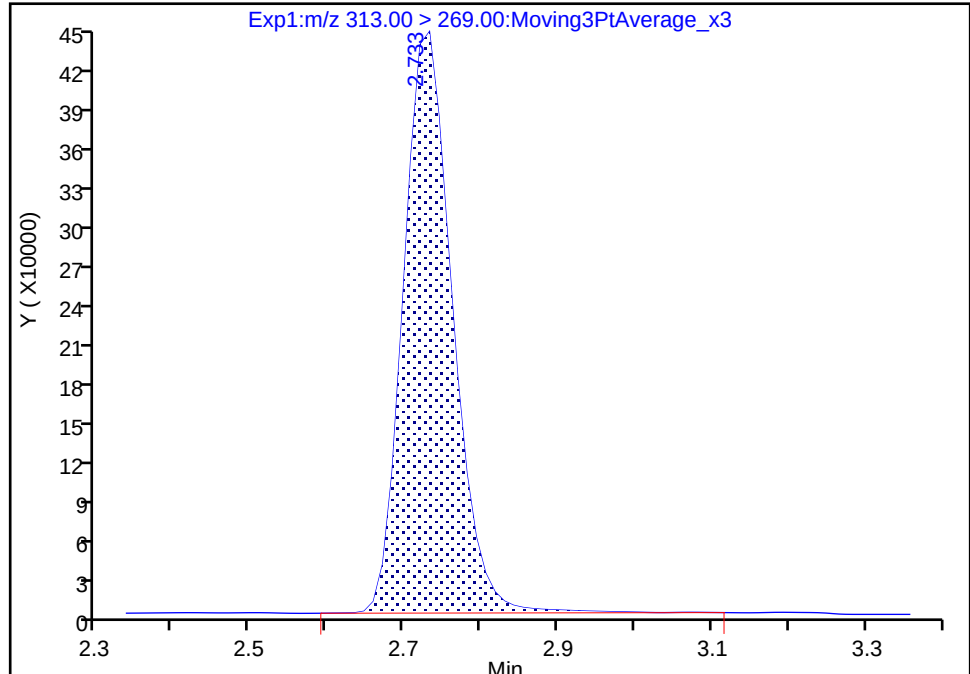
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

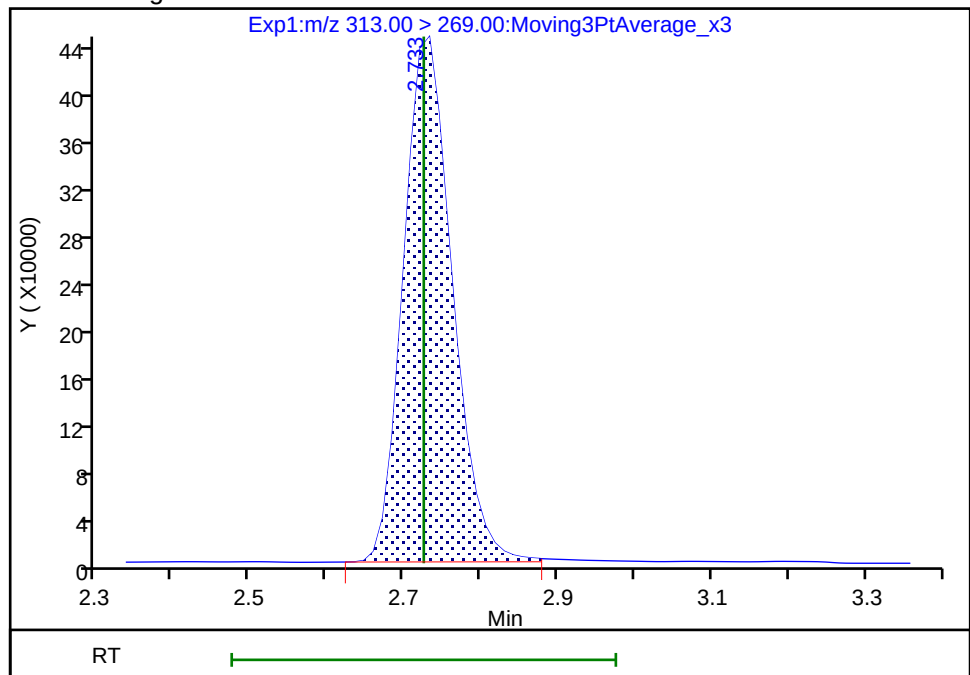
RT: 2.73
Area: 1953389
Amount: 0.977876
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1940084
Amount: 0.971216
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

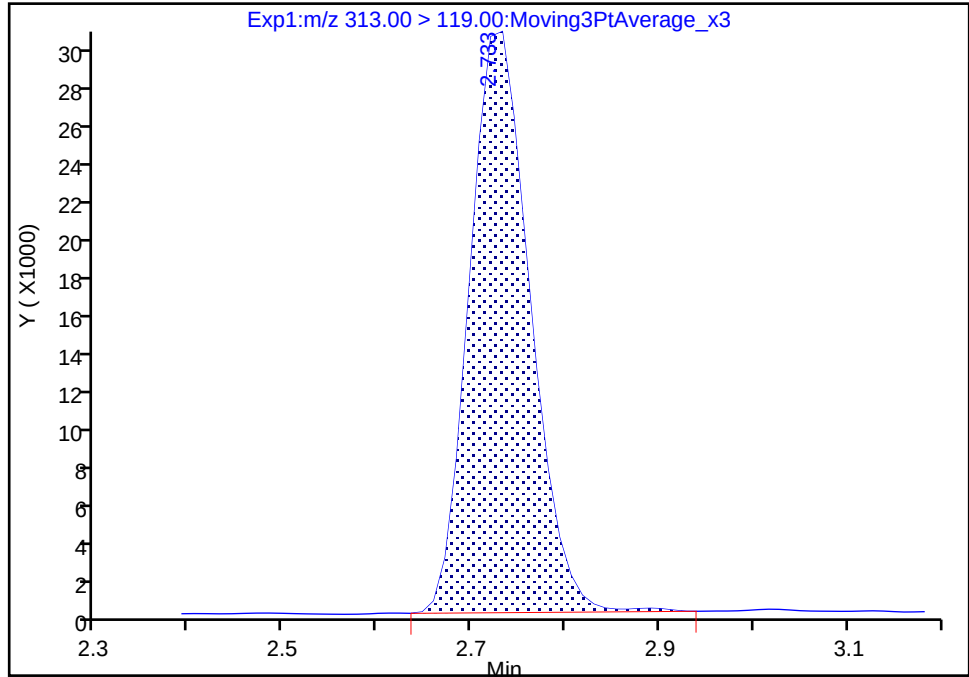
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

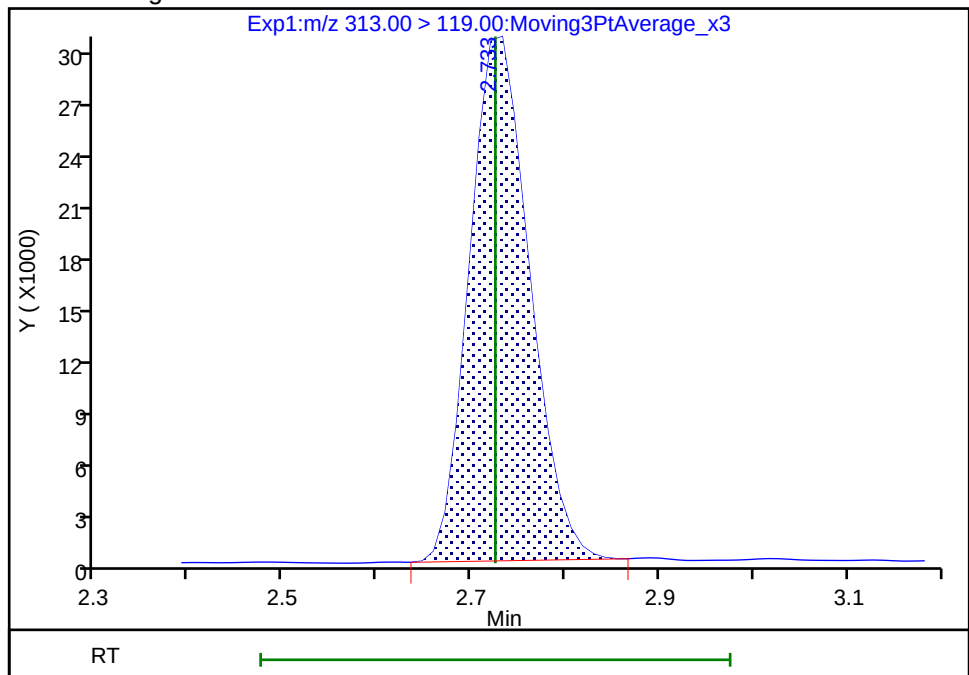
RT: 2.73
Area: 135832
Amount: 0.977876
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 134526
Amount: 0.971216
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

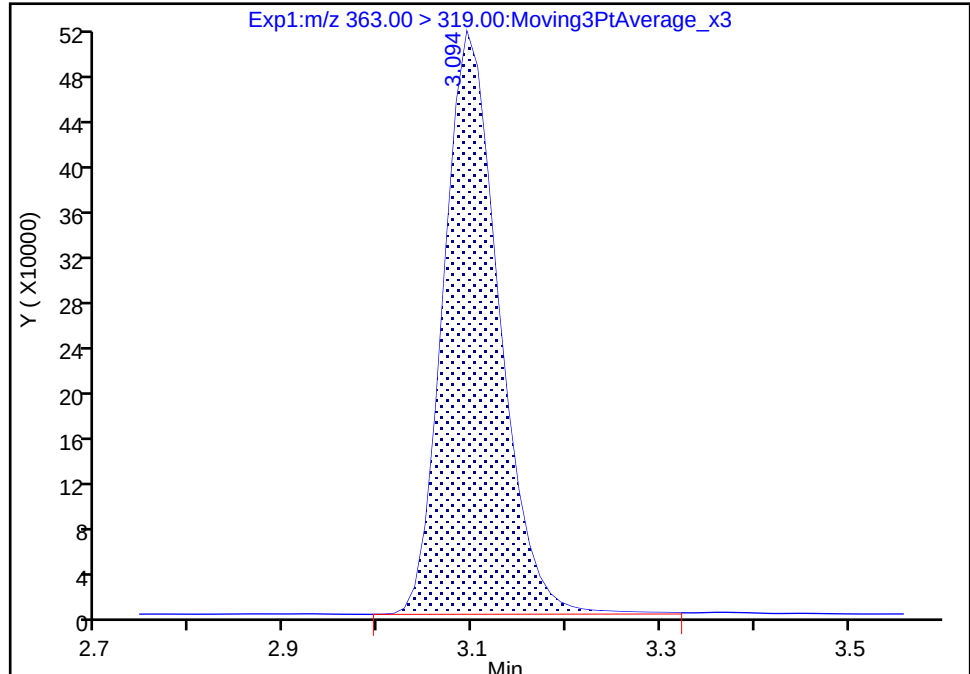
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

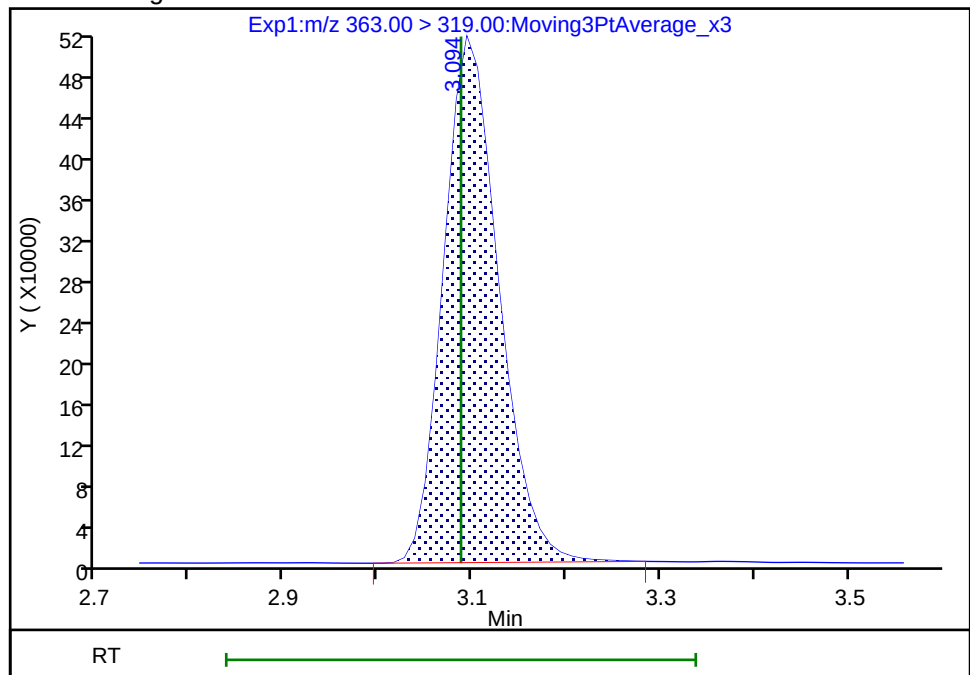
RT: 3.09
Area: 2116112
Amount: 0.992844
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 2100117
Amount: 0.985340
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

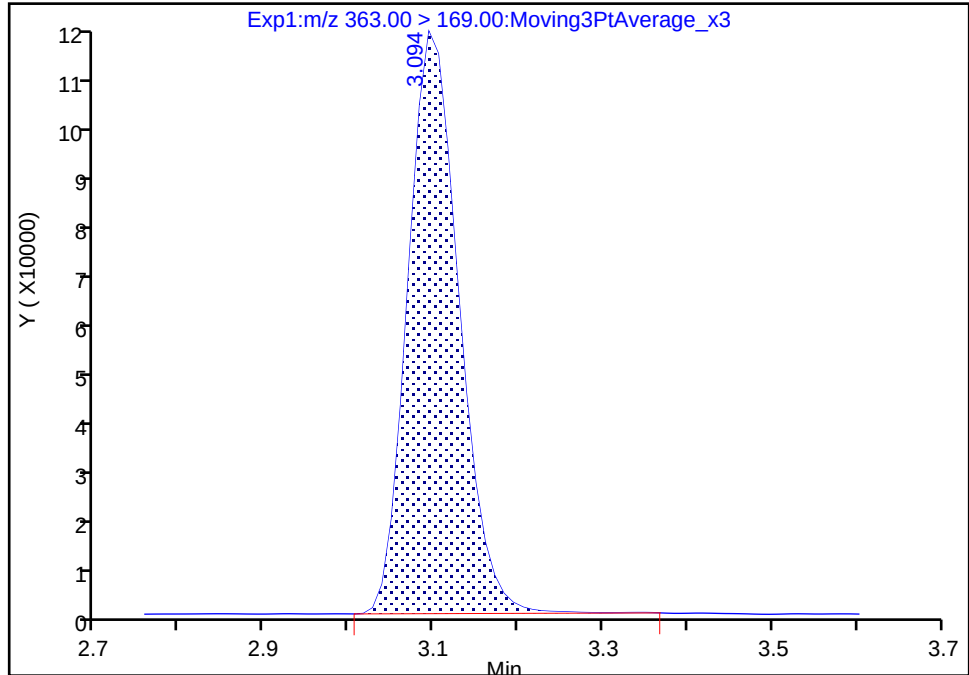
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

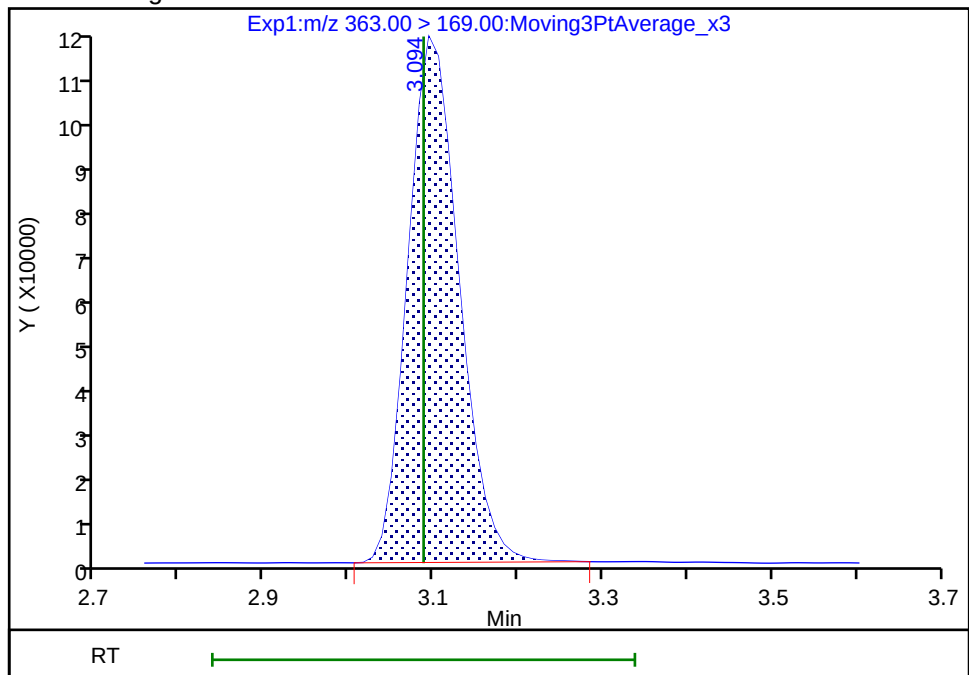
RT: 3.09
Area: 502451
Amount: 0.992844
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 501264
Amount: 0.985340
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

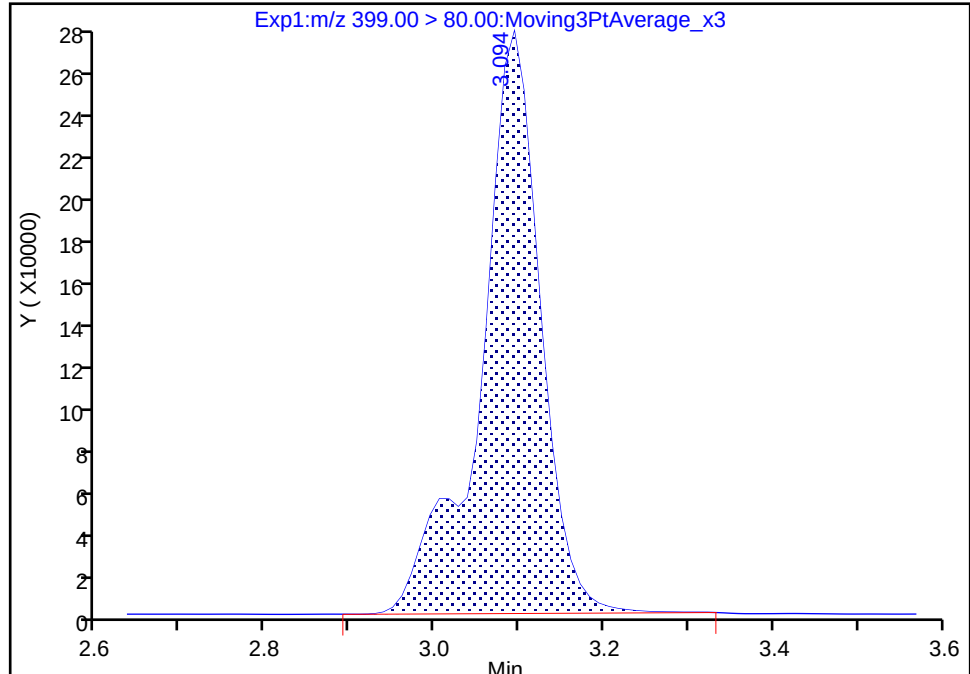
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

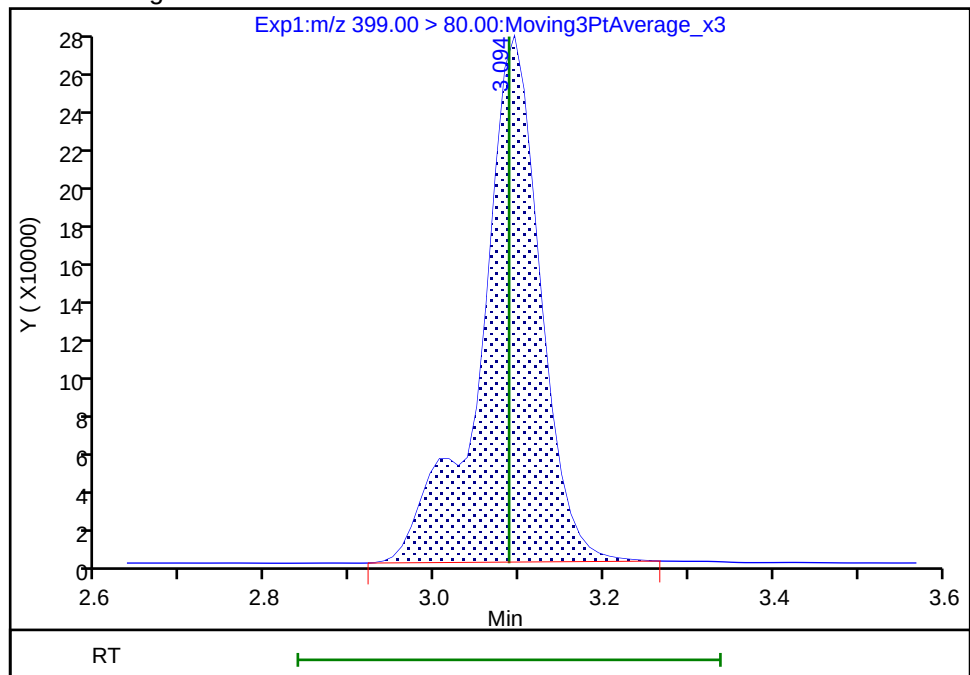
RT: 3.09
Area: 1360421
Amount: 0.869437
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1354861
Amount: 0.865883
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:03:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

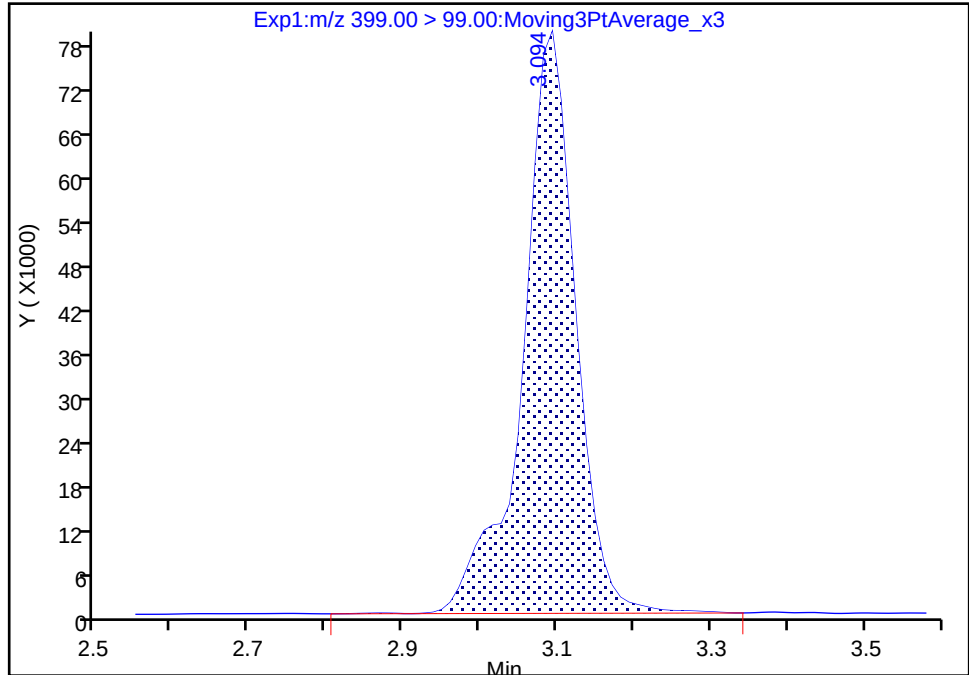
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

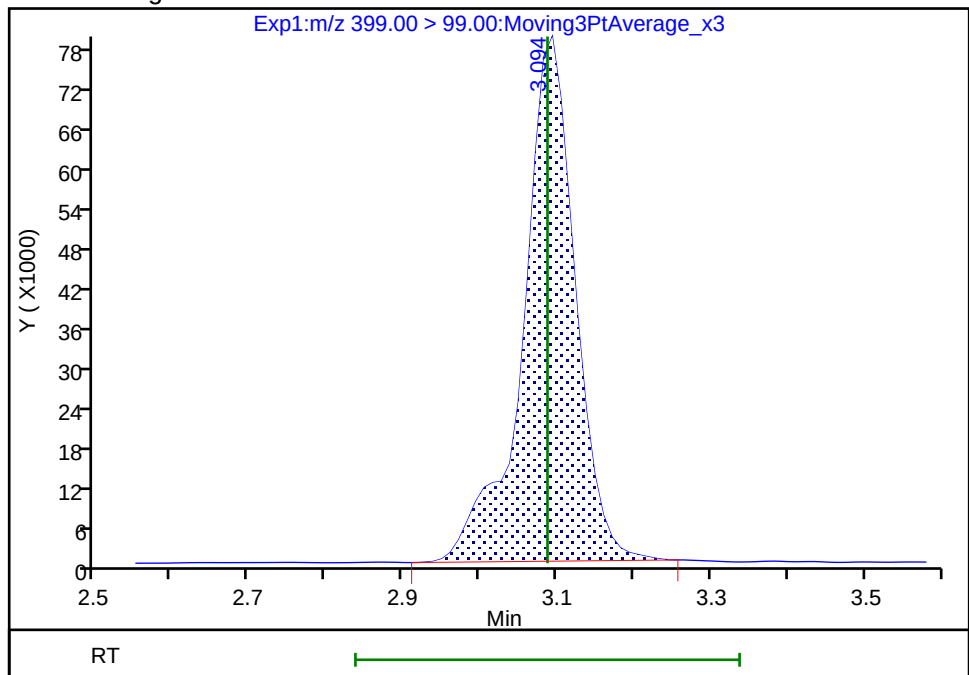
RT: 3.09
Area: 381501
Amount: 0.869437
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 376988
Amount: 0.865883
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 628 of 97811/21/2022
4:10 PM

Eurofins Burlington

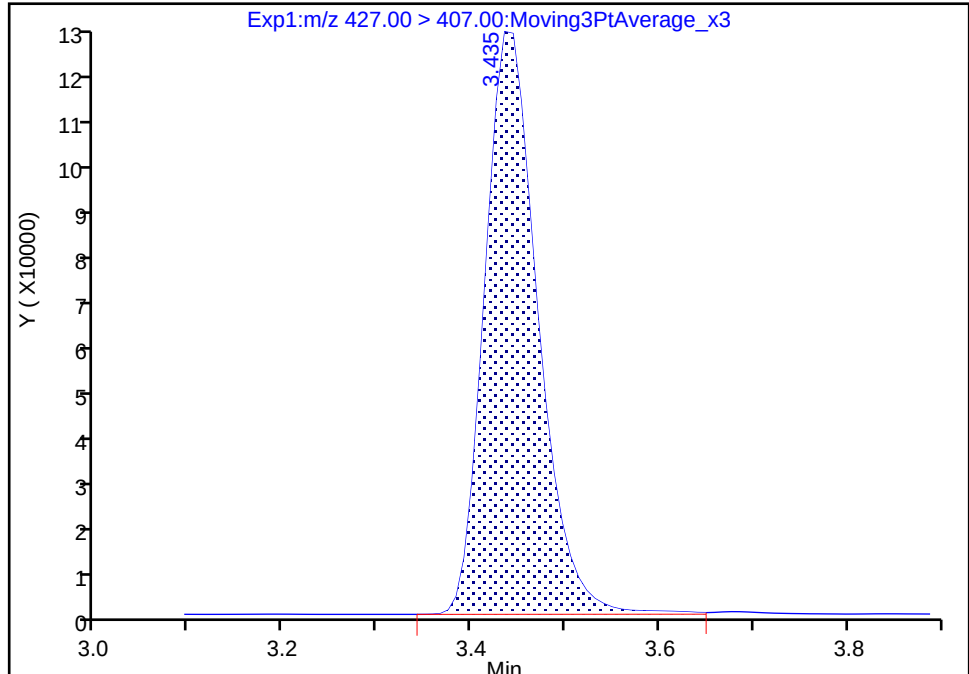
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

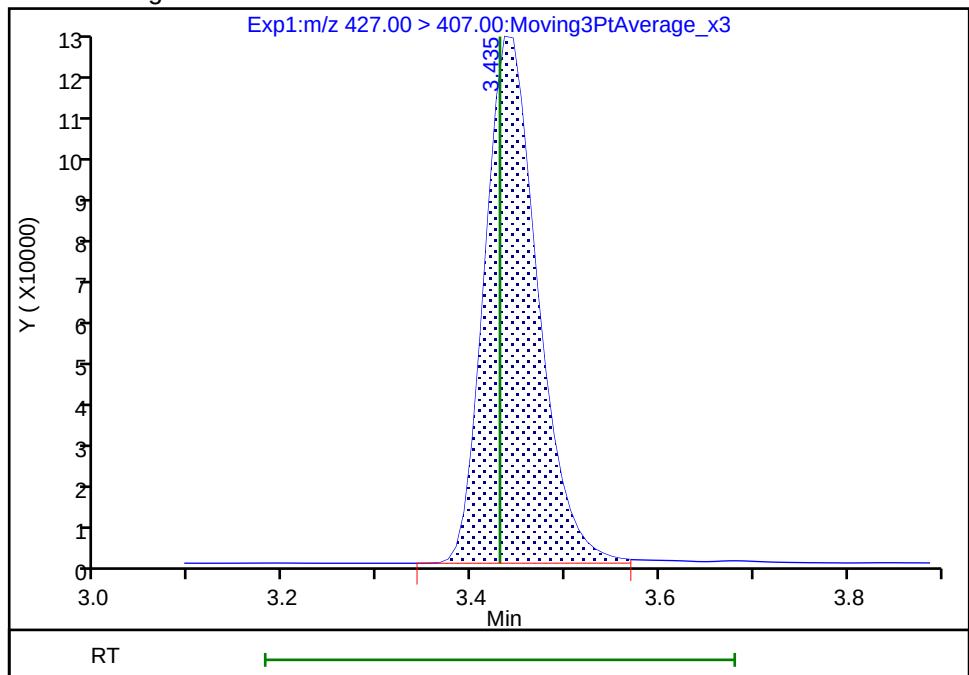
RT: 3.44
Area: 486957
Amount: 1.097474
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 484168
Amount: 1.091189
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

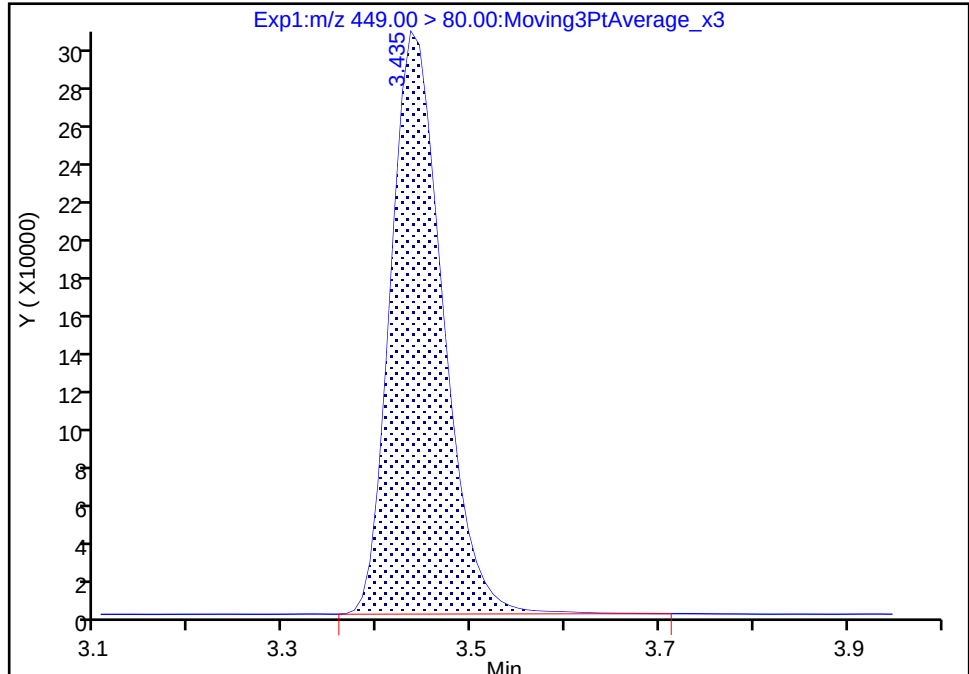
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

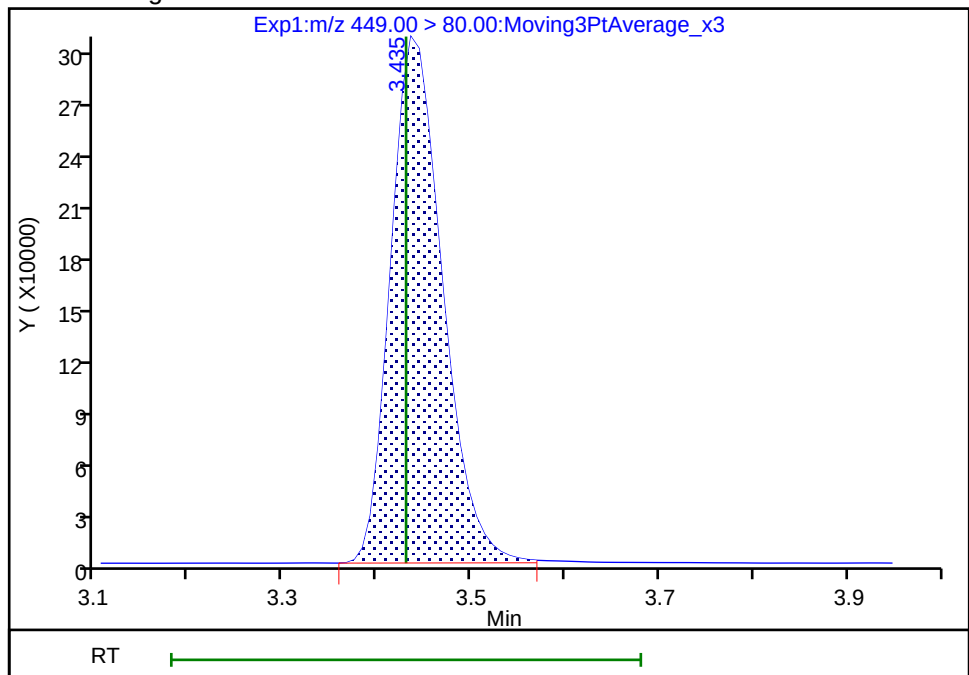
RT: 3.44
Area: 1187669
Amount: 0.902258
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1183753
Amount: 0.899283
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

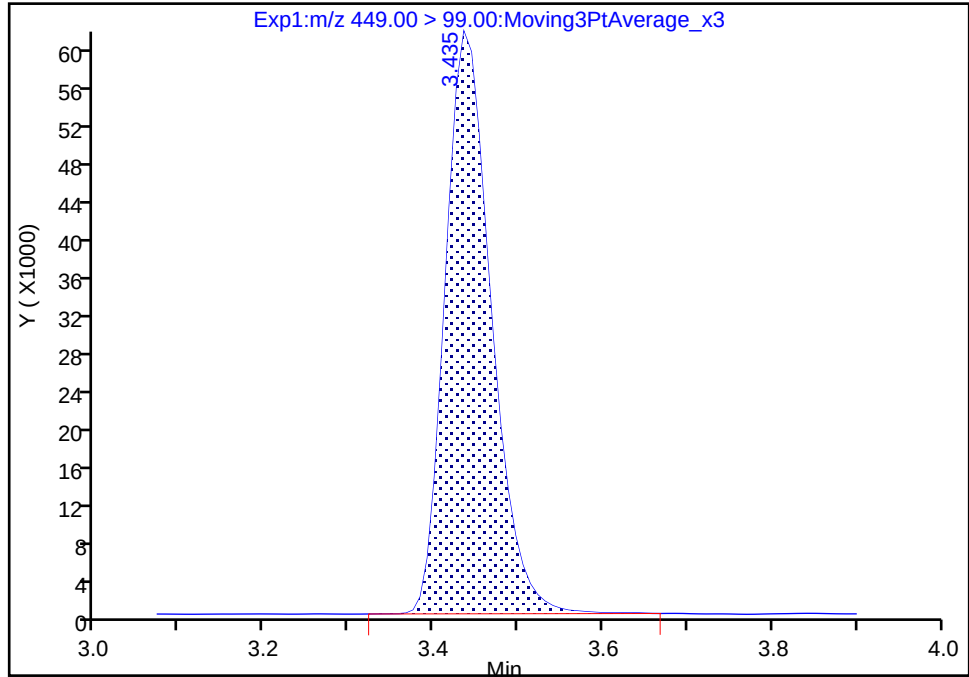
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

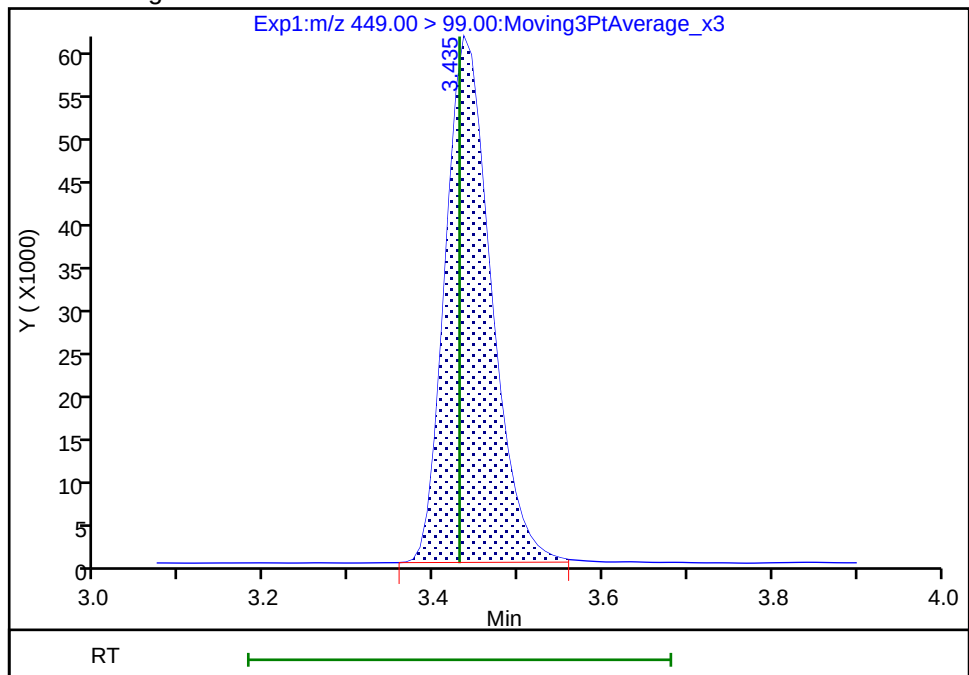
RT: 3.44
Area: 231609
Amount: 0.902258
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 230365
Amount: 0.899283
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 631 of 97811/21/2022
4:10 PM

Eurofins Burlington

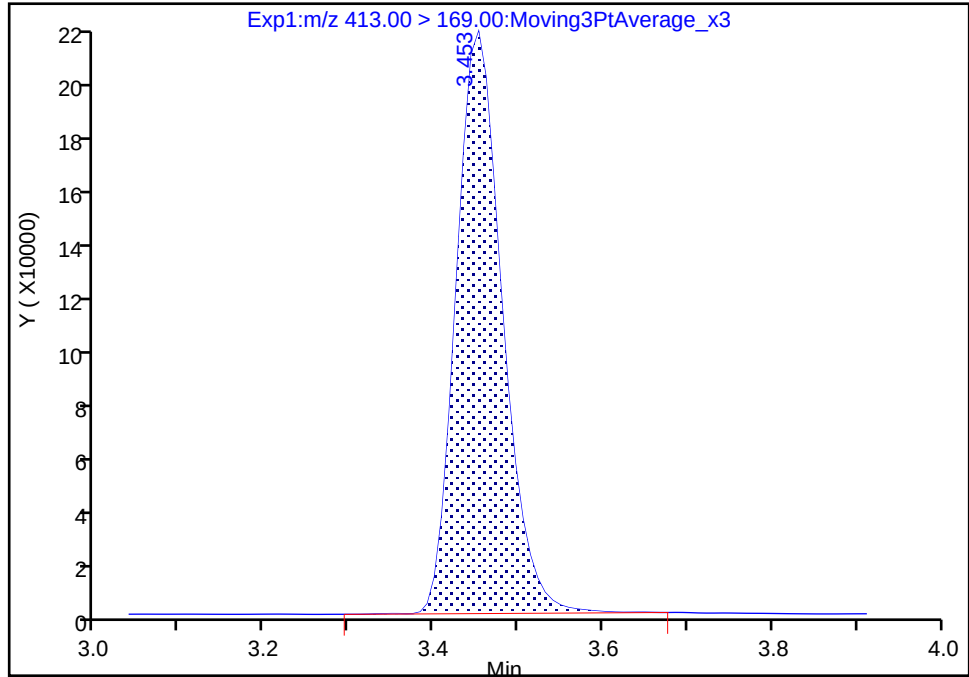
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

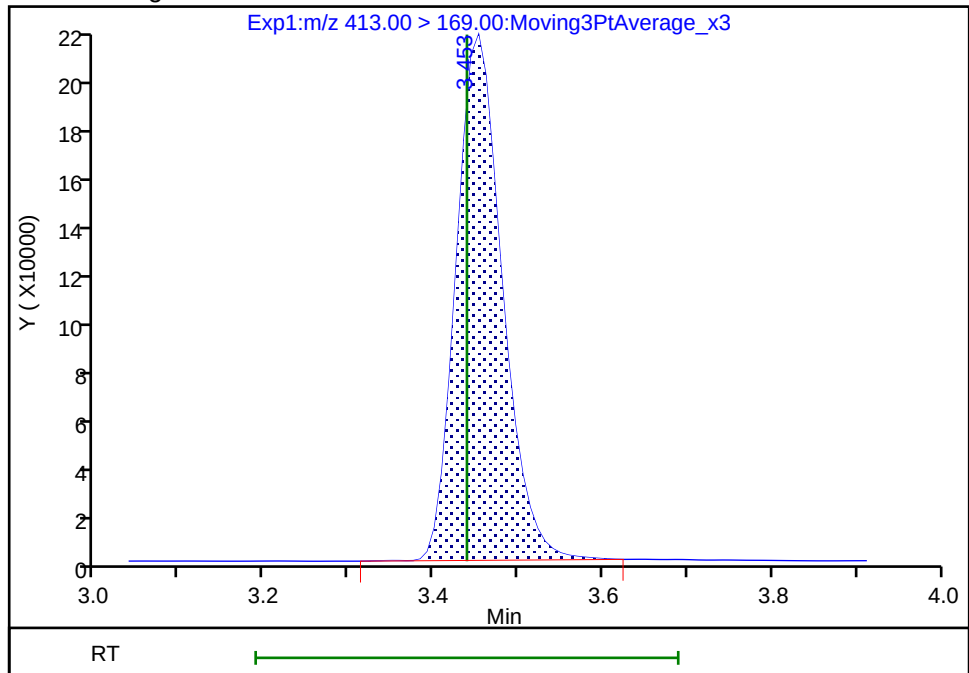
RT: 3.45
Area: 801240
Amount: 0.935941
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 799449
Amount: 0.935941
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:04:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

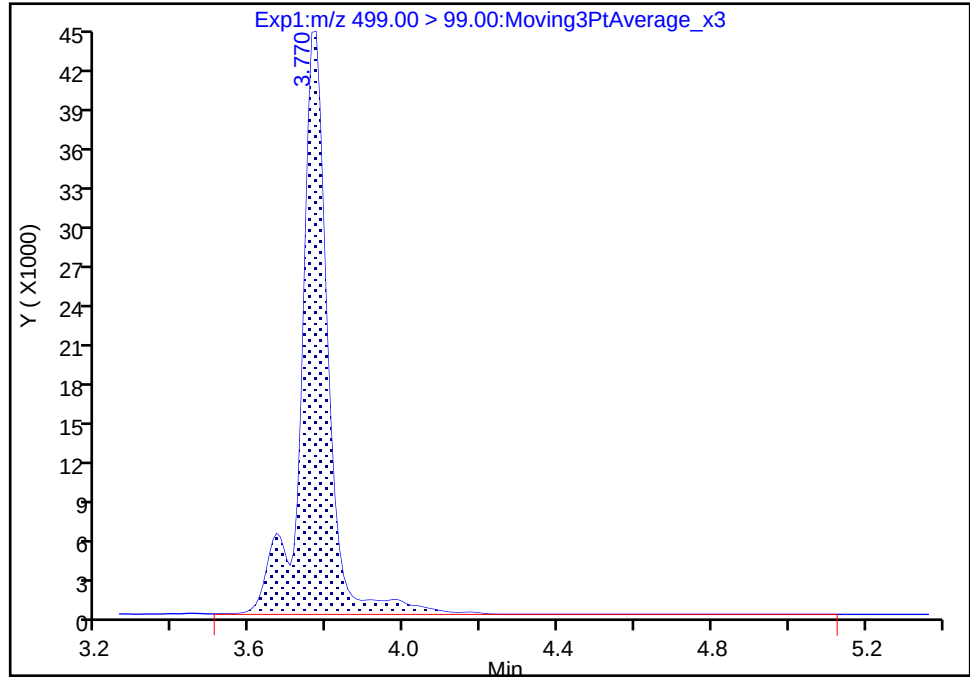
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

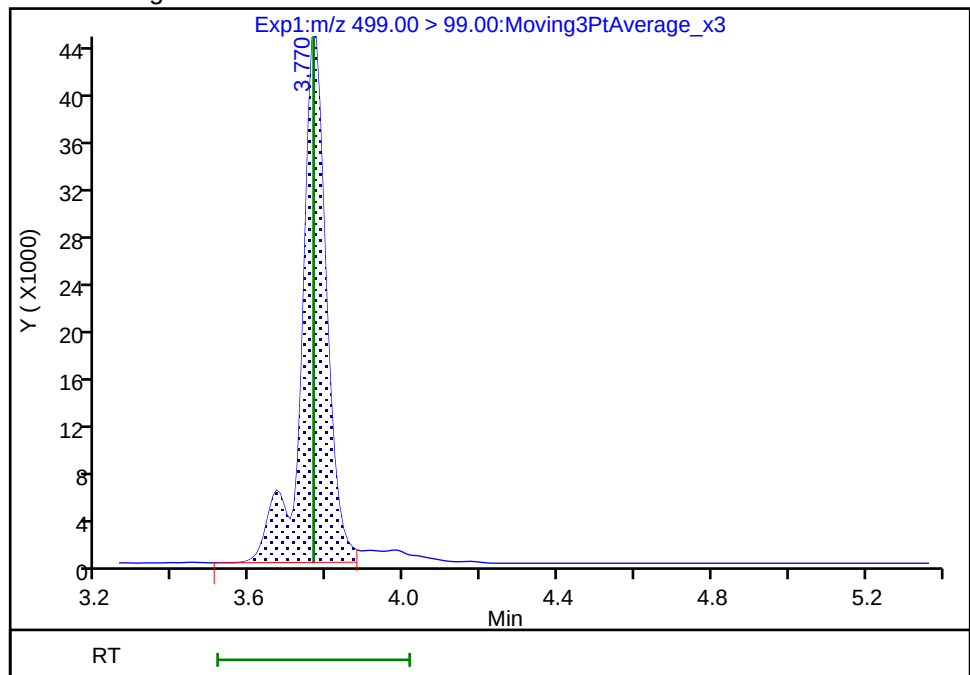
RT: 3.77
Area: 215818
Amount: 0.944414
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 202500
Amount: 0.913123
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:05:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

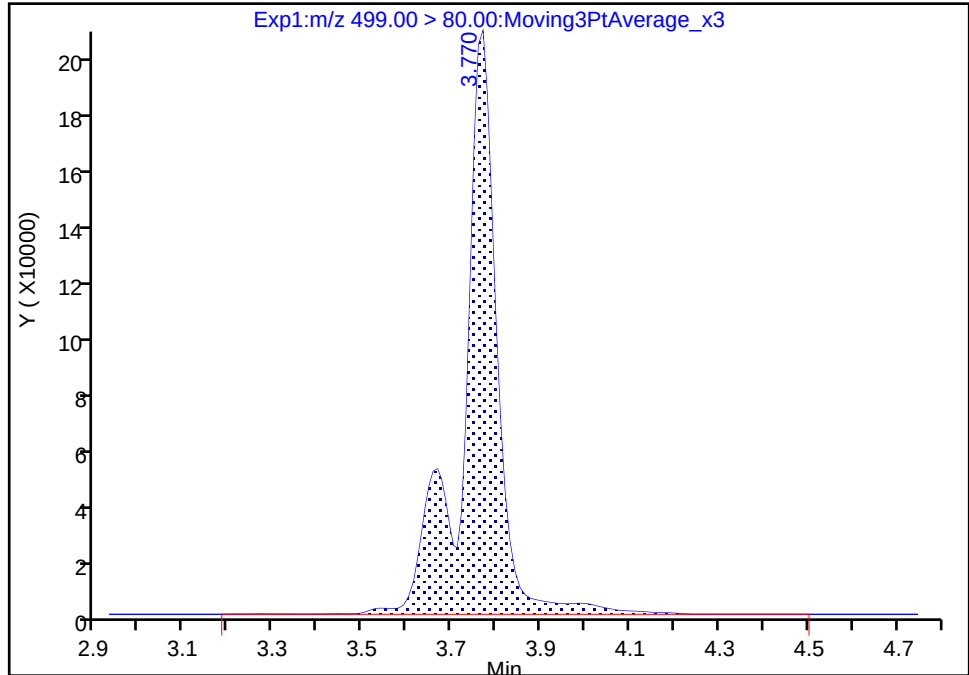
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

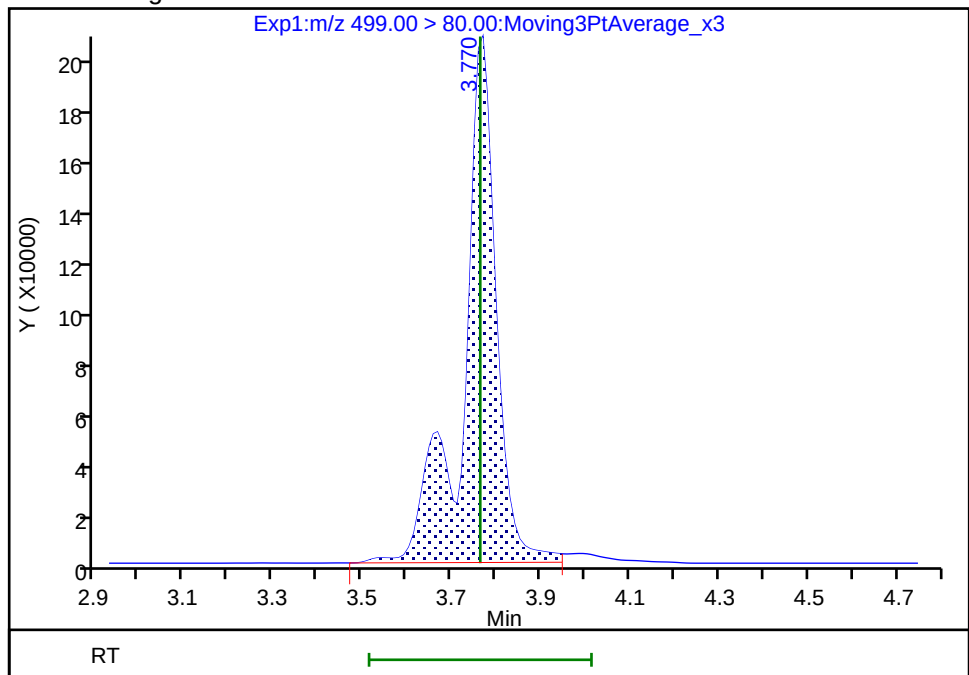
RT: 3.77
Area: 1071983
Amount: 0.944414
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 1036465
Amount: 0.913123
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:52:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 634 of 97811/21/2022
4:10 PM

Eurofins Burlington

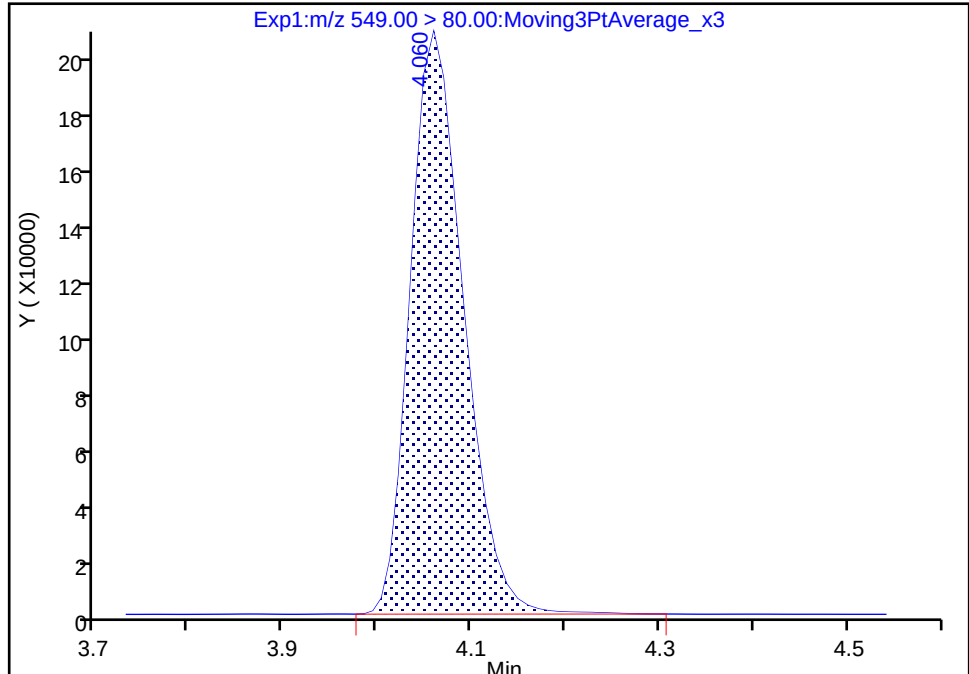
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

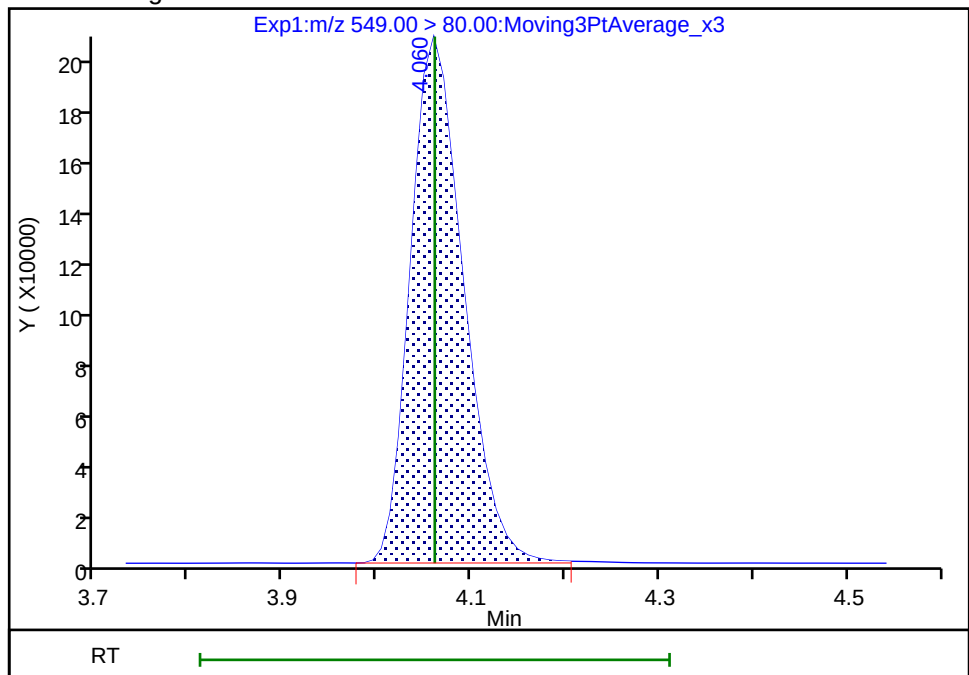
RT: 4.06
Area: 796340
Amount: 0.962836
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 794705
Amount: 0.960859
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:05:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

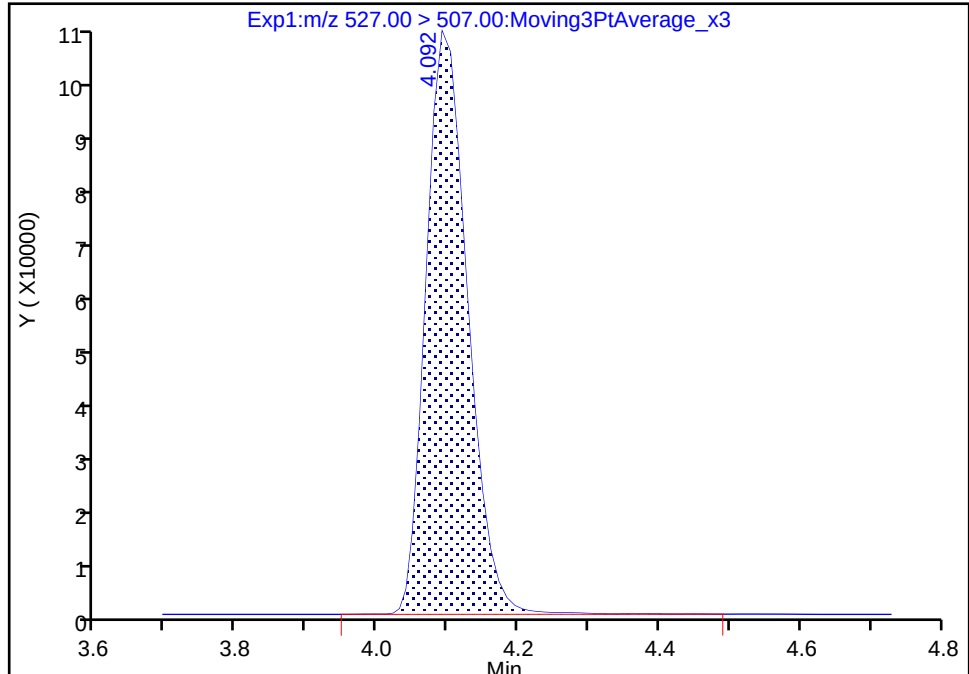
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

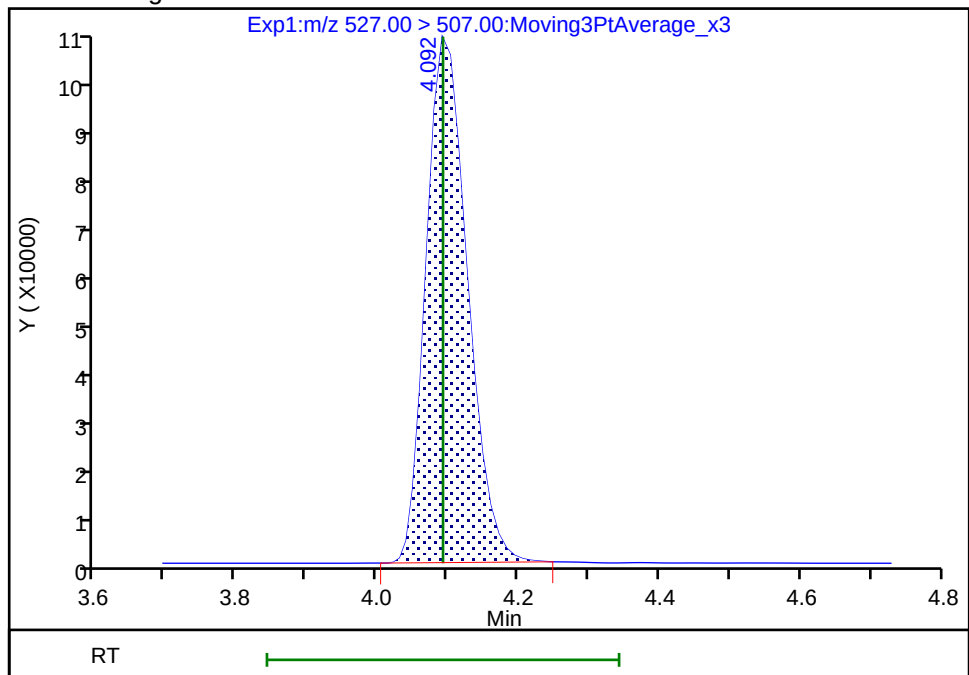
RT: 4.09
Area: 445184
Amount: 1.248446
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 441613
Amount: 1.238432
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:05:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

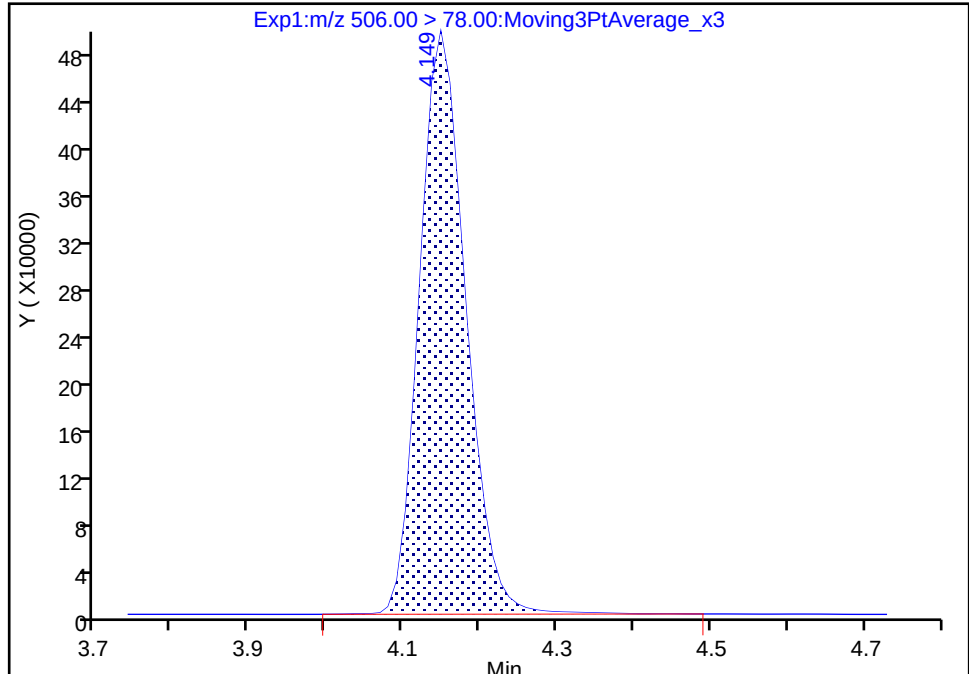
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

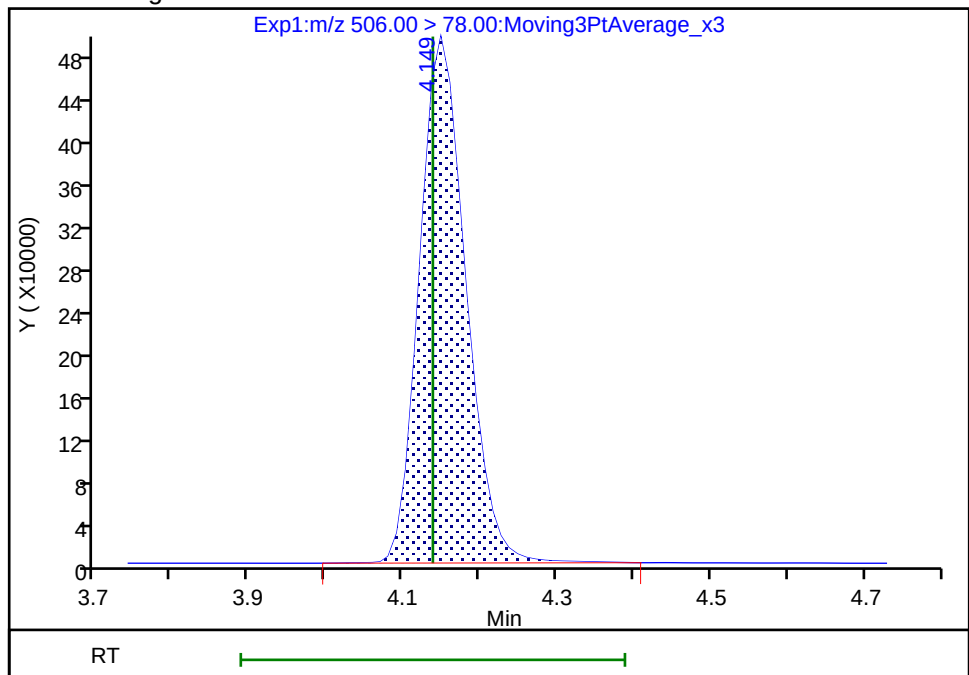
RT: 4.15
Area: 2088504
Amount: 1.250307
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 2085342
Amount: 1.248414
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:02:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

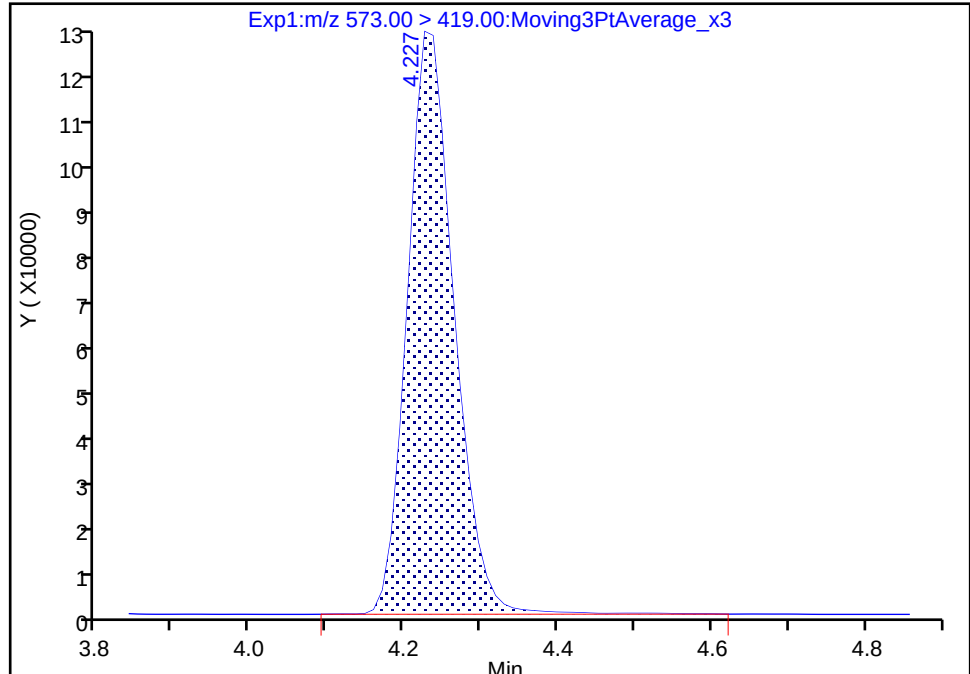
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

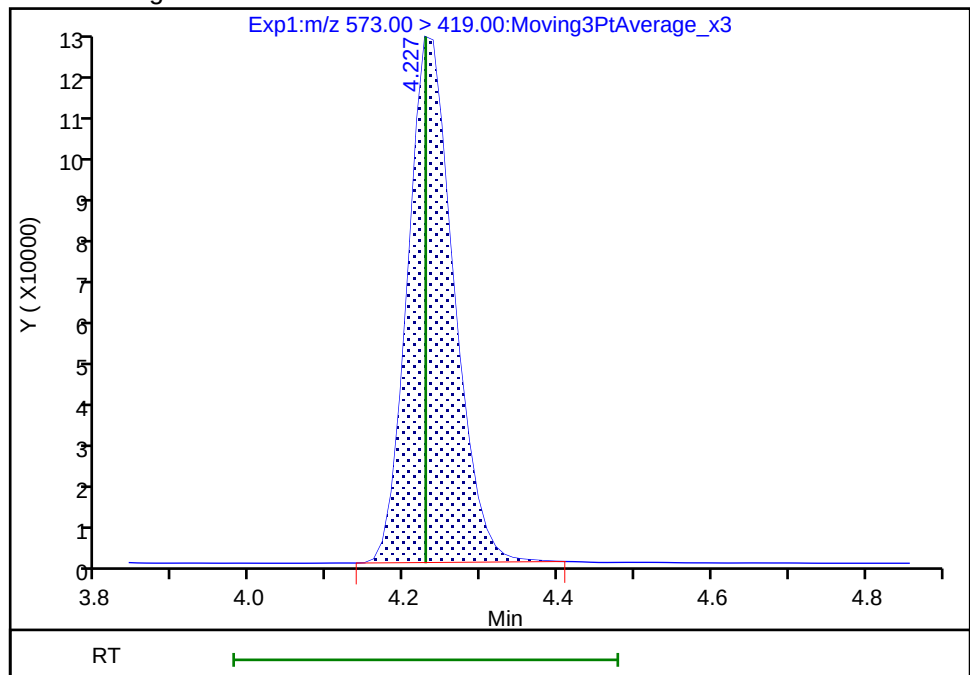
RT: 4.23
Area: 521020
Amount: 1.804293
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 515999
Amount: 1.786906
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:02:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

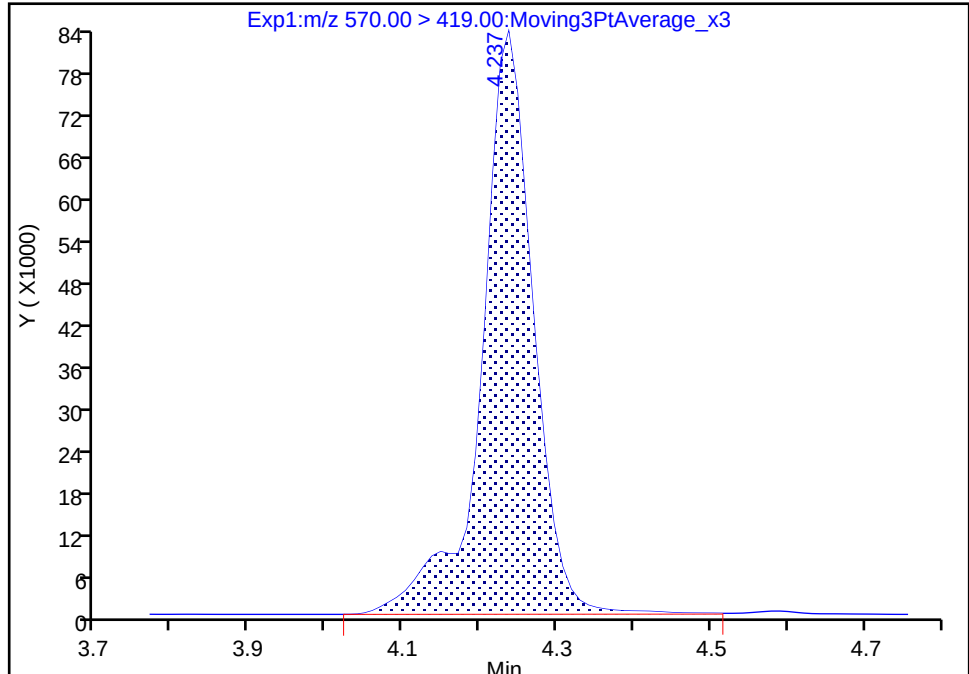
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

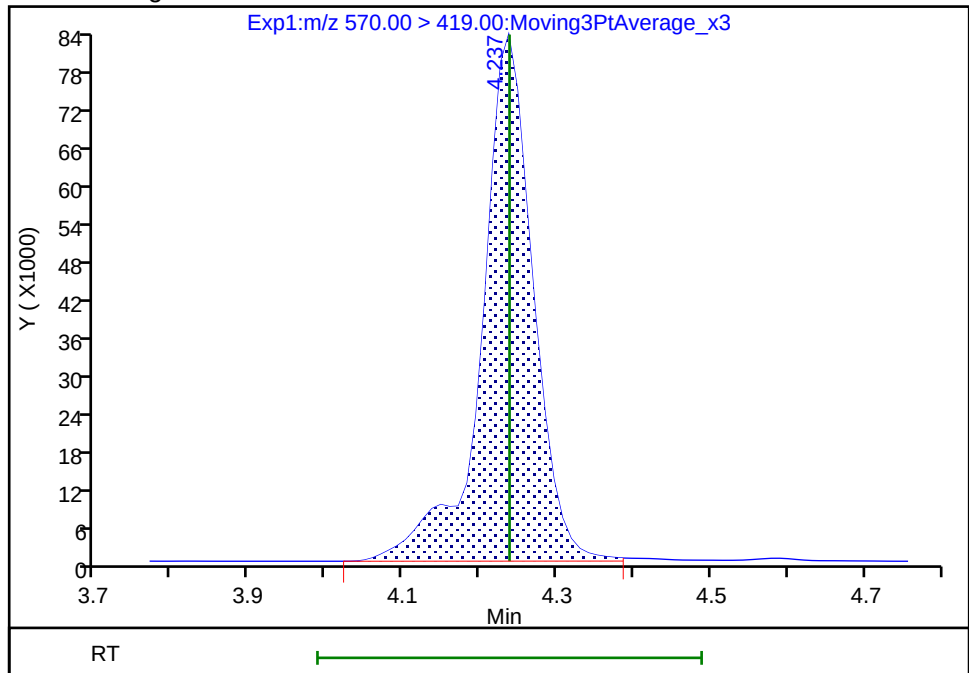
RT: 4.24
Area: 391361
Amount: 1.025159
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 389376
Amount: 1.019959
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

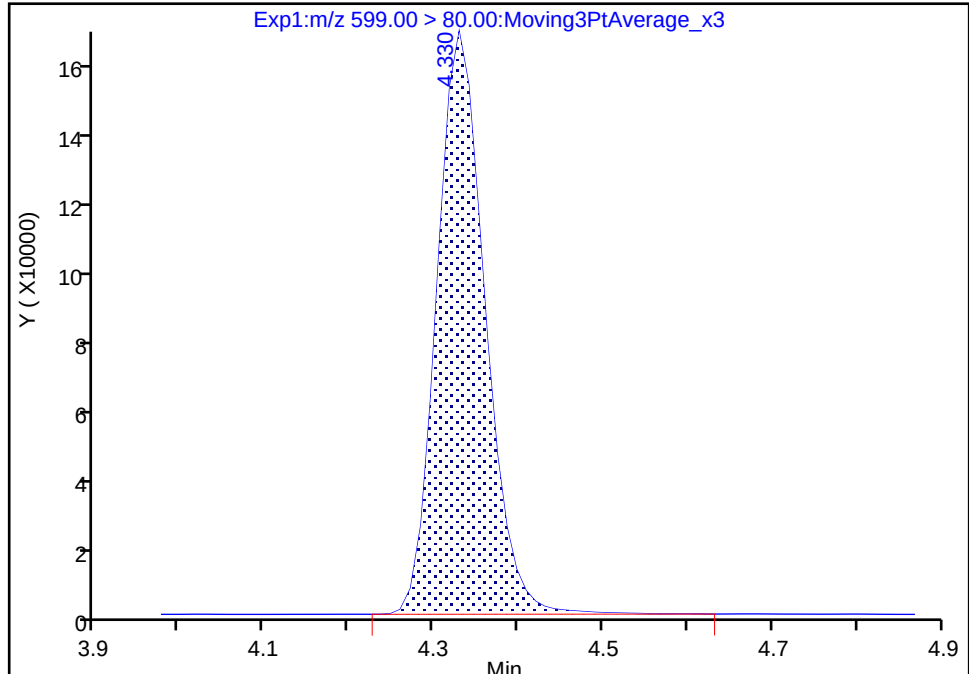
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

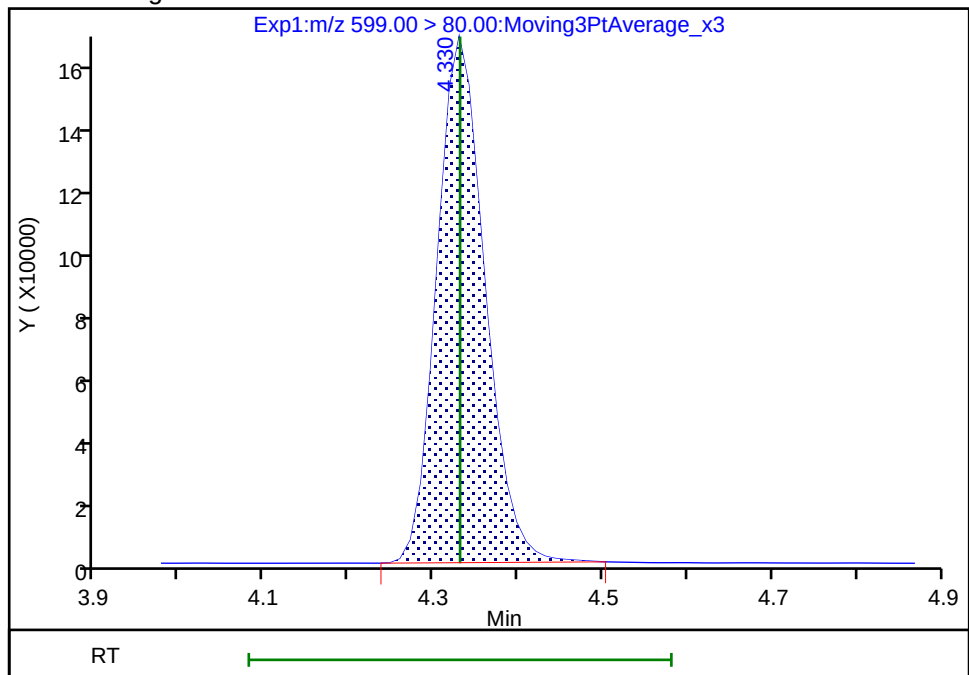
RT: 4.33
Area: 658585
Amount: 1.021686
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 654456
Amount: 1.015281
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d

Injection Date: 16-Nov-2022 21:59:15

Instrument ID: LC812

Lims ID: CCV L4

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

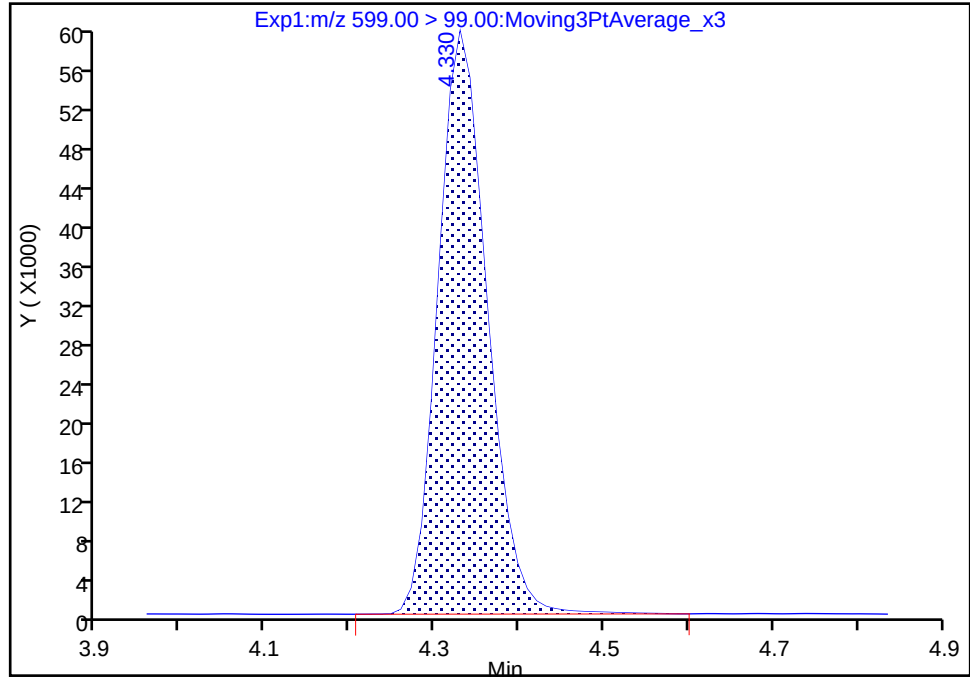
EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

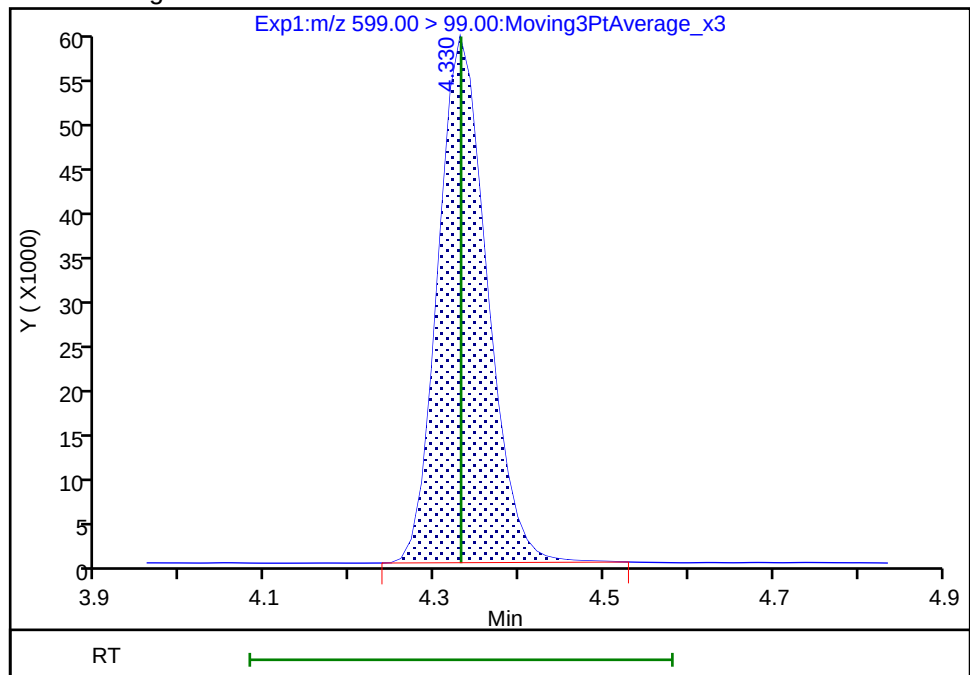
RT: 4.33
Area: 240194
Amount: 1.021686
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 239114
Amount: 1.015281
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

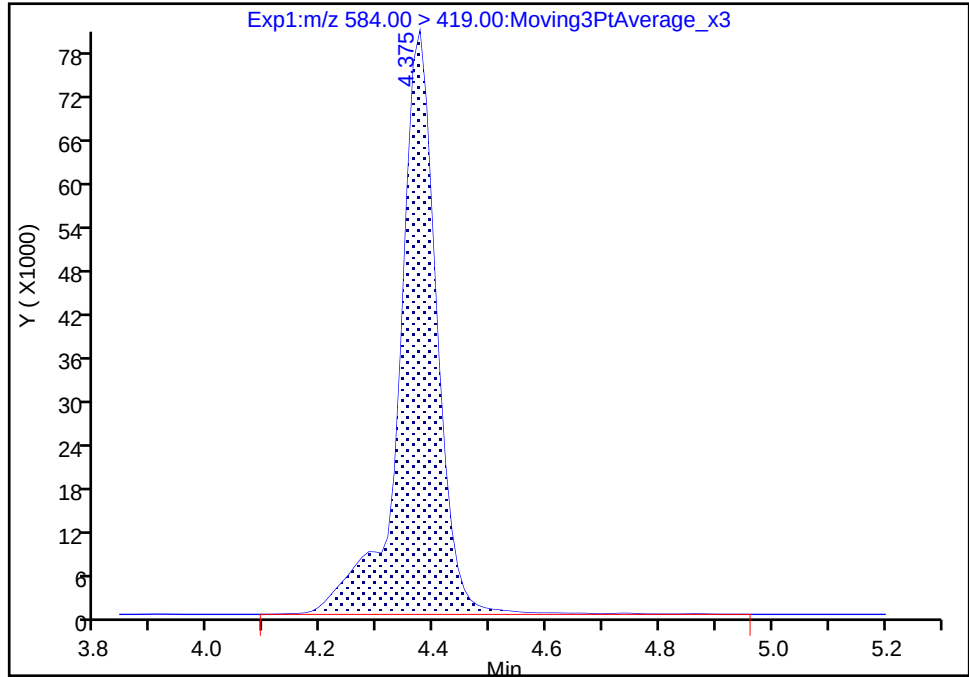
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

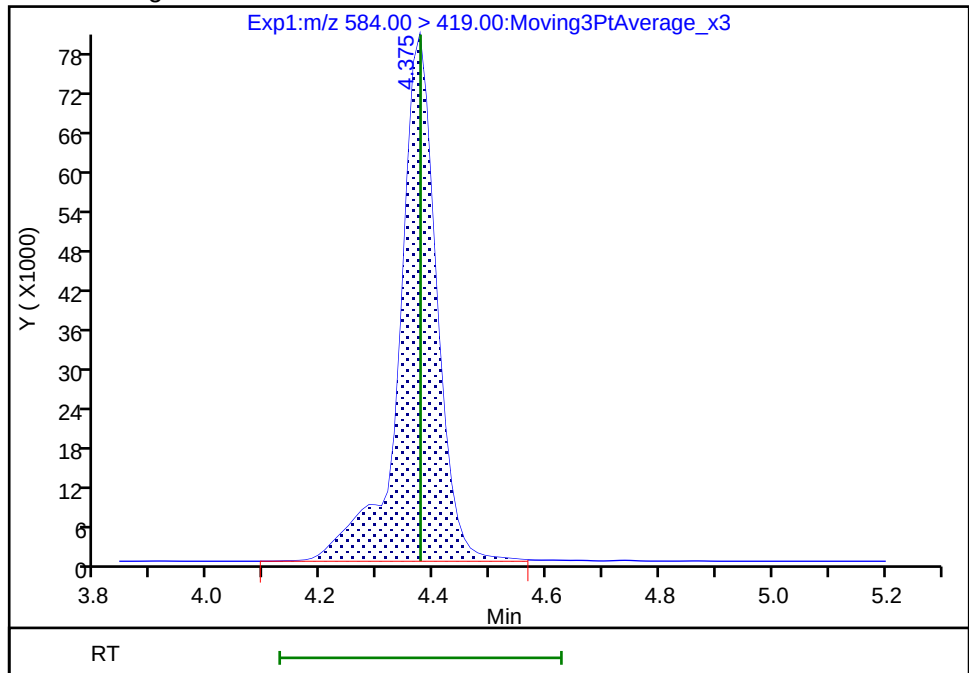
RT: 4.37
Area: 373474
Amount: 0.999098
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 371775
Amount: 0.994553
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

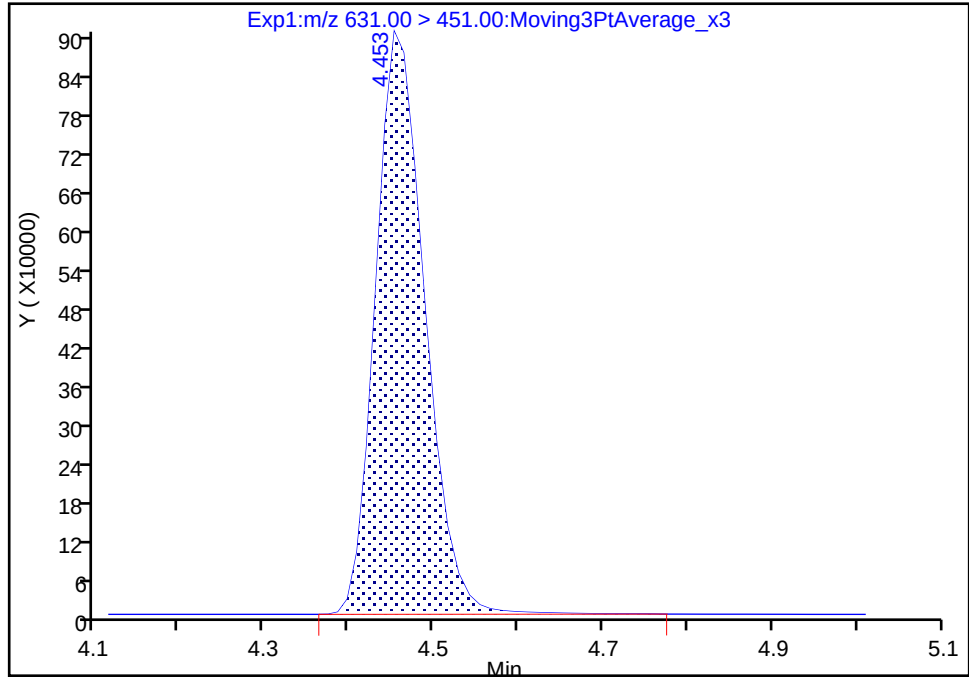
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

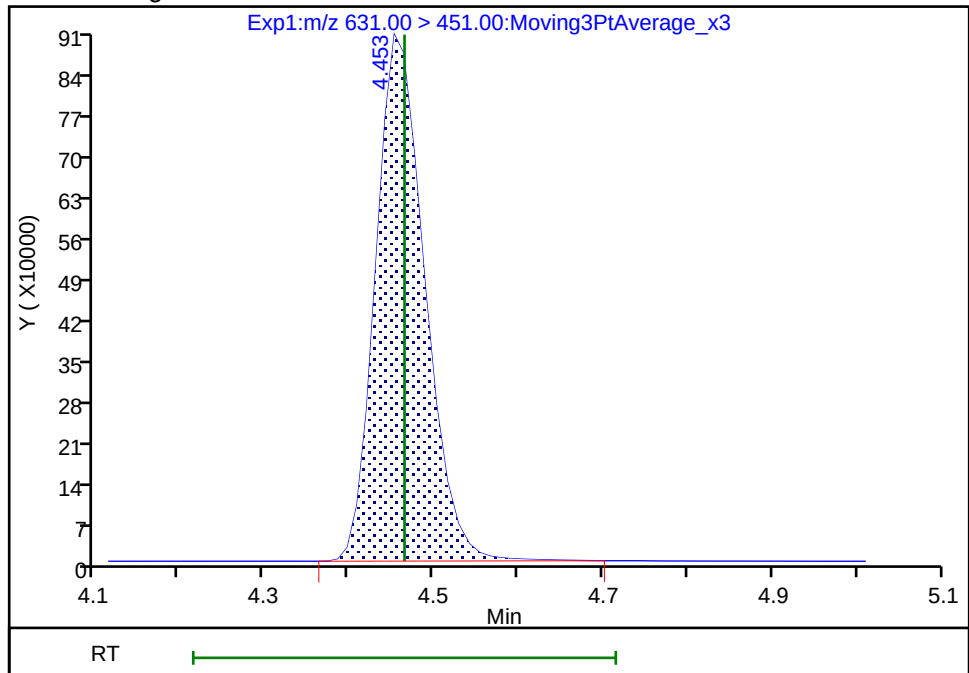
RT: 4.45
Area: 3631196
Amount: 1.225496
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 3623989
Amount: 1.223064
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

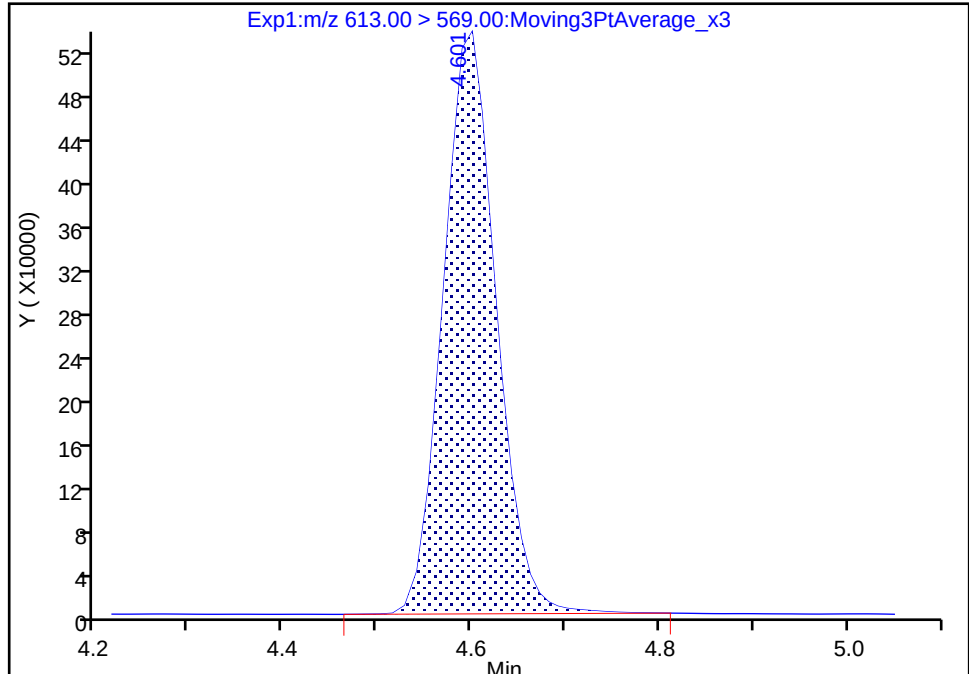
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

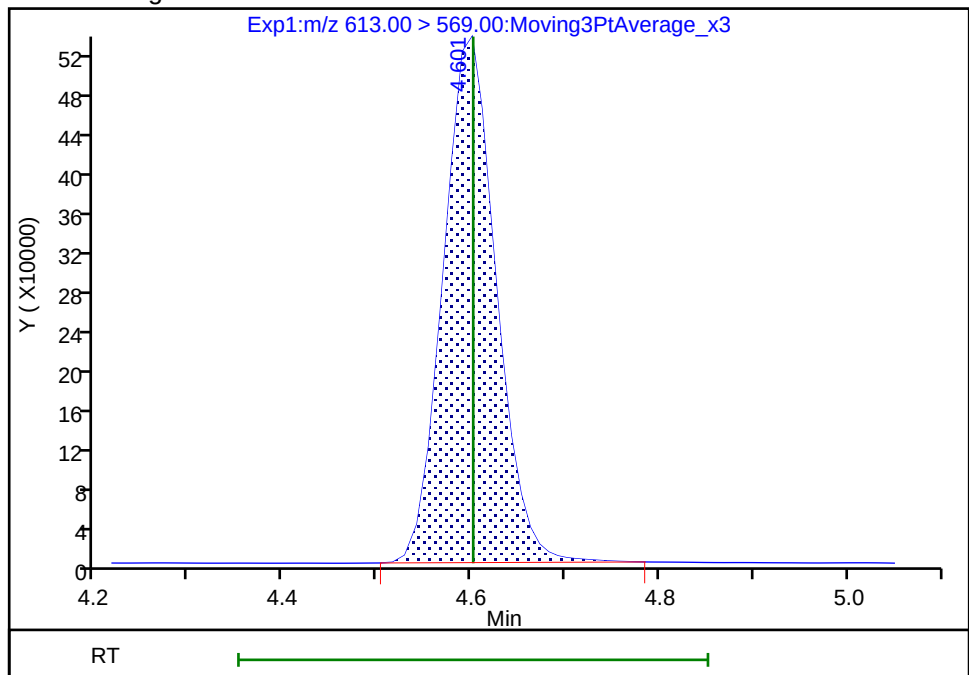
RT: 4.60
Area: 2081399
Amount: 1.012875
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 2077504
Amount: 1.010979
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

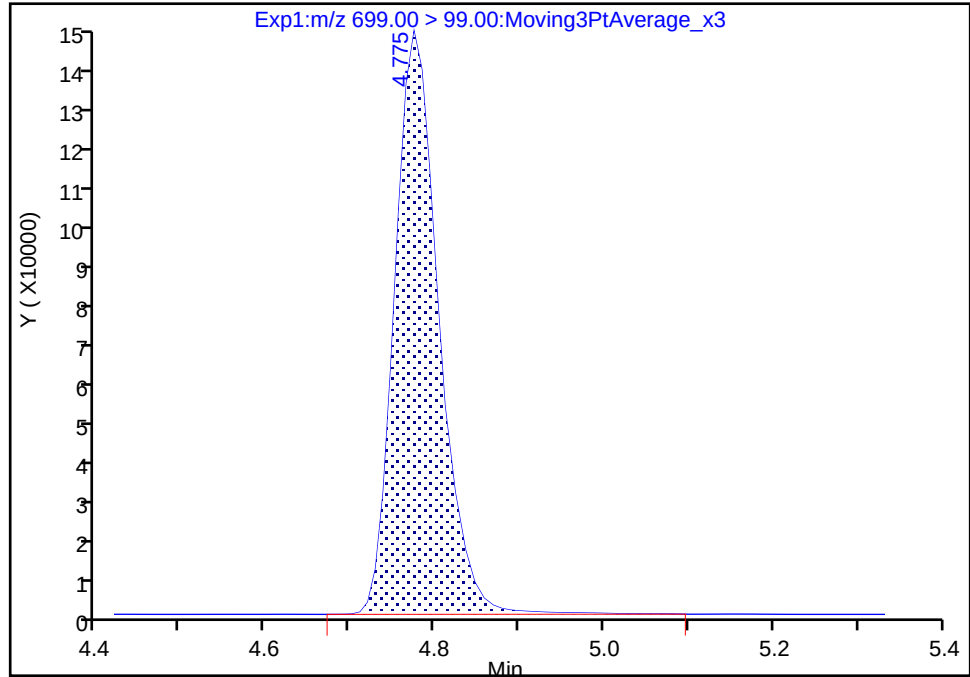
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

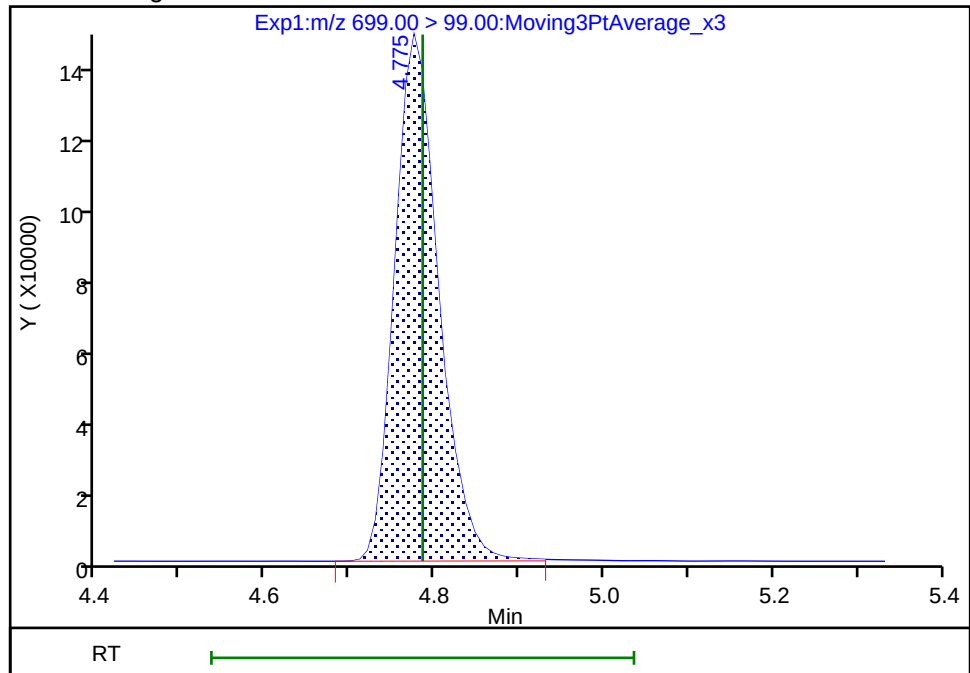
RT: 4.78
Area: 510305
Amount: 0.973351
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 507848
Amount: 0.973351
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d

Injection Date: 16-Nov-2022 21:59:15

Instrument ID: LC812

Lims ID: CCV L4

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

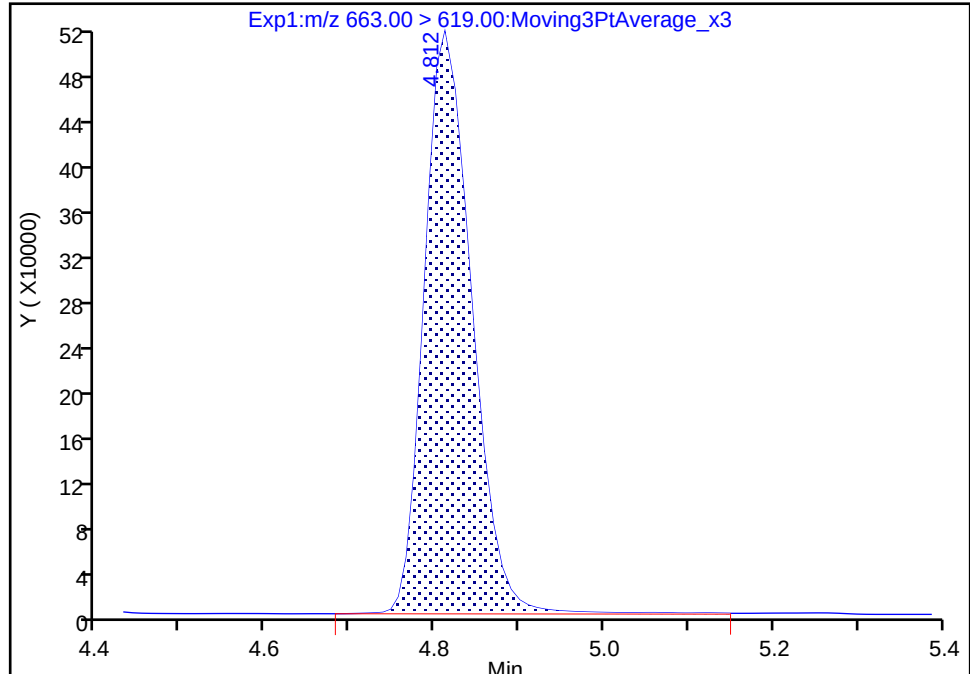
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

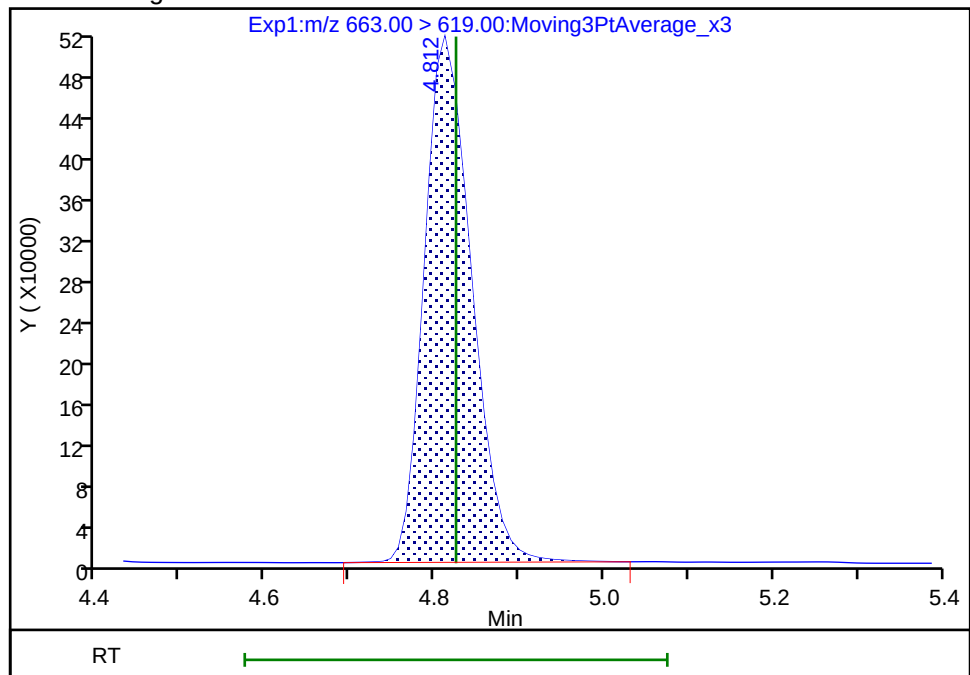
RT: 4.81
Area: 2006231
Amount: 1.065255
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1986972
Amount: 1.055029
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:06:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

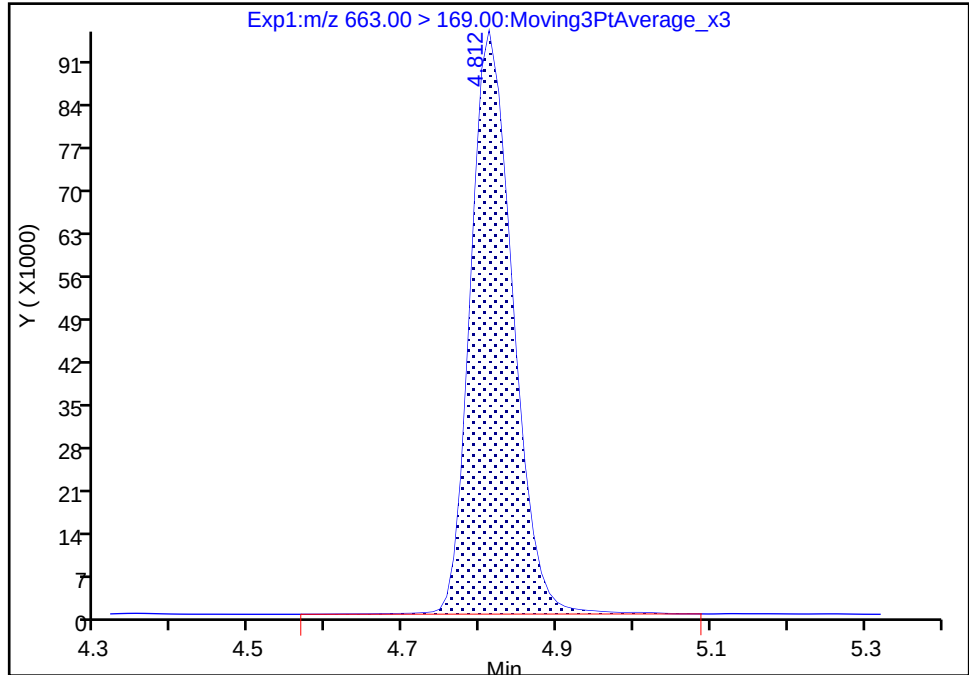
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

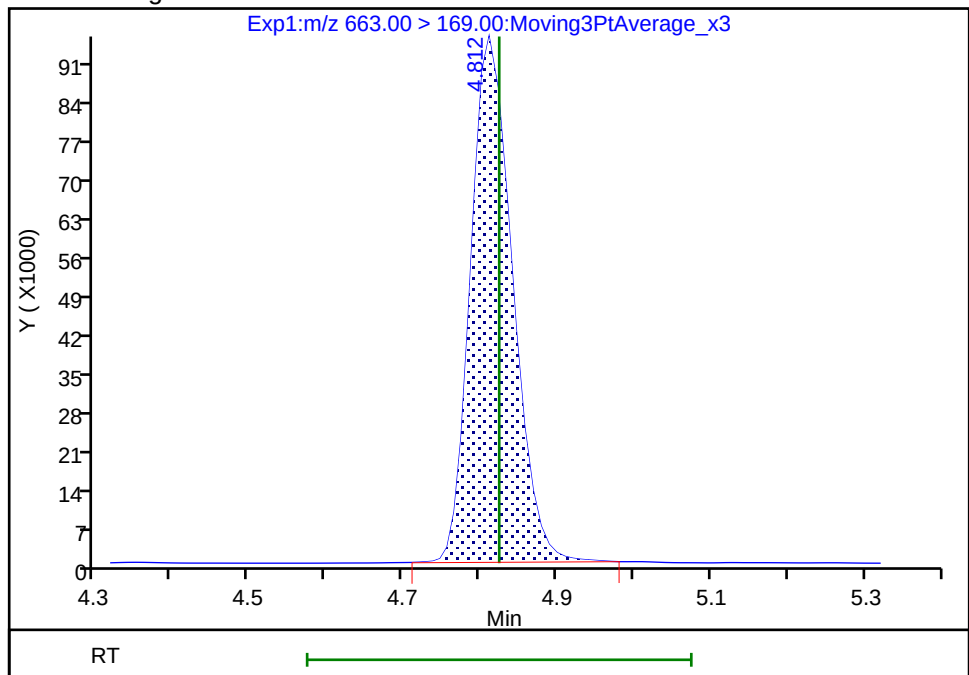
RT: 4.81
Area: 363566
Amount: 1.065255
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 360272
Amount: 1.055029
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 647 of 97811/21/2022
4:10 PM

Eurofins Burlington

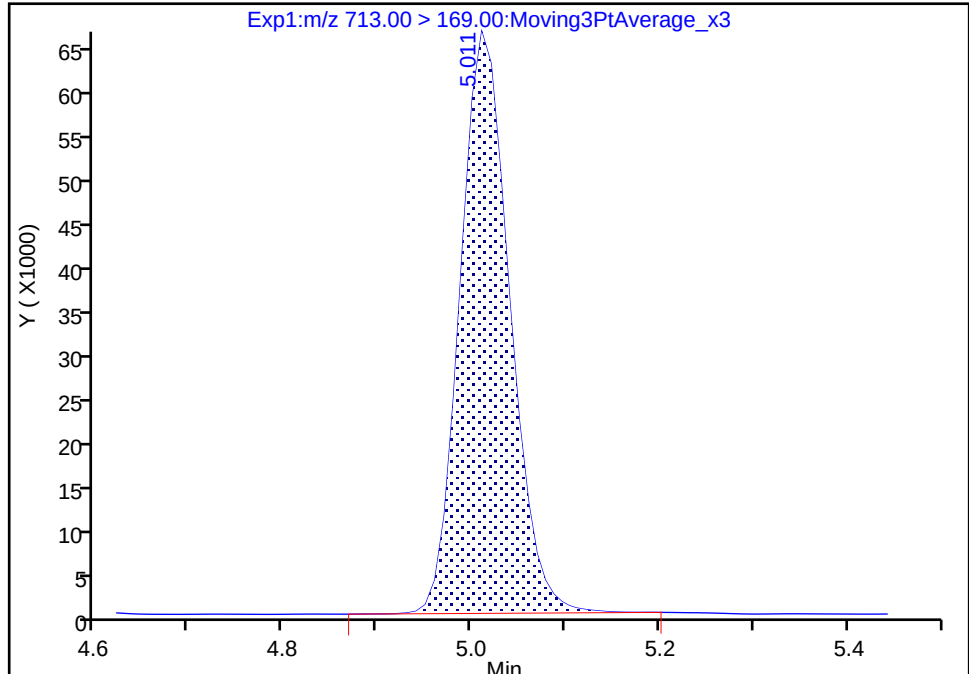
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

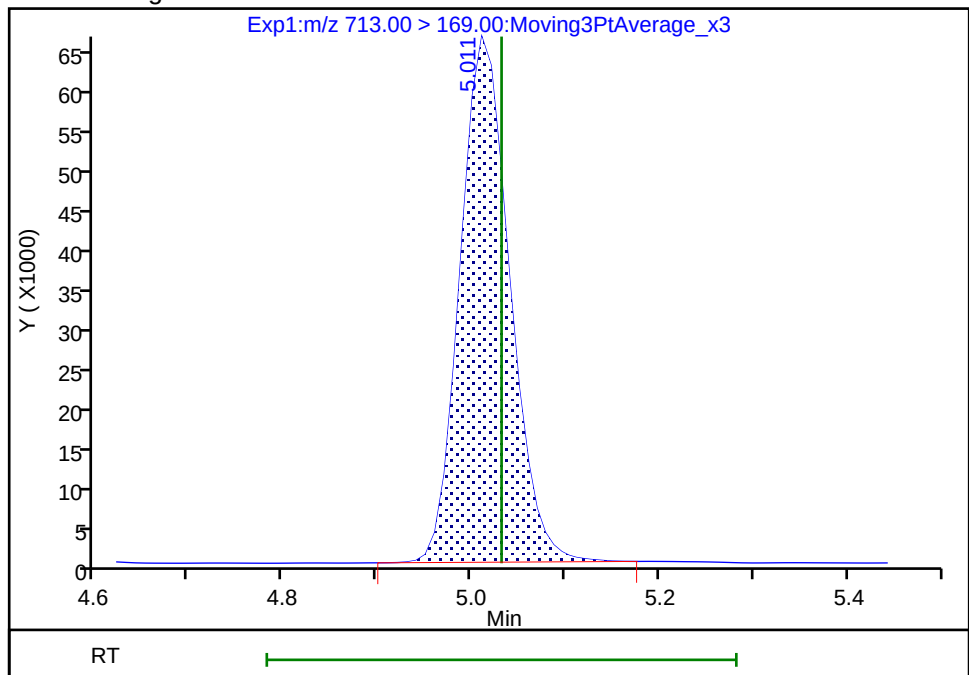
RT: 5.01
Area: 243489
Amount: 0.886268
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 243245
Amount: 0.885379
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

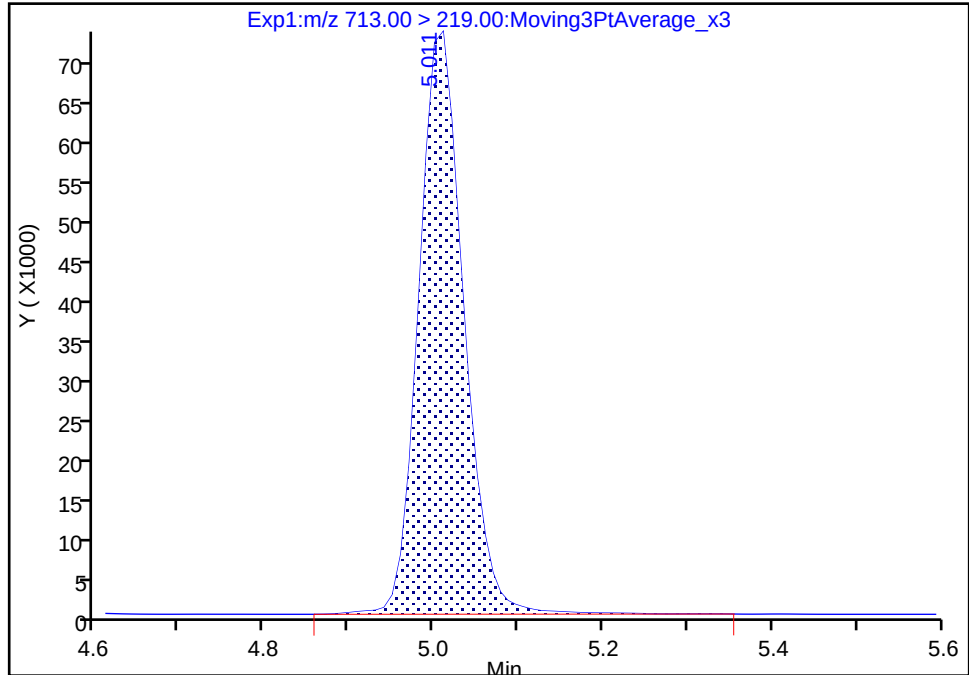
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

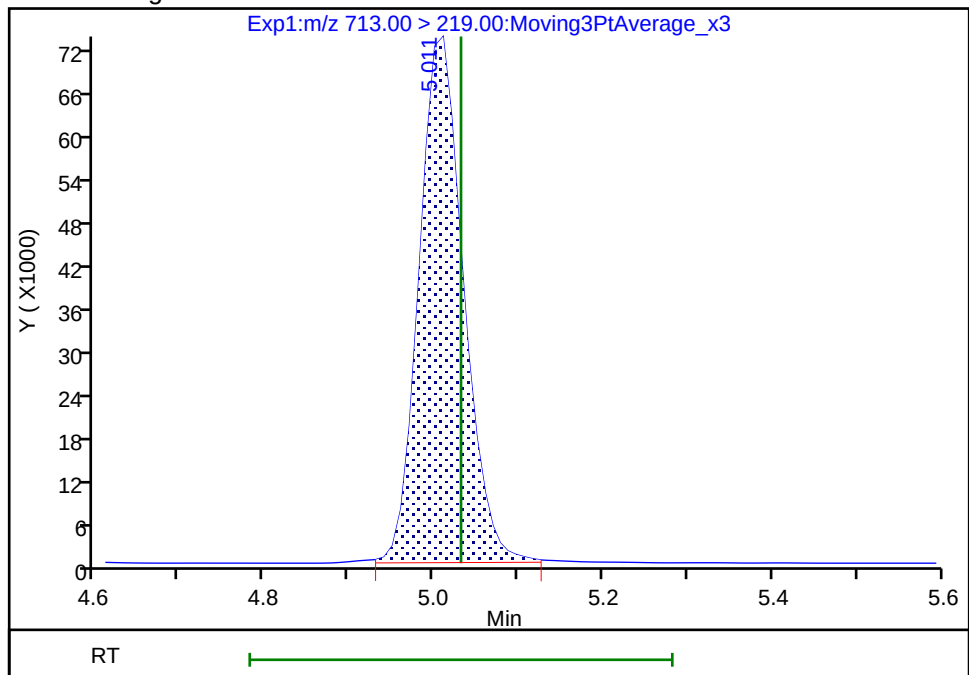
RT: 5.01
Area: 270490
Amount: 0.886268
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 267280
Amount: 0.885379
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

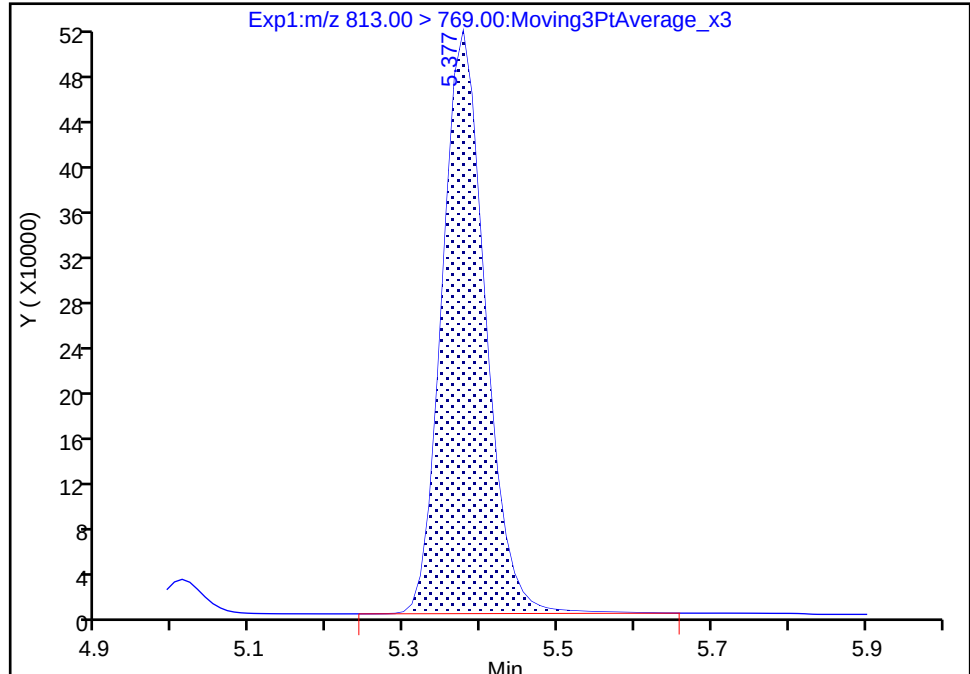
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

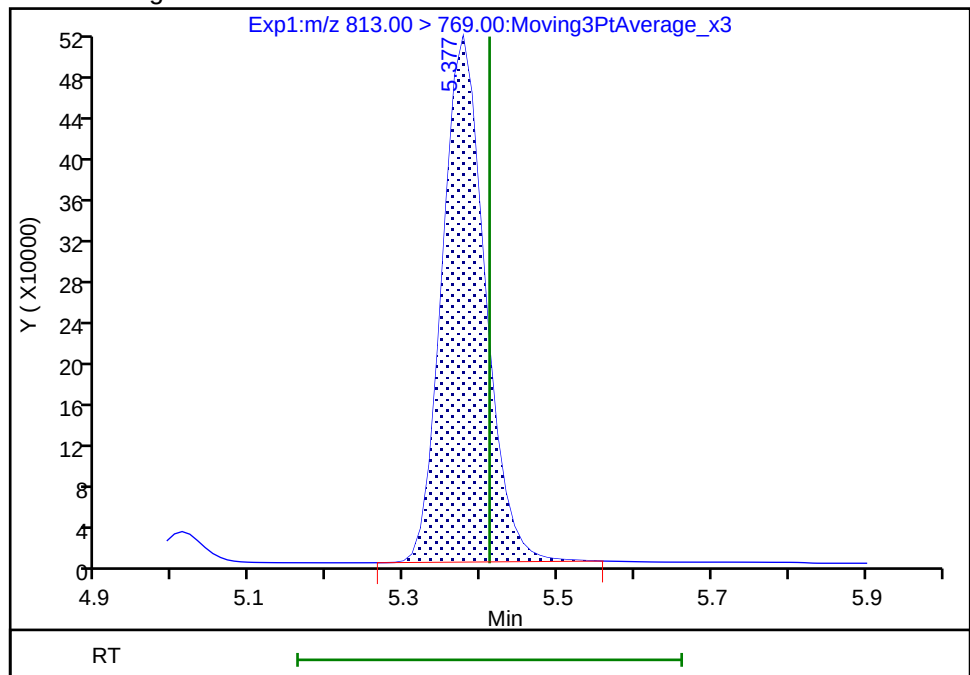
RT: 5.38
Area: 1982879
Amount: 1.069936
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 1969190
Amount: 1.062361
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d

Injection Date: 16-Nov-2022 21:59:15

Instrument ID: LC812

Lims ID: CCV L4

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

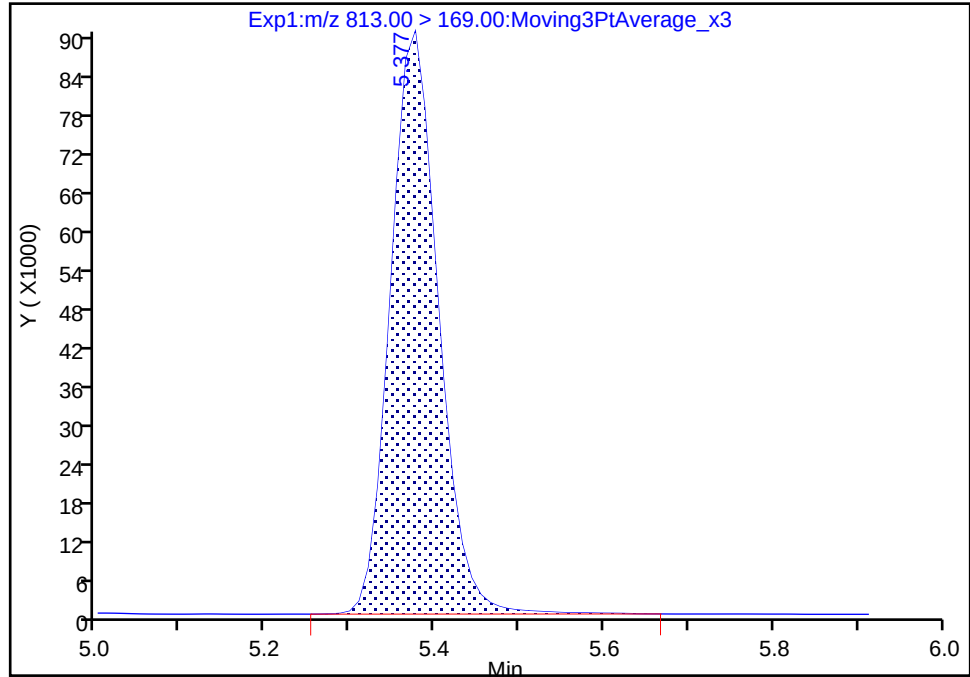
EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

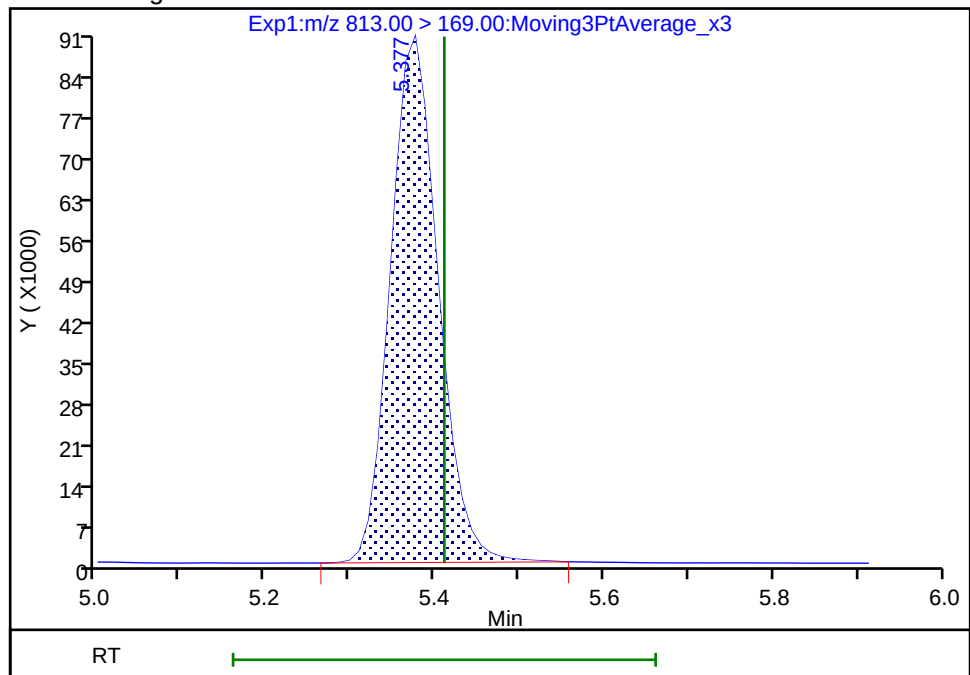
RT: 5.38
Area: 354678
Amount: 1.069936
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 352390
Amount: 1.062361
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

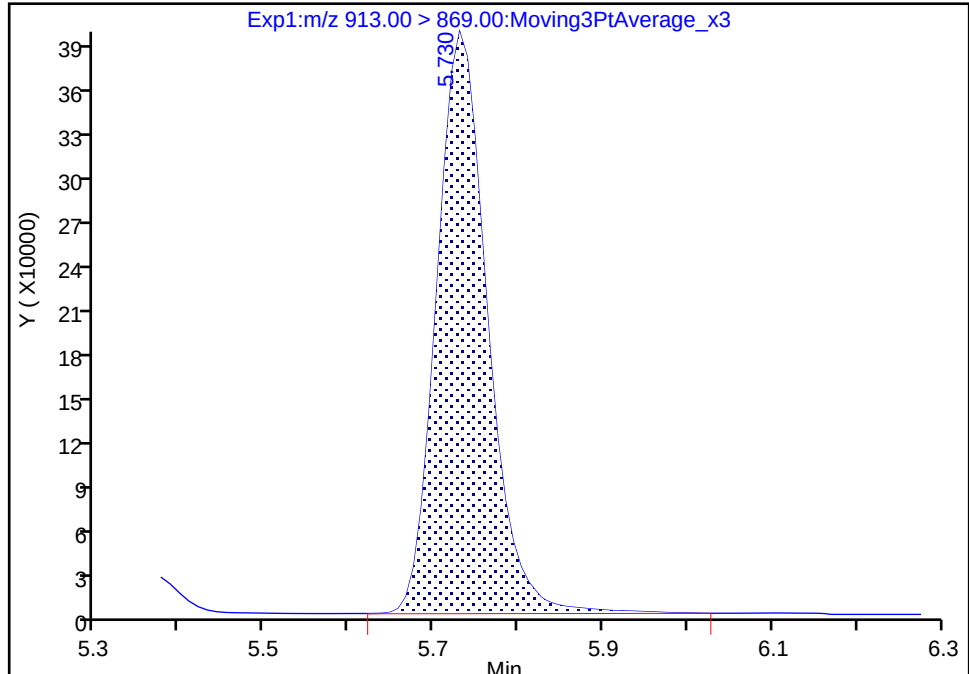
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d
Injection Date: 16-Nov-2022 21:59:15 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

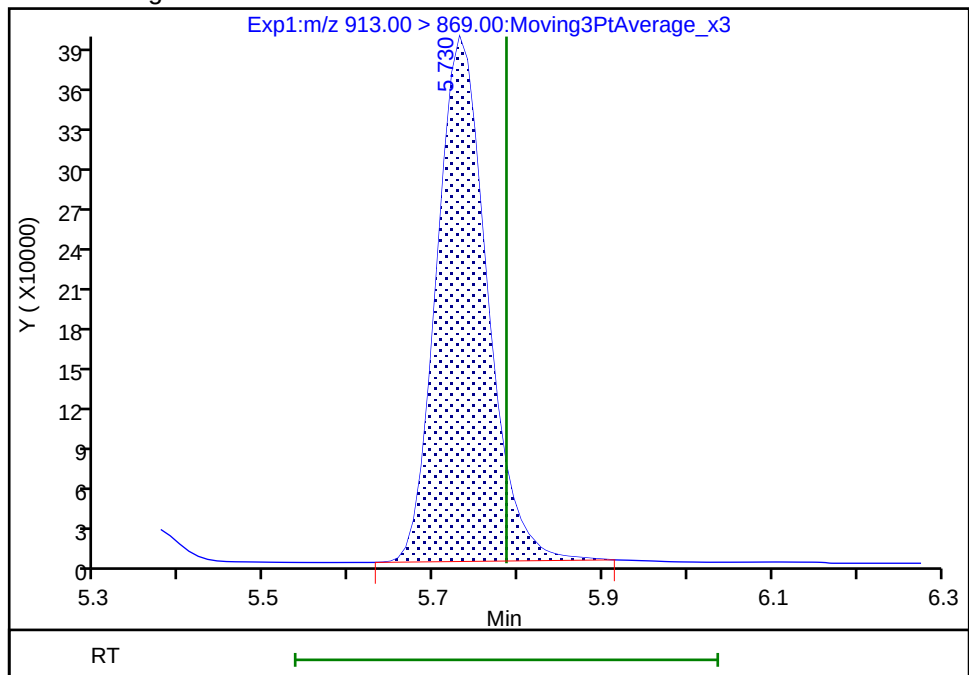
RT: 5.73
Area: 1640472
Amount: 1.112889
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 1616658
Amount: 1.096734
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D15.d

Injection Date: 16-Nov-2022 21:59:15

Instrument ID: LC812

Lims ID: CCV L4

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

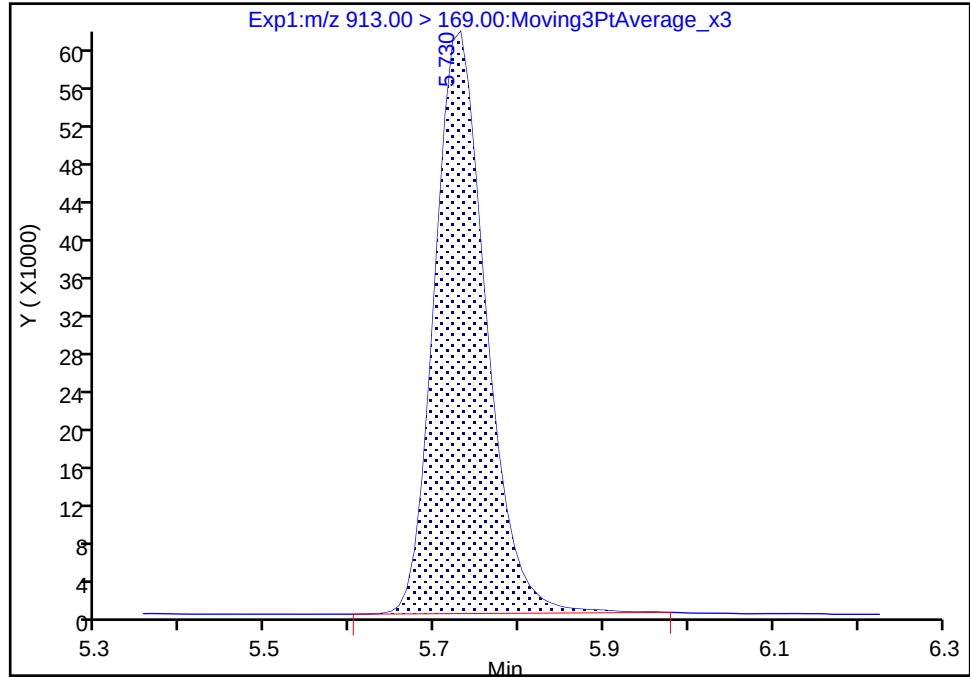
EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

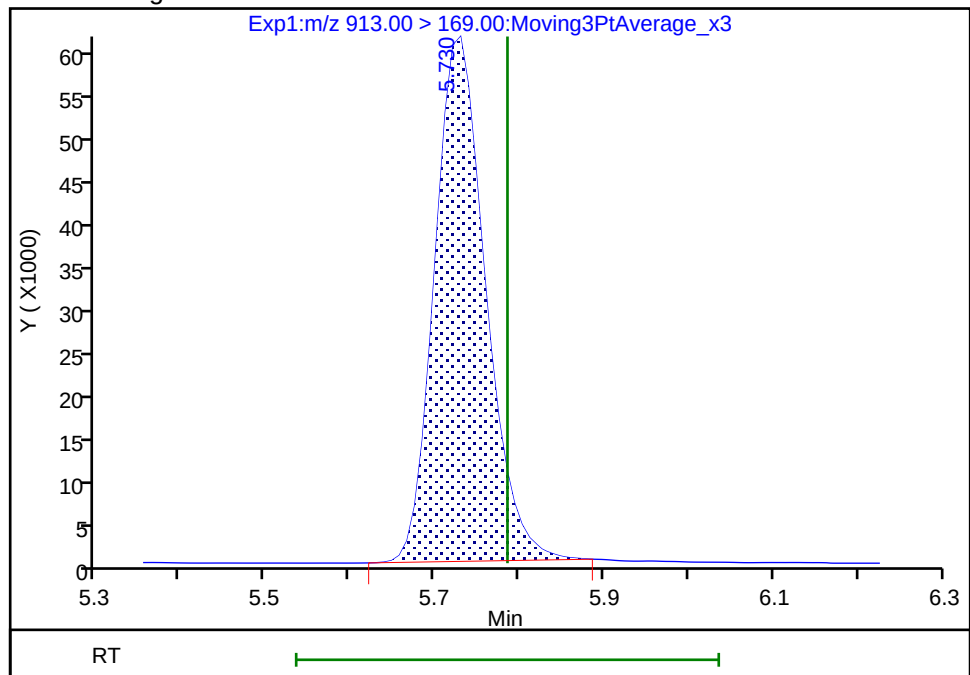
RT: 5.73
Area: 261138
Amount: 1.112889
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 257887
Amount: 1.096734
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:07:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Lab Sample ID: CCV 200-185848/26 Calibration Date: 11/16/2022 23:29

Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14

Lab File ID: PA221116D26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.012	0.9614		2.37	2.50	-5.0	
Perfluoropentanoic acid (PFPeA)	AveID	1.070	1.046		2.44	2.50	-2.3	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.153	1.077		2.07	2.21	-6.6	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.713	2.905		2.50	2.34	7.1	
Perfluorohexanoic acid (PFHxA)	AveID	1.086	1.009		2.32	2.50	-7.1	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.372	1.277		2.18	2.35	-6.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.092	1.025		2.35	2.50	-6.1	
Perfluoroheptanoic acid (PFHpA)	AveID	1.114	1.033		2.32	2.50	-7.3	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.163	1.095		2.14	2.28	-5.9	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.558	5.667		2.40	2.36	2.0	
6:2 FTS	AveID	1.822	2.143		2.79	2.37	17.7	
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.409	1.390		2.35	2.38	-1.3	
Perfluorooctanoic acid (PFOA)	AveID	1.132	1.001		2.21	2.50	-11.5	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.215	1.161		2.22	2.32	-4.5	
Perfluorononanoic acid (PFNA)	AveID	1.050	0.9844		2.35	2.50	-6.2	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	AveID	2.438	2.683		2.56	2.33	10.1	
Perfluorononanesulfonic acid (PFNS)	AveID	0.8853	0.8664		2.35	2.40	-2.1	
8:2 FTS	AveID	1.239	1.556		3.01	2.40	25.5	
Perfluorodecanoic acid (PFDA)	AveID	1.075	1.070		2.49	2.50	-0.5	
Perfluorooctanesulfonamide (FOSA)	AveID	1.010	1.029		2.55	2.50	1.9	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9248	0.8683		2.35	2.50	-6.1	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6900	0.7166		2.50	2.41	3.9	
Perfluoroundecanoic acid (PFUnA)	AveID	1.043	1.037		2.49	2.50	-0.6	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9137	0.8711		2.38	2.50	-4.7	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	AveID	3.172	4.086		3.03	2.36	28.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.069	1.043		2.44	2.50	-2.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.6729	0.9668		3.46	2.41	43.7	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2805	0.2925		2.52	2.42	4.3	

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Lab Sample ID: CCV 200-185848/26 Calibration Date: 11/16/2022 23:29
 Instrument ID: LC812 Calib Start Date: 09/14/2022 10:33
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/14/2022 11:14
 Lab File ID: PA221116D26.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9793	0.9683		2.47	2.50	-1.1	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1555	0.1360		2.19	2.50	-12.6	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.8985		2.51	2.50	0.3	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7228	0.7774		2.69	2.50	7.6	
13C4 PFBA	Ave	1.220	1.115		1.14	1.25	-8.6	
13C5 PFPeA	Ave	0.9597	0.8379		1.09	1.25	-12.7	
13C3 PFBS	Ave	0.9722	0.9066		1.08	1.16	-6.8	
M2-4:2 FTS	Ave	0.0881	0.0831		1.10	1.17	-5.7	
13C2 PFHxA	Ave	0.9758	0.9173		1.18	1.25	-6.0	
13C3 HFPO-DA	Ave	0.1832	0.1655		1.13	1.25	-9.6	
13C4 PFHpA	Ave	0.9588	0.9294		1.21	1.25	-3.1	50.0
18O2 PFHxS	Ave	0.6942	0.6648		1.13	1.18	-4.2	50.0
M2-6:2 FTS	Ave	0.1186	0.1151		1.15	1.19	-2.9	
13C4 PFOA	Ave	1.025	1.045		1.27	1.25	1.9	50.0
13C4 PFOS	Ave	0.4574	0.4463		1.17	1.20	-2.4	50.0
13C5 PFNA	Ave	1.009	1.025		1.27	1.25	1.6	50.0
13C2 PFDA	Ave	0.9801	1.020		1.30	1.25	4.1	
M2-8:2 FTS	Ave	0.1402	0.1363		1.16	1.20	-2.8	
13C8 FOSA	Ave	0.7983	0.8201		1.28	1.25	2.7	
d3-NMeFOSAA	Ave	0.1380	0.2143		1.94	1.25	55.3	
13C2 PFUnA	Ave	0.8025	0.9104		1.42	1.25	13.4	
d5-NEtFOSAA	Ave	0.1370	0.2043		1.87	1.25	49.2	
13C2 PFDoA	Ave	0.7827	0.9468		1.51	1.25	21.0	
13C2 PFTeDA	Ave	0.6687	0.8307		1.55	1.25	24.2	
13C2 PFHxDA	Ave	0.7383	1.016		1.72	1.25	37.6	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2022 23:29:18 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0053360-026 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:19:53 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 15:14:01

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	2.068	0.008	0.601	2686321	1.14		91.4	6225	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.000	5165207	2.37		95.0	422	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.386	2.373	0.013	0.691	2019065	1.09		87.3	2923	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.373	0.013	1.000	4222322	2.44		97.7	110	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.400	2.386	0.014	0.695	2031631	1.08		93.2	211789	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.400	2.400	0.0	1.000	4159729	2.06	Target=2.19	93.4	3537	
298.90 > 99.00	2.400	2.400	0.0	1.000	1996361		2.08(1.09-3.28)		1154	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.689	2.689	0.0	1.000	1086883	2.50		107	3955	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.778	187057	1.10		94.3	183	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.789	2210477	1.18		94.0	3433	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	4458663	2.32	Target=13.67	92.9	761	M
313.00 > 119.00	2.737	2.725	0.012	1.004	315192		14.15(6.83-20.50)		485	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.737	2.725	0.012	0.883	3838425	2.18	Target=3.00	93.1	2414	
349.00 > 99.00	2.737	2.725	0.012	0.883	1286830		2.98(1.50-4.51)		2225	
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.835	2.823	0.012	0.820	398916	1.13		90.4	1760	M

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	2.823	0.012	1.000	817940	2.35		93.9	2432	
D 11 18O2 PFHxS										
403.00 > 84.00	3.098	3.088	0.010	0.897	1515584	1.13		95.8	2703	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.098	3.088	0.010	1.000	3193246	2.14	Target=3.60	94.1	2100	M
399.00 > 99.00	3.098	3.088	0.010	1.000	890612		3.59(1.80-5.40)		886	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.098	3.088	0.010	0.897	2239619	1.21		96.9	3813	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.098	3.088	0.010	1.000	4626380	2.32	Target=3.76	92.7	840	M
363.00 > 169.00	3.098	3.088	0.010	1.000	1198249		3.86(1.88-5.65)		1166	M
77 DONA										M
377.00 > 251.00	3.143	3.121	0.022	0.833	11482351	2.40	Target=3.10	102	5845	M
377.00 > 85.00	3.132	3.121	0.011	0.830	3546626		3.24(1.55-4.65)		2259	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.438	3.430	0.008	0.911	2846994	2.35	Target=5.32	98.7	3003	M
449.00 > 99.00	3.438	3.430	0.008	0.911	536506		5.31(2.66-7.97)		1617	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.438	3.430	0.008	0.995	263567	1.15		97.1	672	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.438	3.430	0.008	1.000	1127500	2.79		118	1772	M
D 14 13C4 PFOA										
417.00 > 372.00	3.455	3.439	0.016	1.000	2516980	1.27		102	4099	
* 62 13C2 PFOA										
415.00 > 370.00	3.455	3.439	0.016		2409728	1.25			8205	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.455	3.439	0.016	1.000	5040121	2.21	Target=2.73	88.5	345	
413.00 > 169.00	3.455	3.439	0.016	1.000	1753938		2.87(1.37-4.10)		1748	M
D 18 13C4 PFOS										
503.00 > 80.00	3.772	3.764	0.008	1.092	1028073	1.17		97.6	1996	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.772	3.764	0.008	1.000	2316809	2.22	Target=5.09	95.5	387	M
499.00 > 99.00	3.762	3.764	-0.002	0.997	460753		5.03(2.55-7.64)		370	M
D 19 13C5 PFNA										
468.00 > 423.00	3.782	3.783	-0.001	1.095	2468892	1.27		102	5707	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.791	3.783	0.008	1.003	4860513	2.34	Target=7.76	93.8	990	
463.00 > 169.00	3.782	3.783	-0.001	1.000	563840		8.62(3.88-11.63)		2206	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.939	3.928	0.011	1.044	5377656	2.56		110	5684	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.061	0.0	1.076	1788809	2.35	Target=2.67	97.9	2886	
549.00 > 99.00	4.061	4.061	0.0	1.076	701032		2.55(1.34-4.01)		2912	
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.093	-0.001	1.184	2458451	1.30		104	4515	

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	4.092	4.093	-0.001	1.000	5263320	2.49	Target=9.83	99.5	1355	M
513.00 > 169.00	4.092	4.093	-0.001	1.000	497710		10.58(4.91-14.74)		762	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.093	0.011	1.188	314557	1.16		97.2	1154	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.092	4.093	-0.001	0.997	978742	3.01		126	1516	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.201	1976338	1.28		103	3531	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.138	0.012	1.000	4069024	2.55		102	1373	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.238	4.228	0.010	1.227	516381	1.94		155	477	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.238	4.238	0.0	1.000	896736	2.35		93.9	776	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.148	1485751	2.50	Target=2.59	104	3230	
599.00 > 99.00	4.331	4.331	0.0	1.148	573084		2.59(1.30-3.89)		1535	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.364	4.365	-0.001	1.263	2193774	1.42		113	3275	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.364	4.365	-0.001	1.000	4549559	2.49	Target=9.68	99.4	1222	M
563.00 > 169.00	4.364	4.365	-0.001	1.000	436182		10.43(4.84-14.53)		1515	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.364	4.376	-0.012	1.263	492332	1.86		149	925	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.376	0.0	1.003	857728	2.38		95.3	1025	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.465	-0.011	1.181	8279111	3.03		129	4930	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.601	4.602	-0.001	1.332	2281493	1.51		121	8578	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.602	-0.001	1.000	4759693	2.44	Target=6.96	97.6	299	M
613.00 > 169.00	4.601	4.602	-0.001	1.000	633321		7.52(3.48-10.43)		2141	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.622	-0.010	1.124	612033	3.46		144	1109	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.785	-0.009	1.266	608909	2.52	Target=0.52	104	2185	
699.00 > 99.00	4.776	4.785	-0.009	1.266	1228870		0.50(0.26-0.78)		2043	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.812	4.825	-0.013	1.046	4418123	2.47	Target=4.85	98.9	306	M
663.00 > 169.00	4.812	4.825	-0.013	1.046	835124		5.29(2.42-7.27)		941	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.451	2001818	1.55		124	8701	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.032	-0.020	1.000	544373	2.19	Target=0.99	87.4	1276	M
713.00 > 219.00	5.012	5.032	-0.020	1.000	576611		0.94(0.49-1.48)		1444	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	5.377	5.400	-0.023	1.556	2448037	1.72		138	6512	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.411	-0.034	1.000	4398940	2.51	Target=4.99	100	319	M
813.00 > 169.00	5.377	5.411	-0.034	1.000	749972		5.87(2.49-7.48)		1017	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.786	-0.055	1.066	3806196	2.69	Target=4.90	108	315	M
913.00 > 169.00	5.731	5.786	-0.055	1.066	604200		6.30(2.45-7.35)		1012	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00029

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

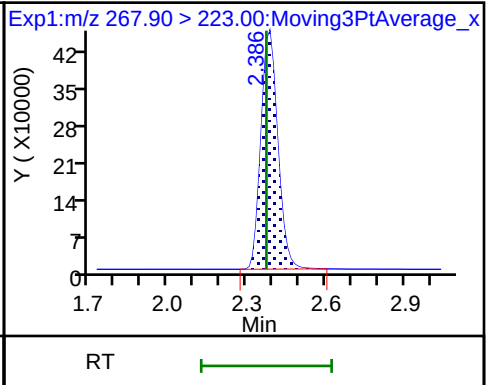
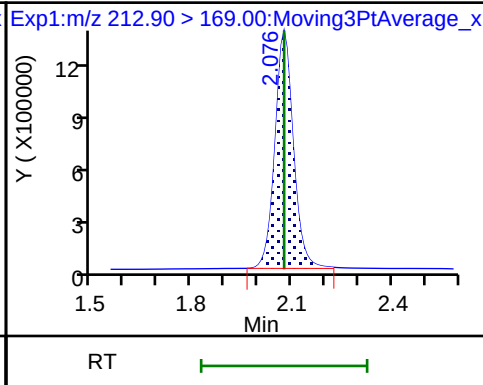
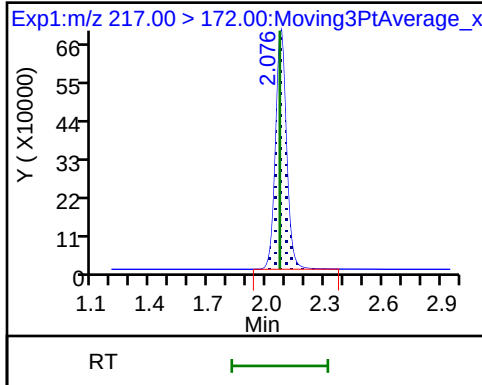
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

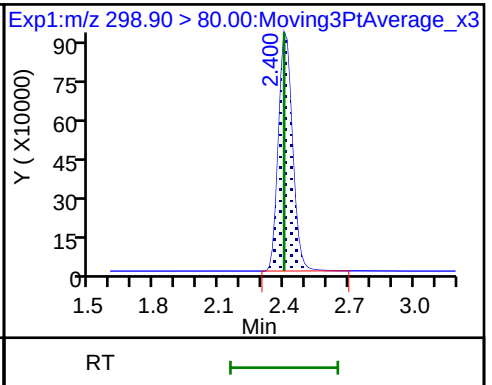
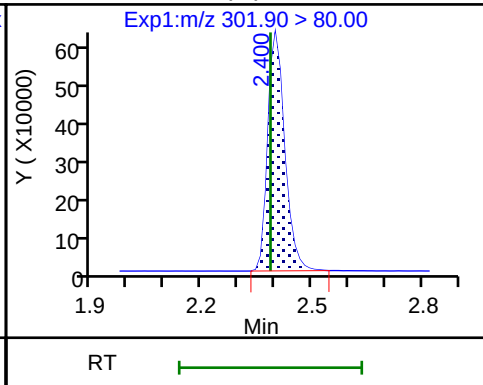
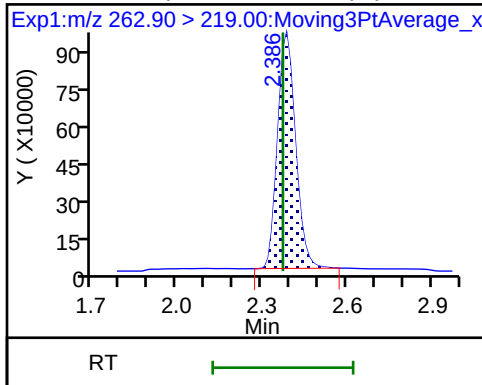
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

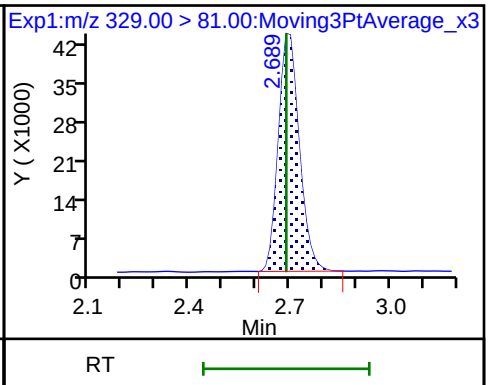
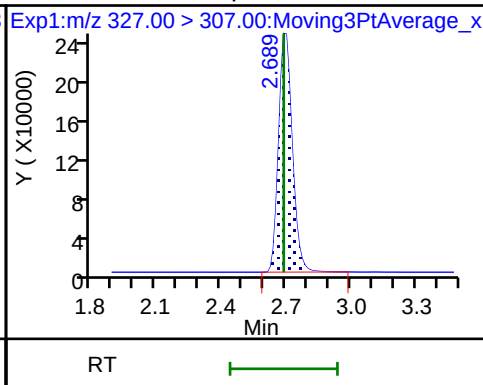
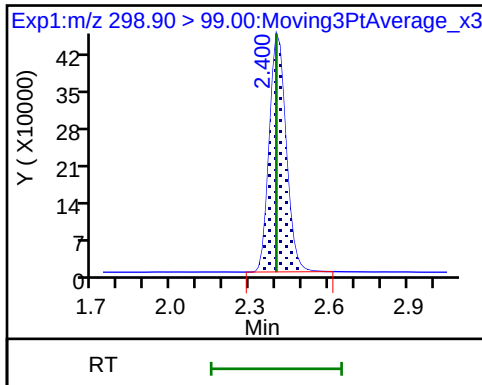
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

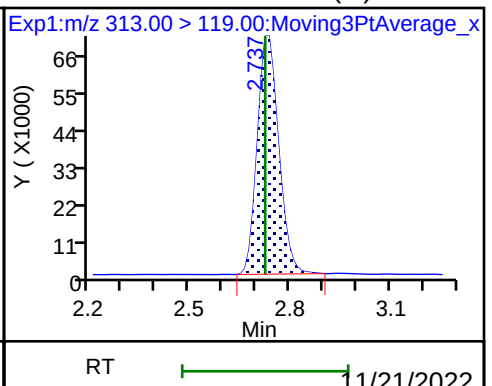
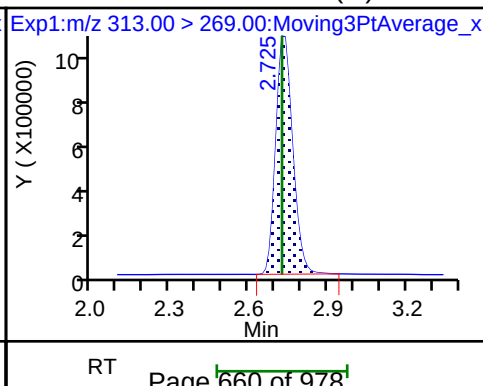
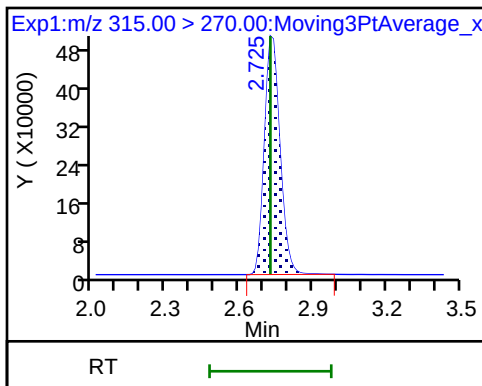
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

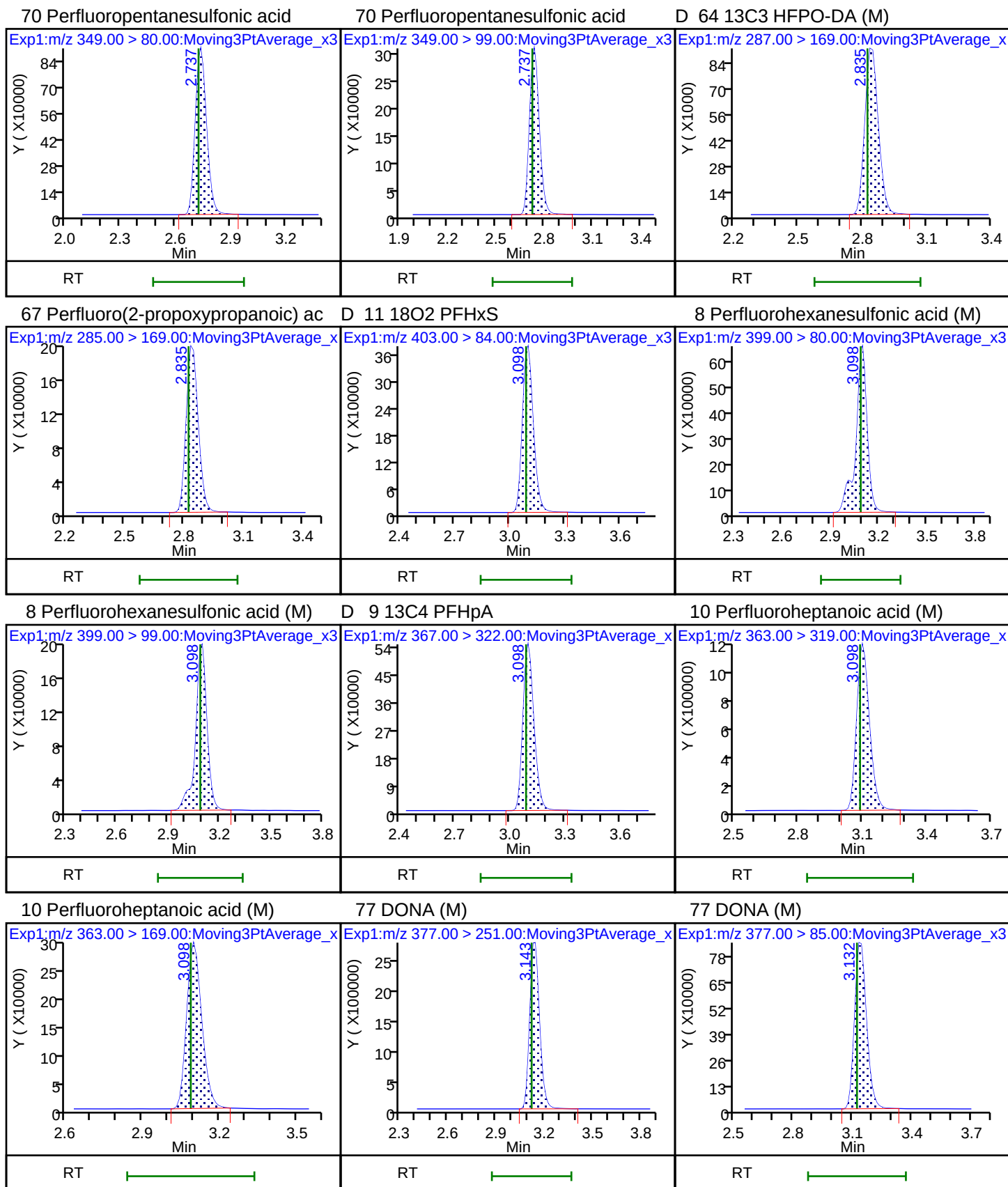


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

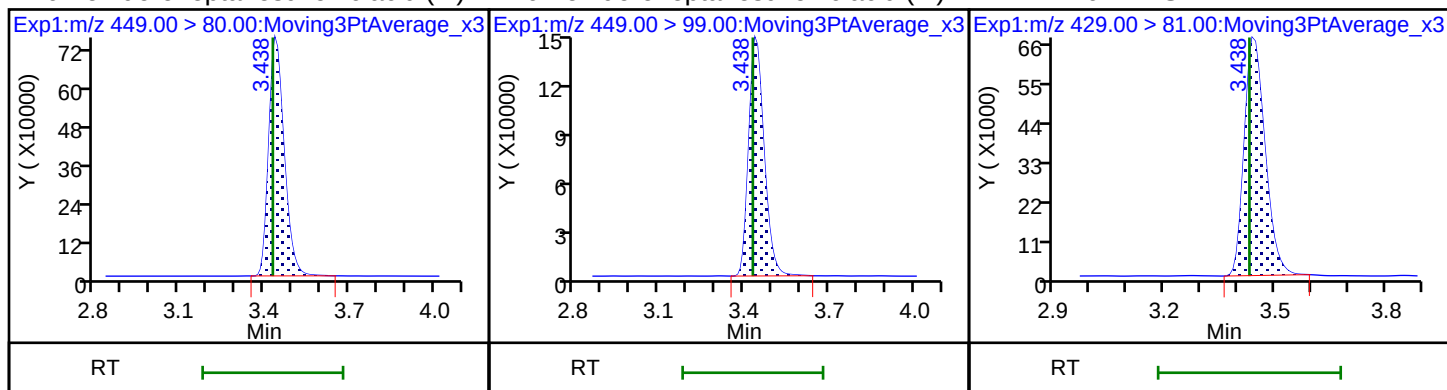




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

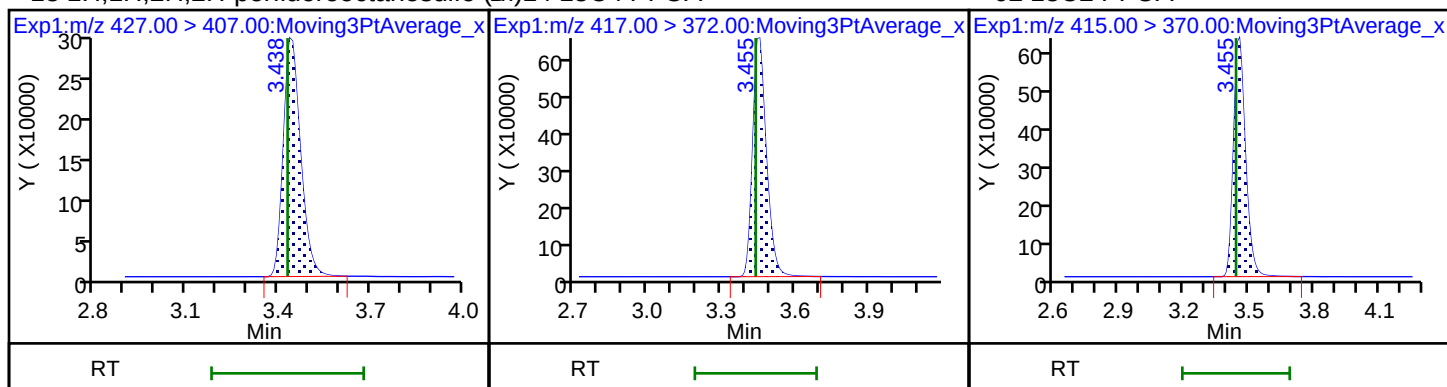
D 12 M2-6:2 FTS



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

14 13C4 PFOA

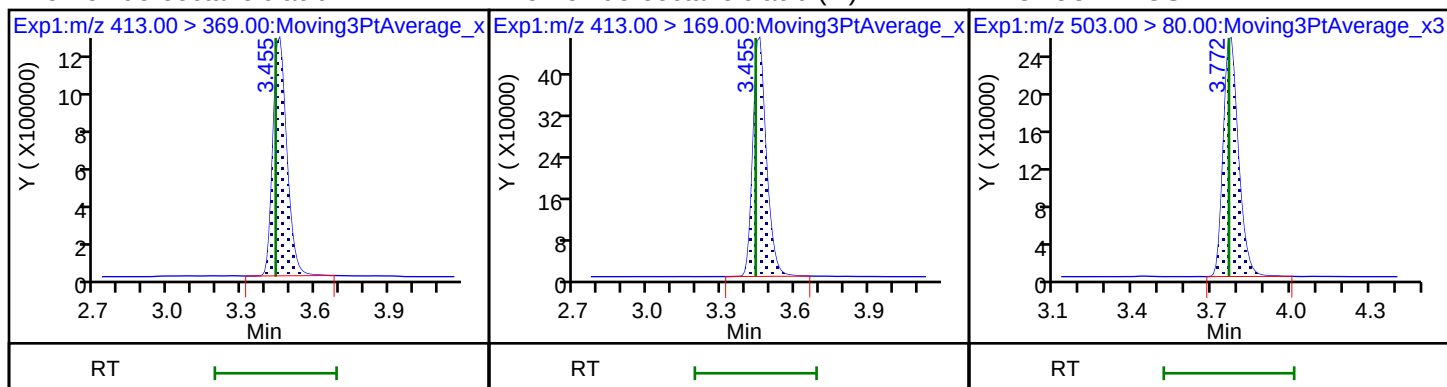
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

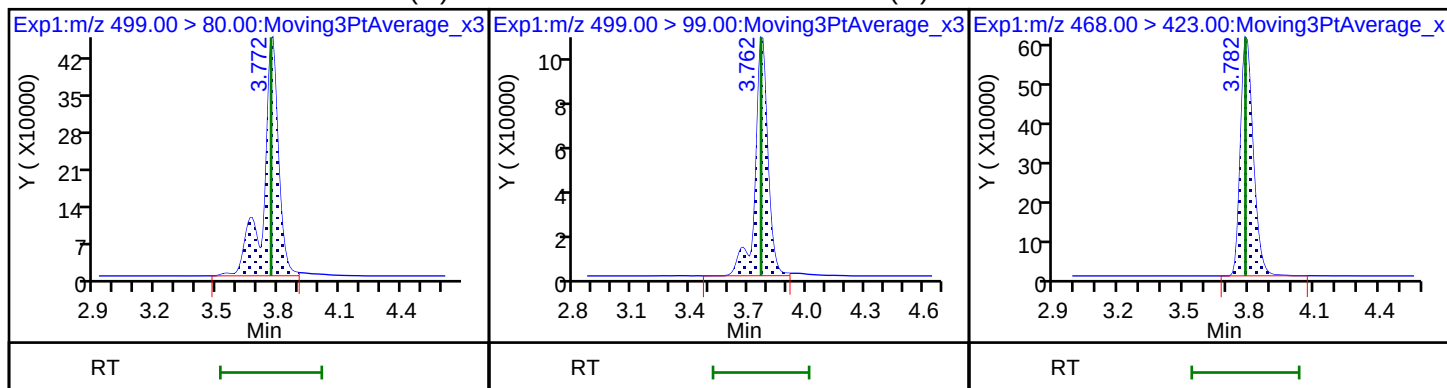
D 18 13C4 PFOS

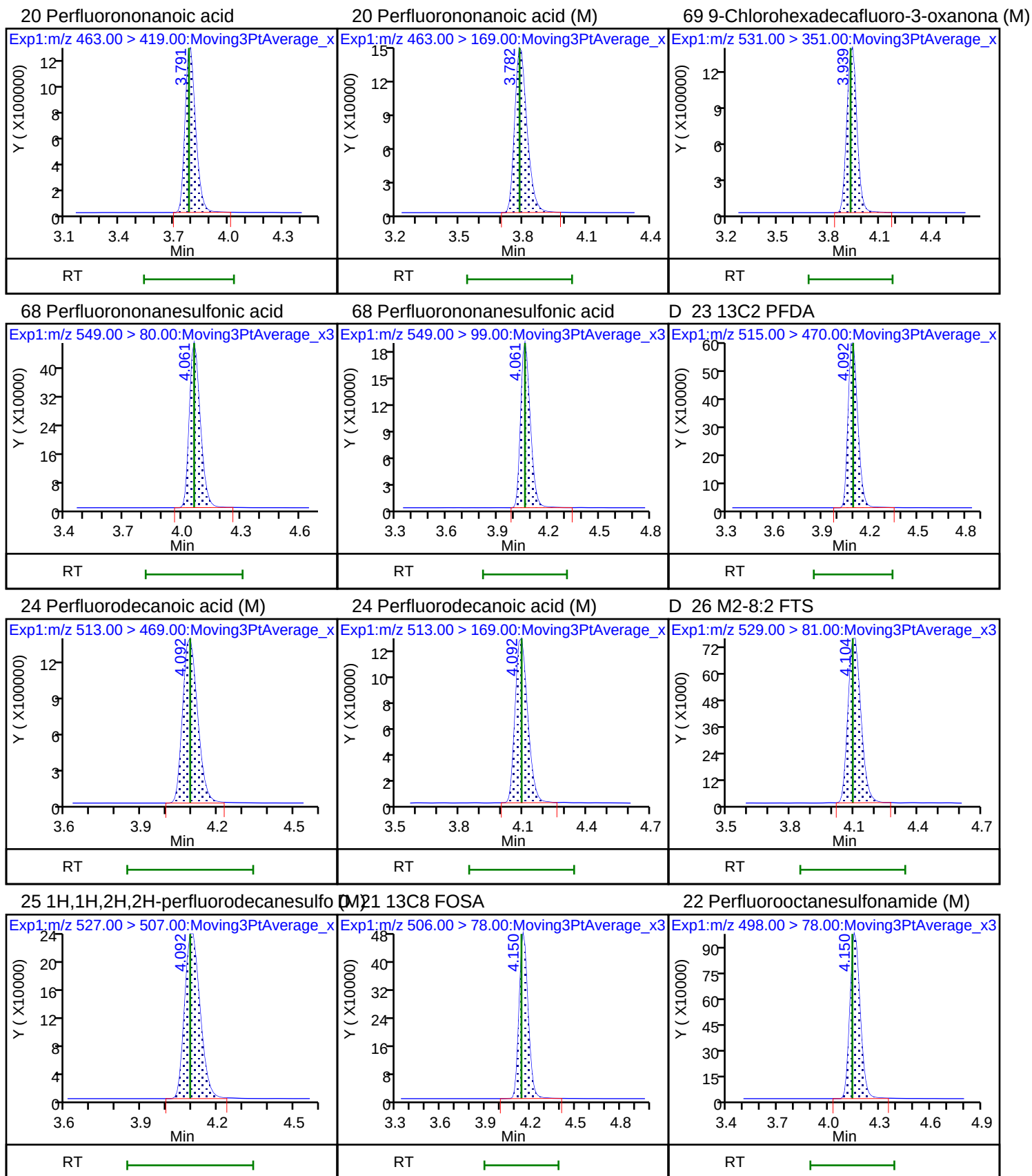


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

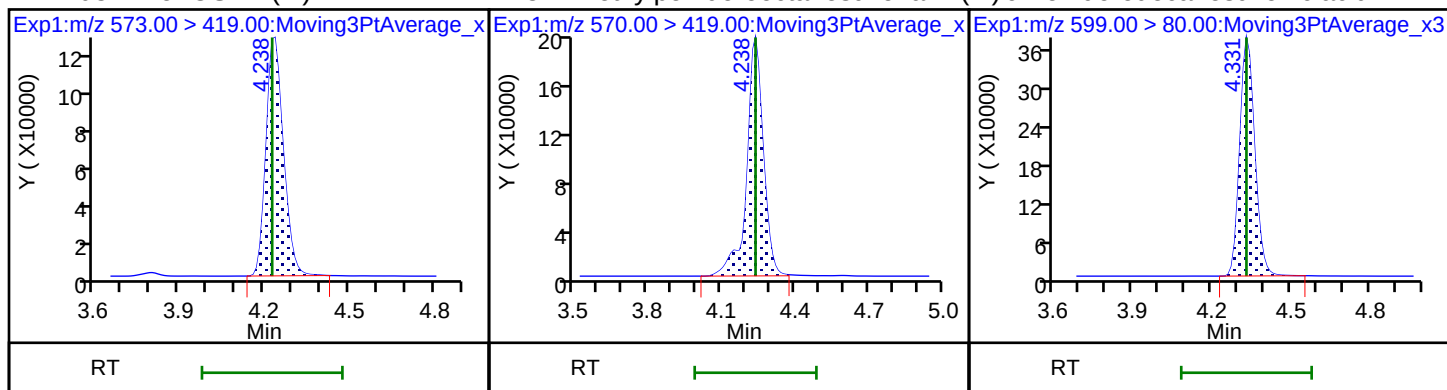




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

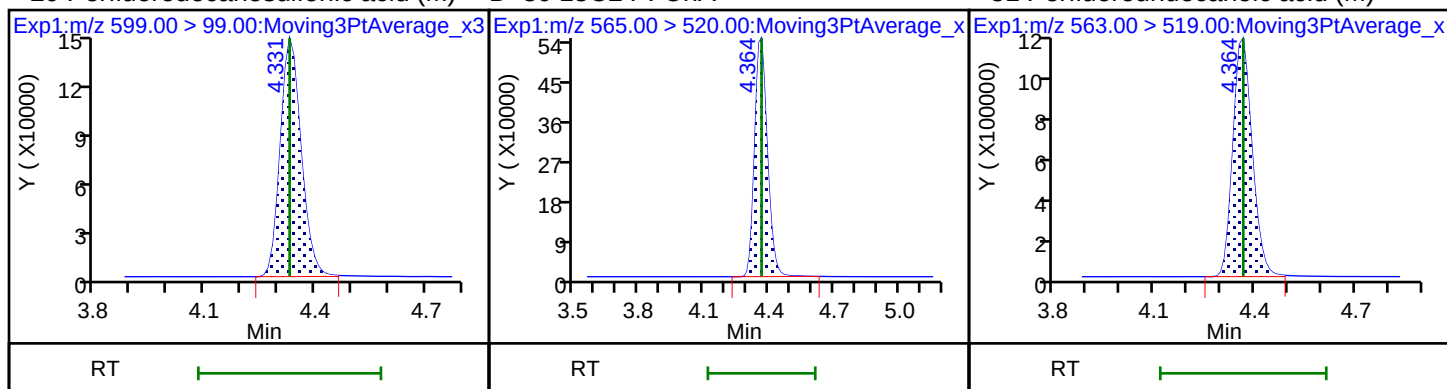
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

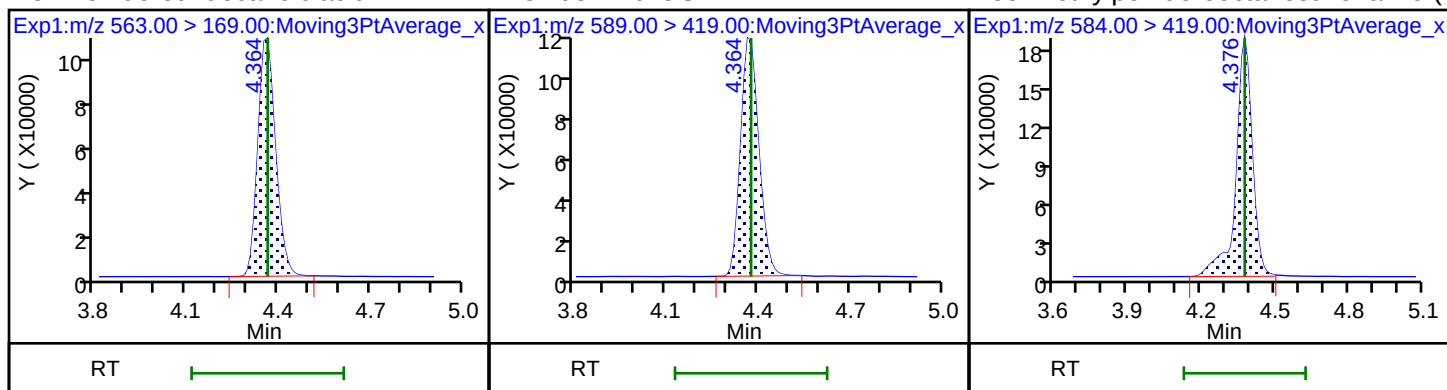
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

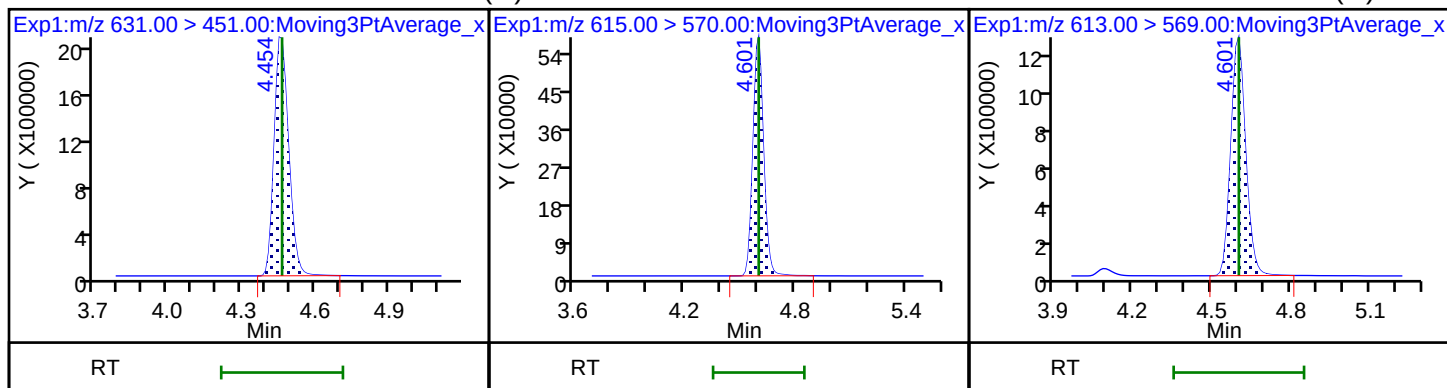
33 N-ethylperfluorooctanesulfonamid (M)



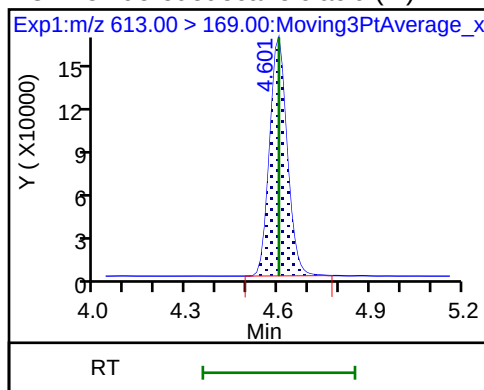
66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

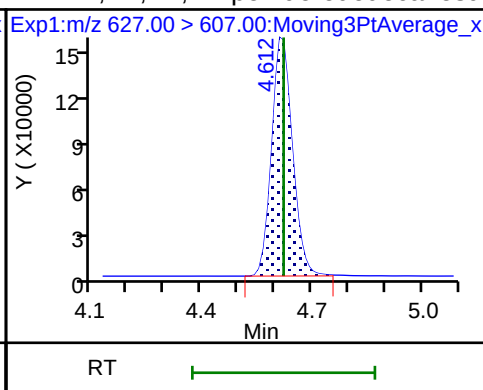
37 Perfluorododecanoic acid (M)



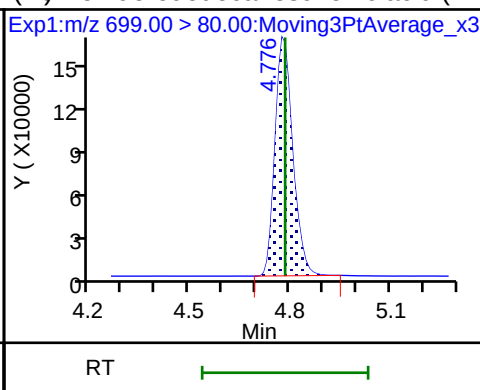
37 Perfluorododecanoic acid (M)



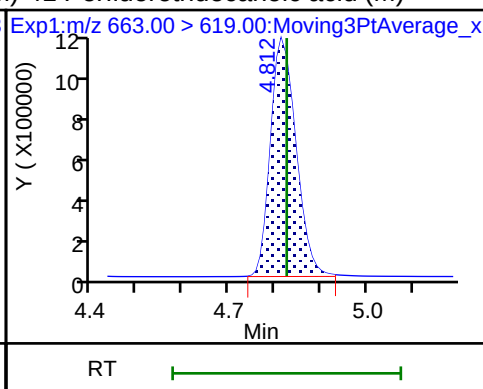
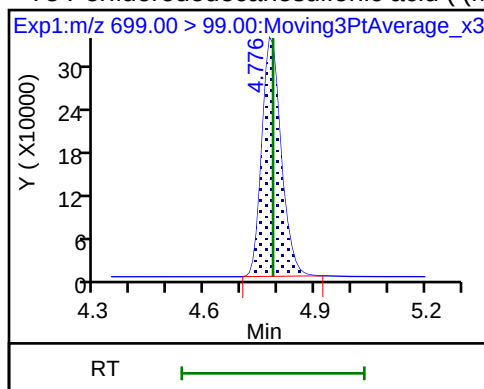
74 1H,1H,2H,2H-perfluorododecanesul (M)



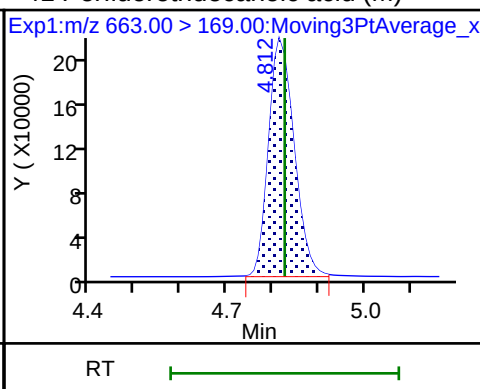
75 Perfluorododecanesulfonic acid (M)



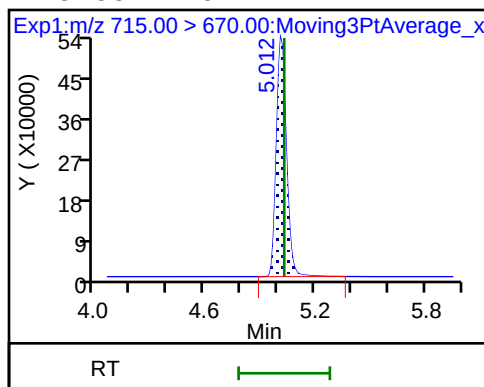
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)



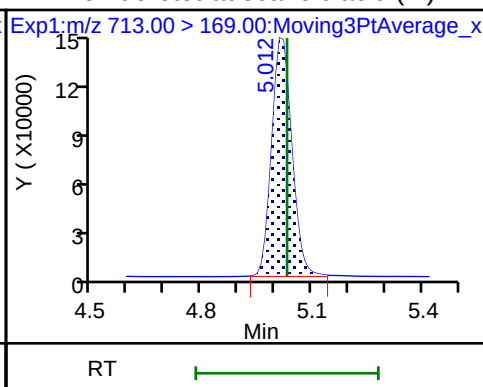
41 Perfluorotridecanoic acid (M)



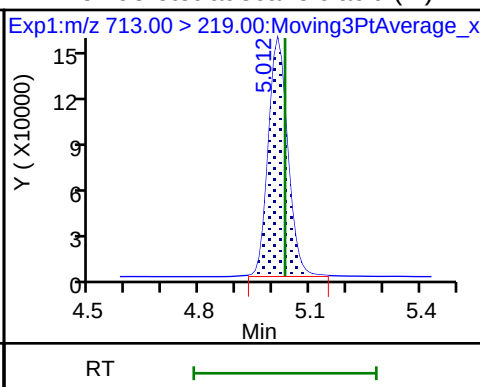
D 43 13C2 PFTeDA



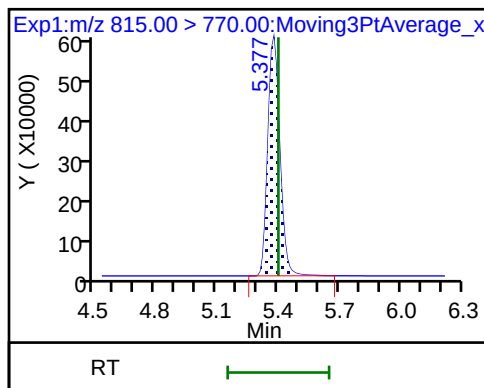
42 Perfluorotetradecanoic acid (M)



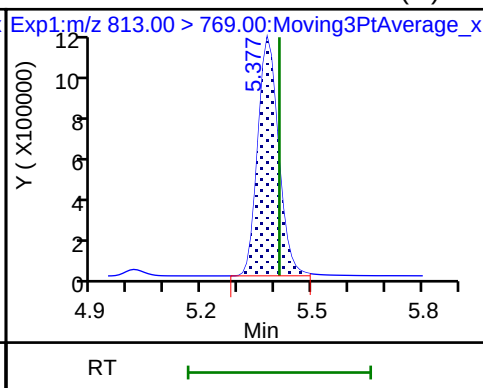
42 Perfluorotetradecanoic acid (M)



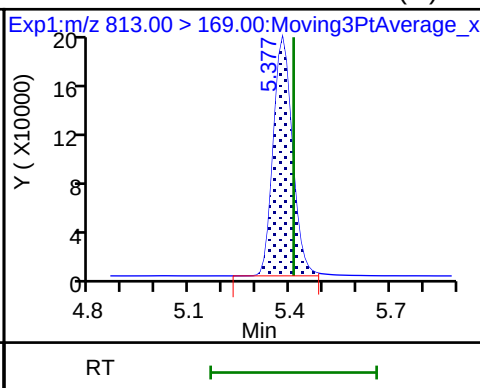
D 44 13C2 PFHxDA



45 Perfluorohexadecanoic acid (M)

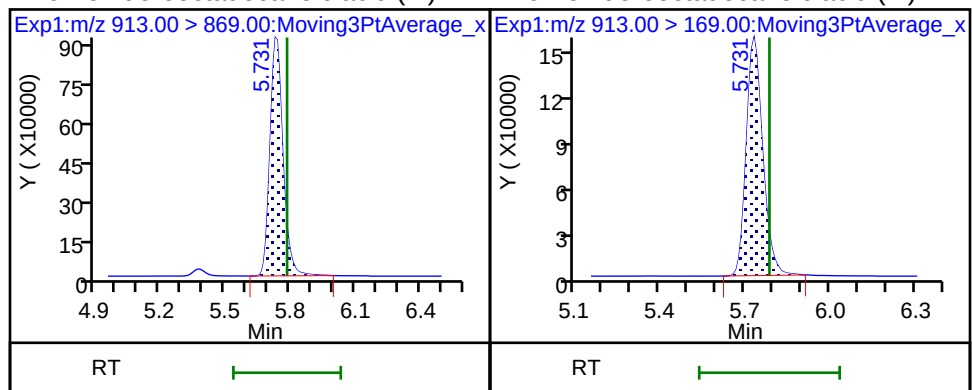


45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

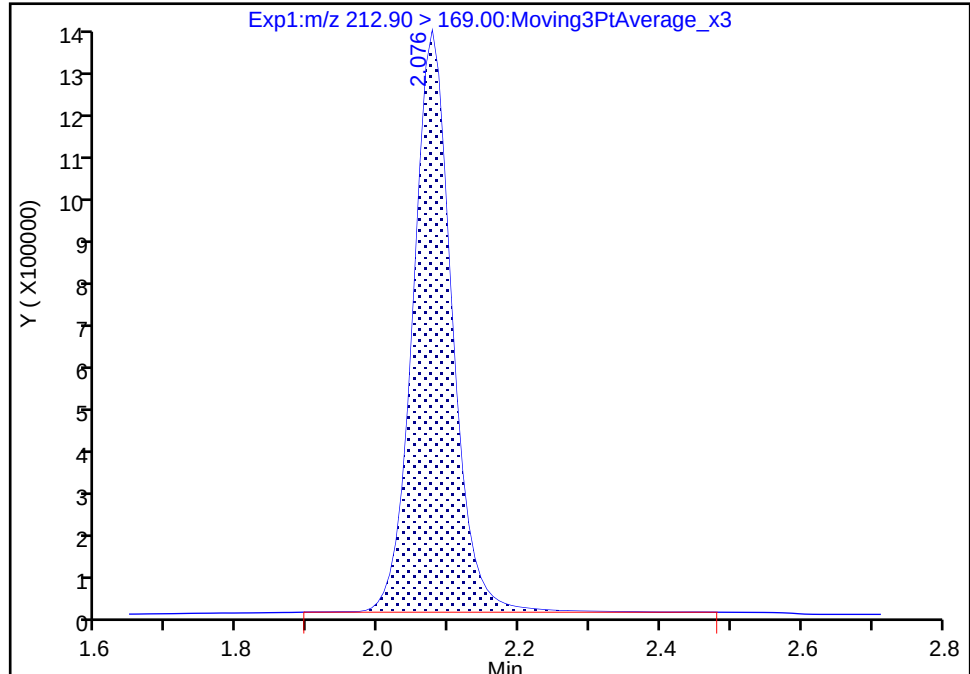
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

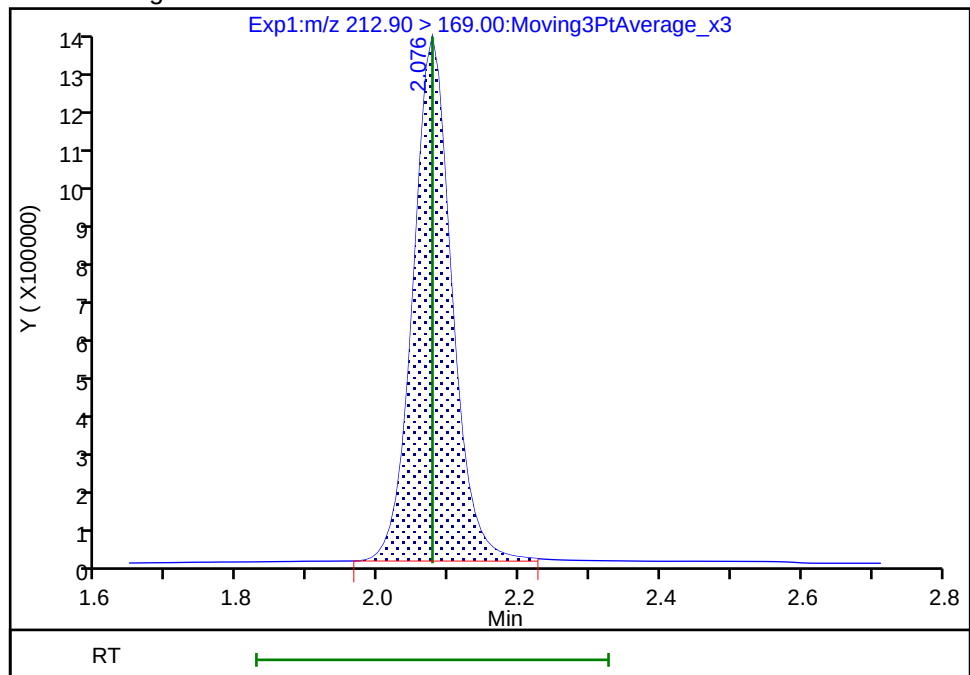
RT: 2.08
Area: 5196733
Amount: 2.388411
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 5165207
Amount: 2.373922
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:08:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

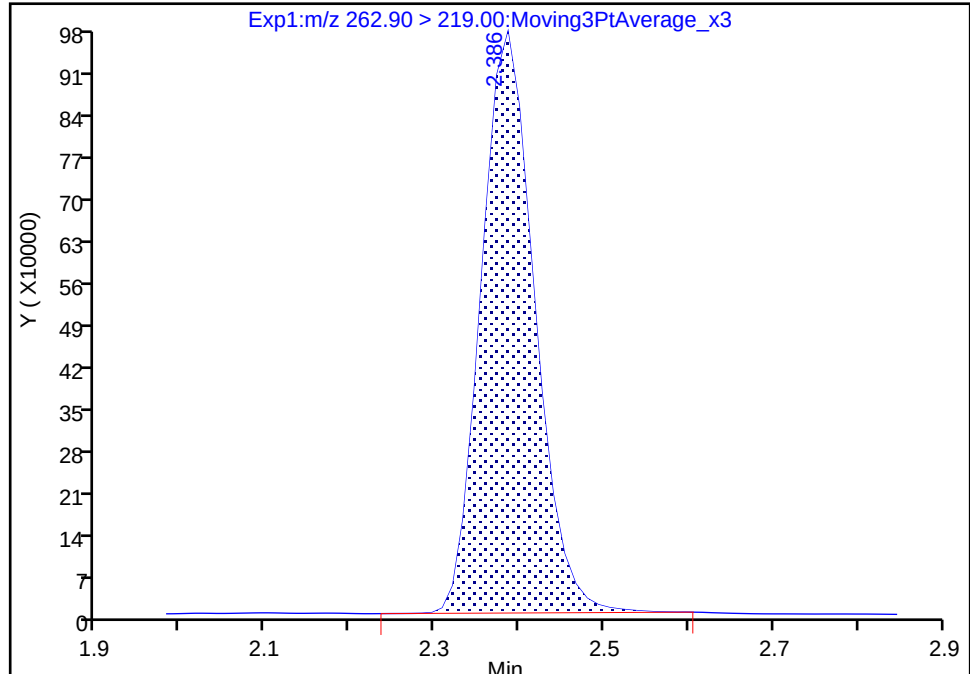
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

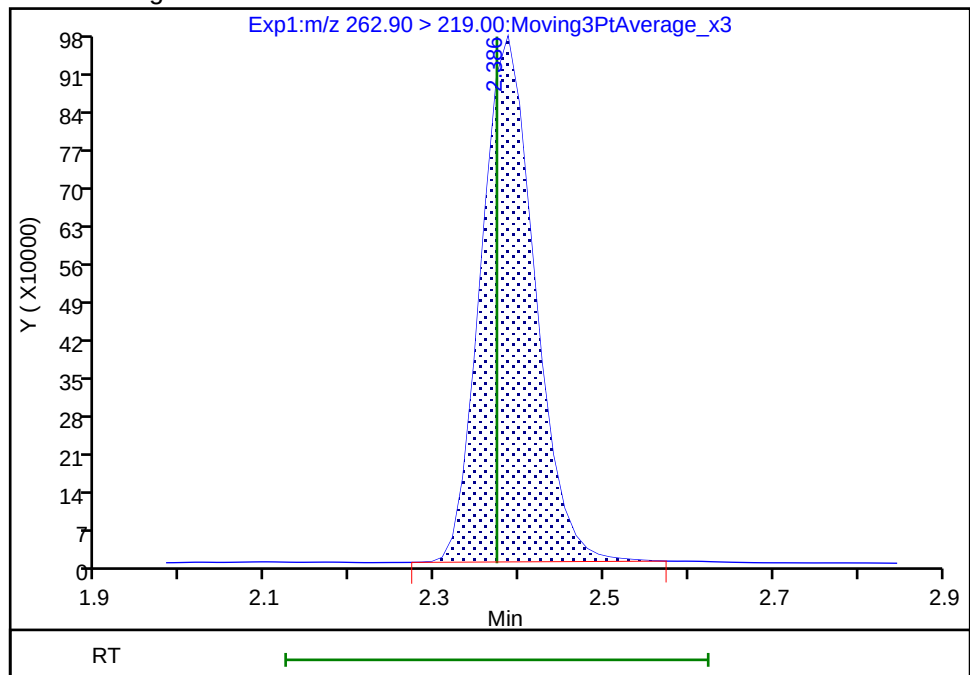
RT: 2.39
Area: 4227185
Amount: 2.446157
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 4222322
Amount: 2.443343
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:08:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

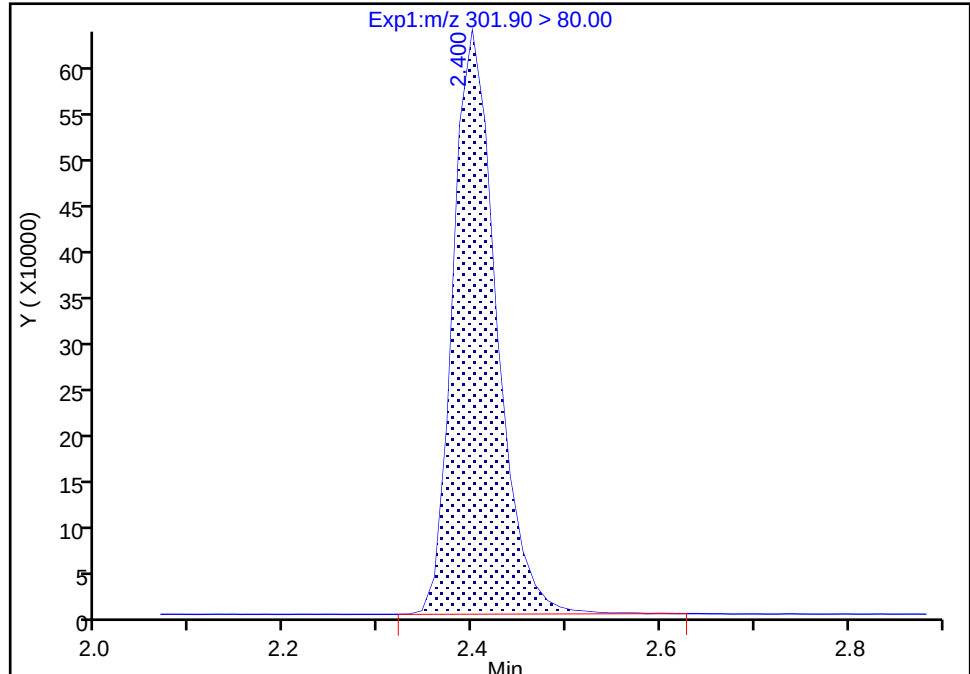
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

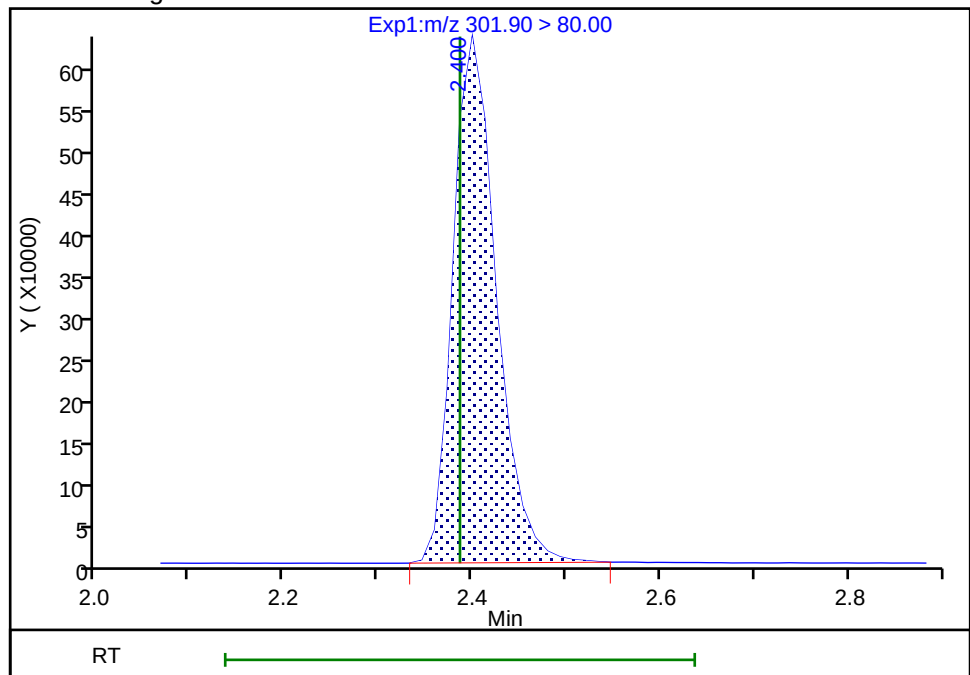
RT: 2.40
Area: 2038359
Amount: 1.087556
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2031631
Amount: 1.083967
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:08:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

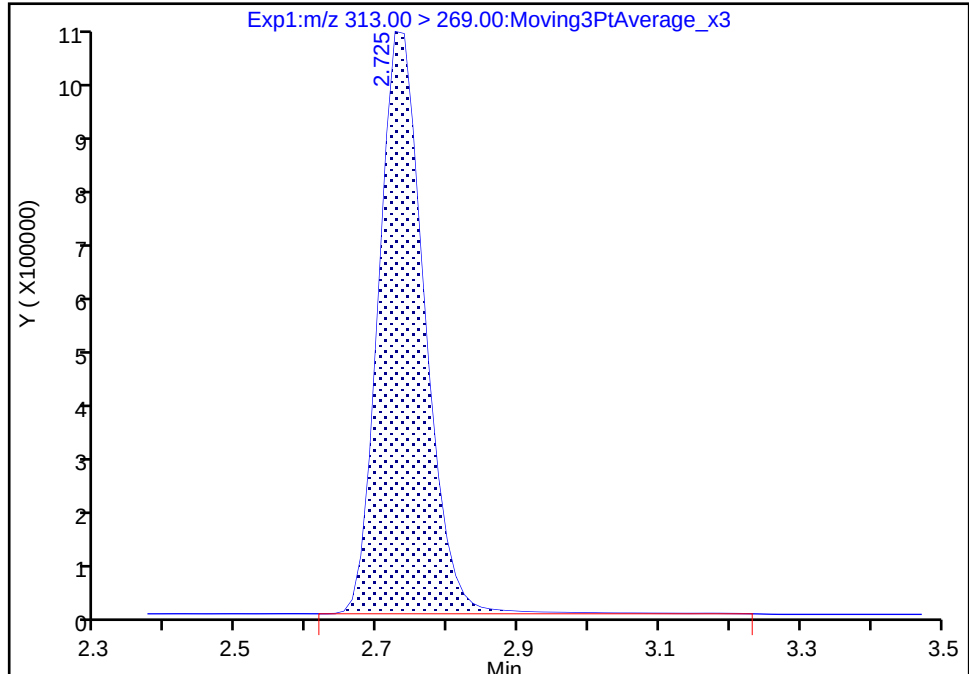
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

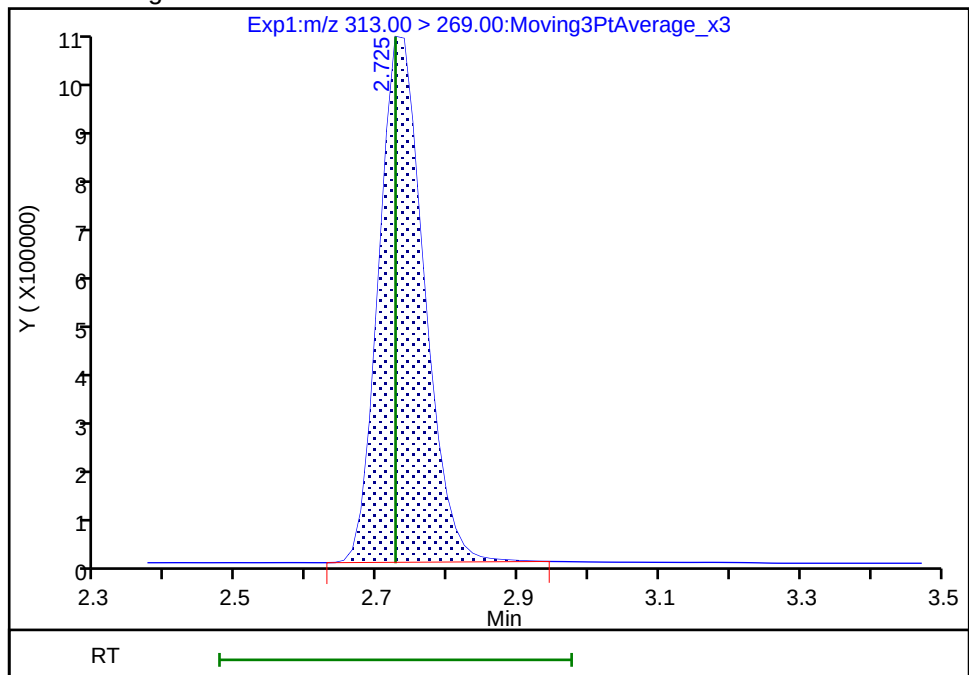
RT: 2.73
Area: 4498129
Amount: 2.342921
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 4458663
Amount: 2.322364
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

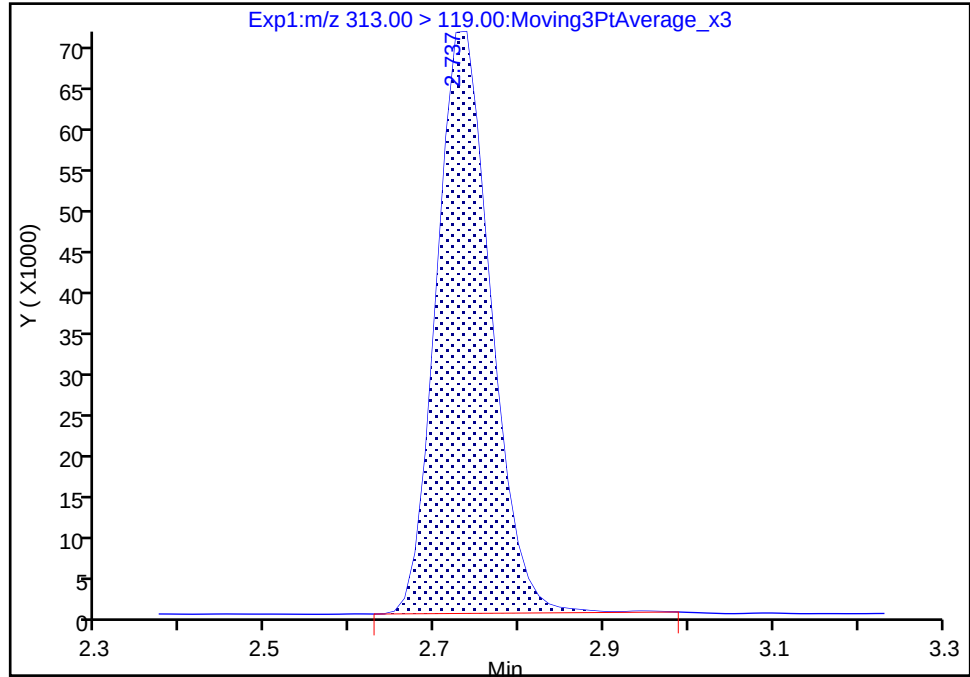
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

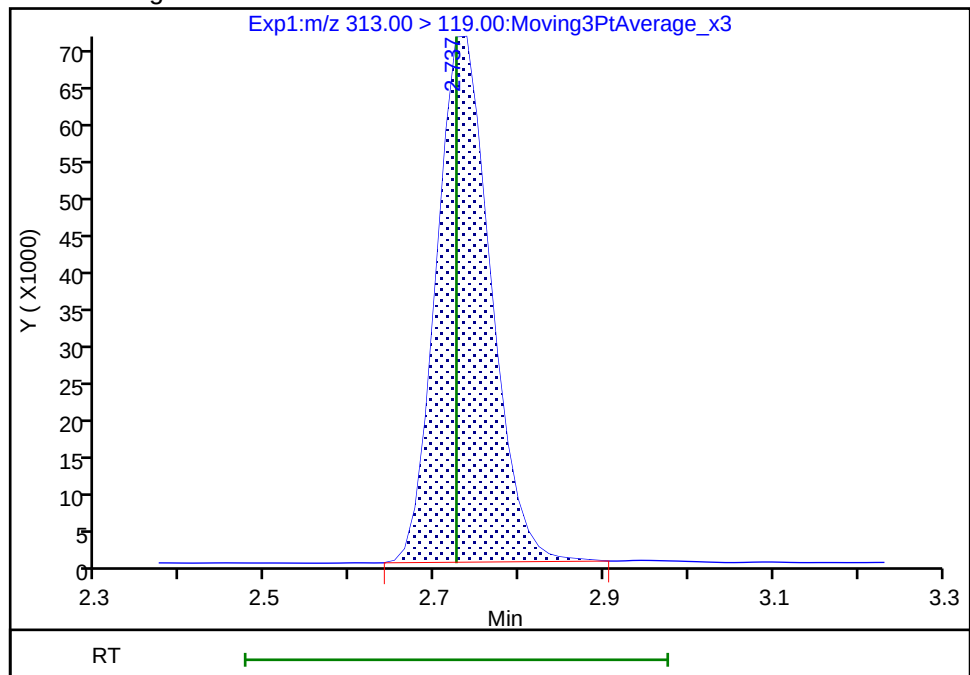
RT: 2.74
Area: 316161
Amount: 2.342921
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 315192
Amount: 2.322364
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

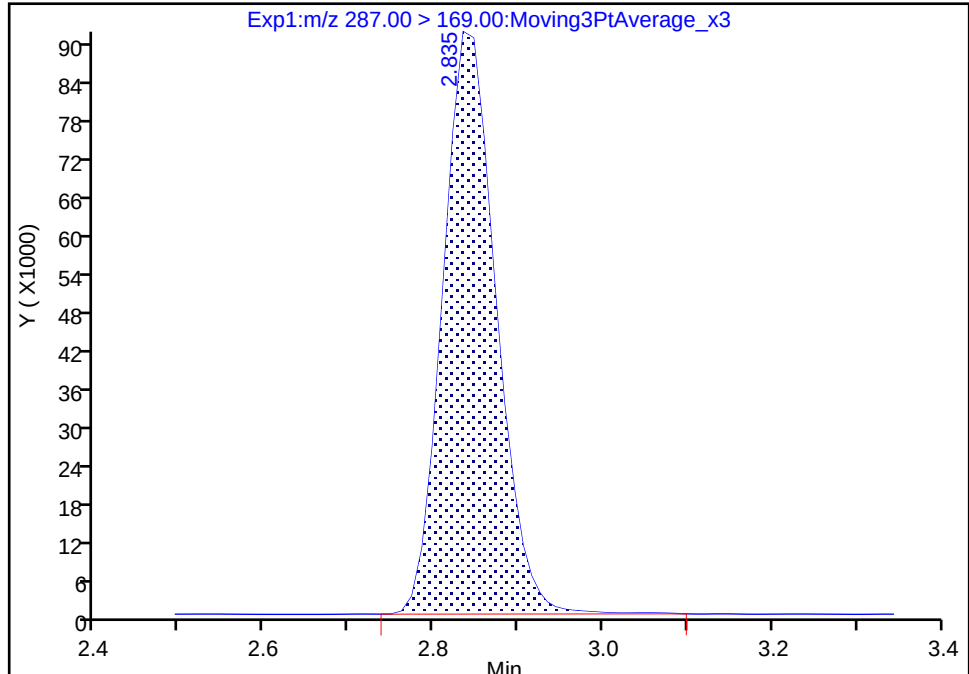
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

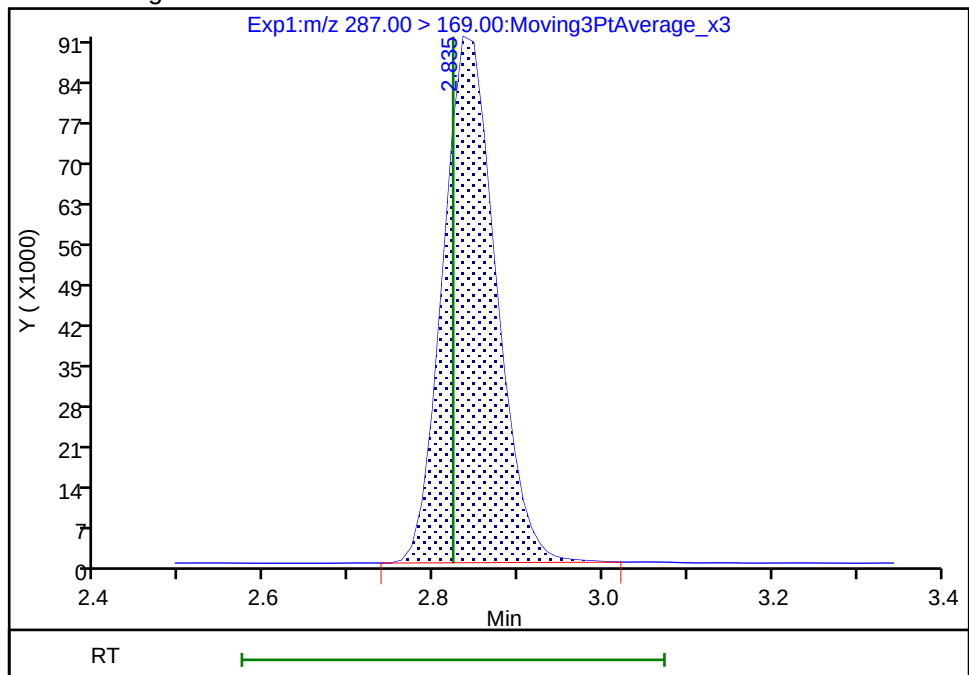
RT: 2.83
Area: 400450
Amount: 1.134086
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 398916
Amount: 1.129742
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:08:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

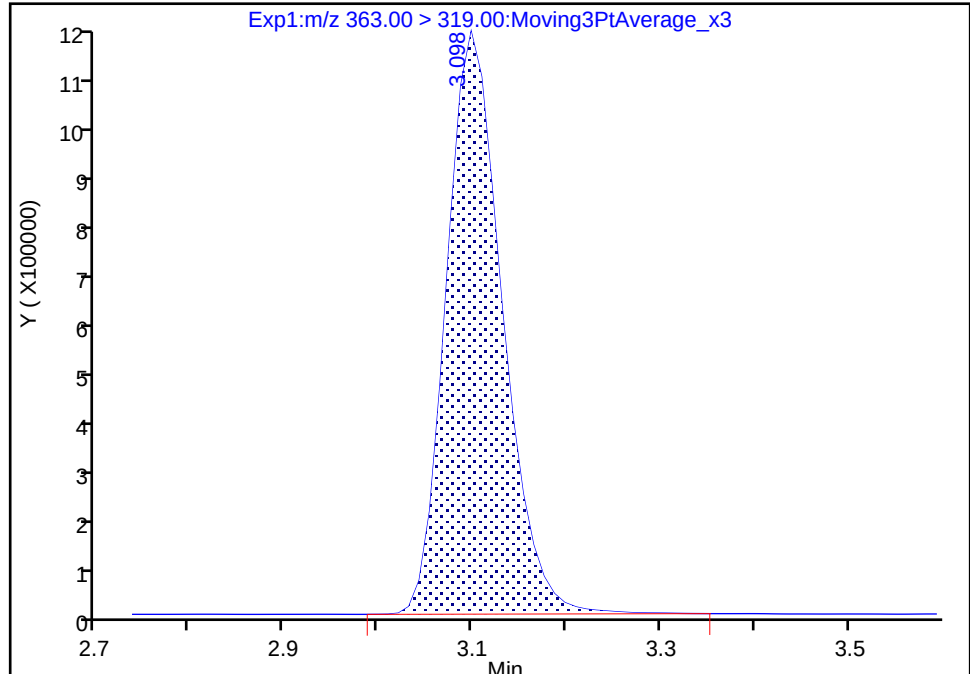
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

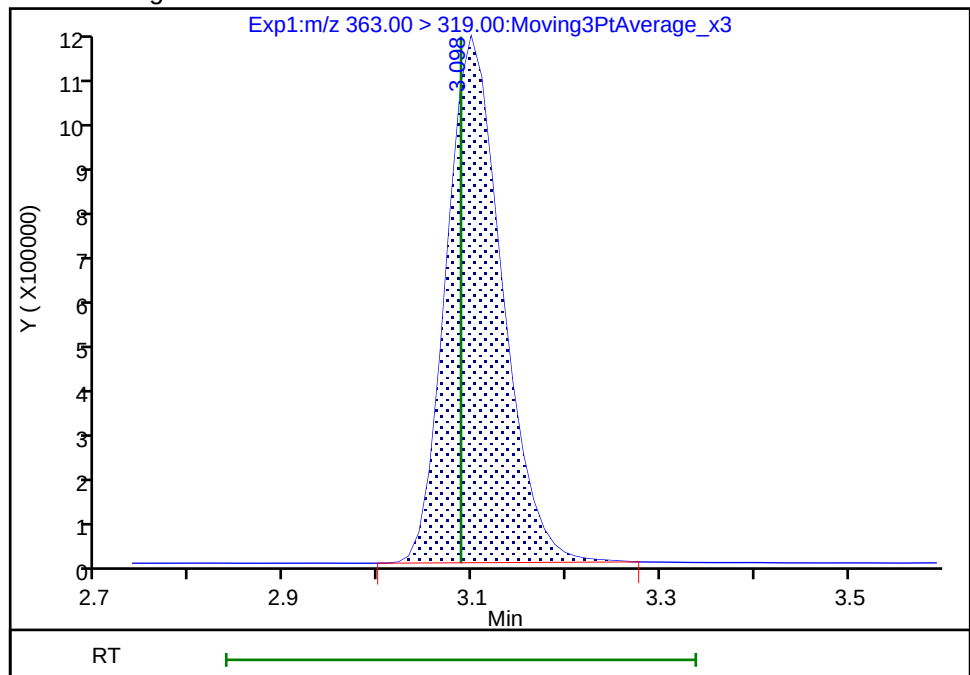
RT: 3.10
Area: 4645195
Amount: 2.326296
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 4626380
Amount: 2.316873
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

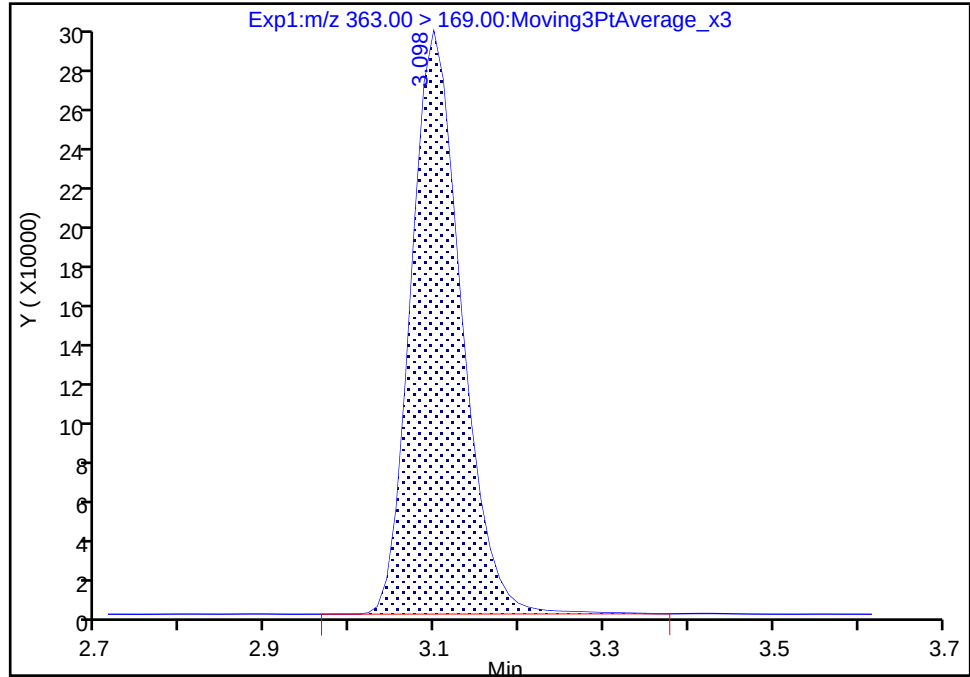
EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

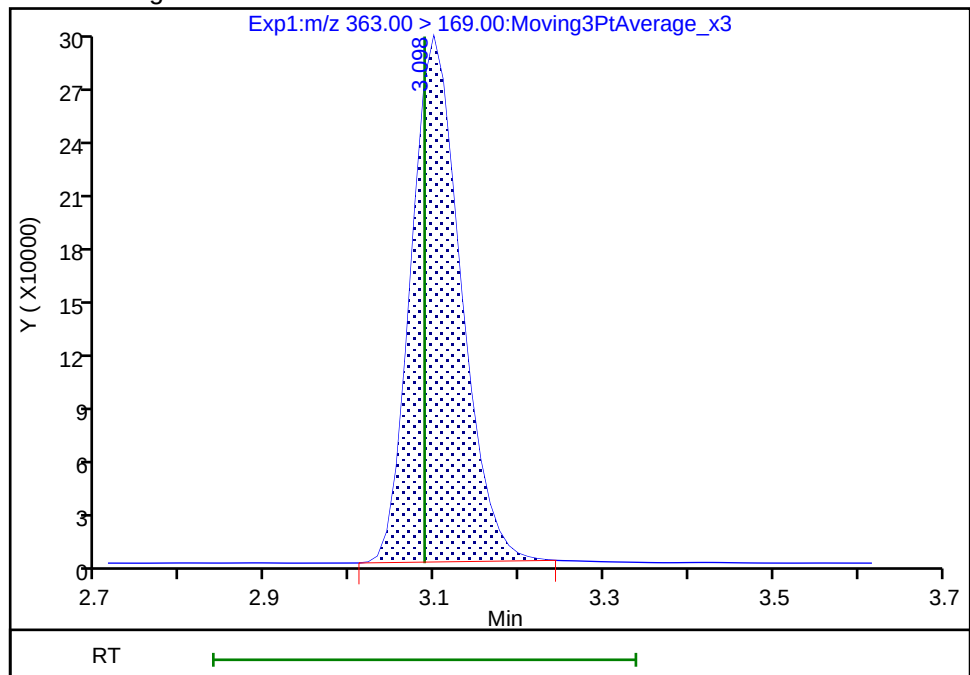
RT: 3.10
Area: 1212747
Amount: 2.326296
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1198249
Amount: 2.316873
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

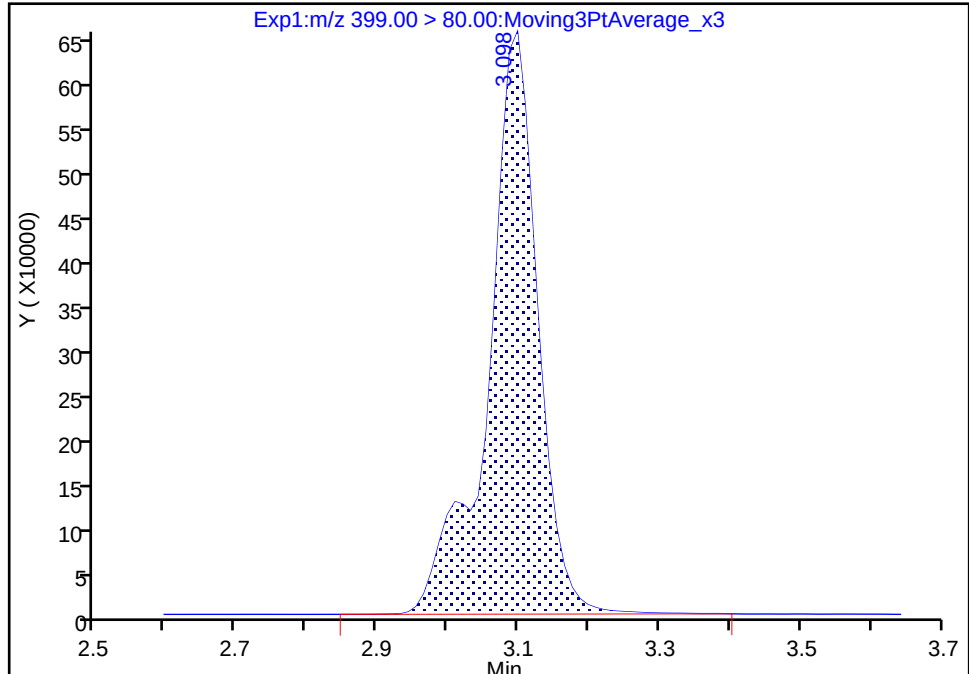
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

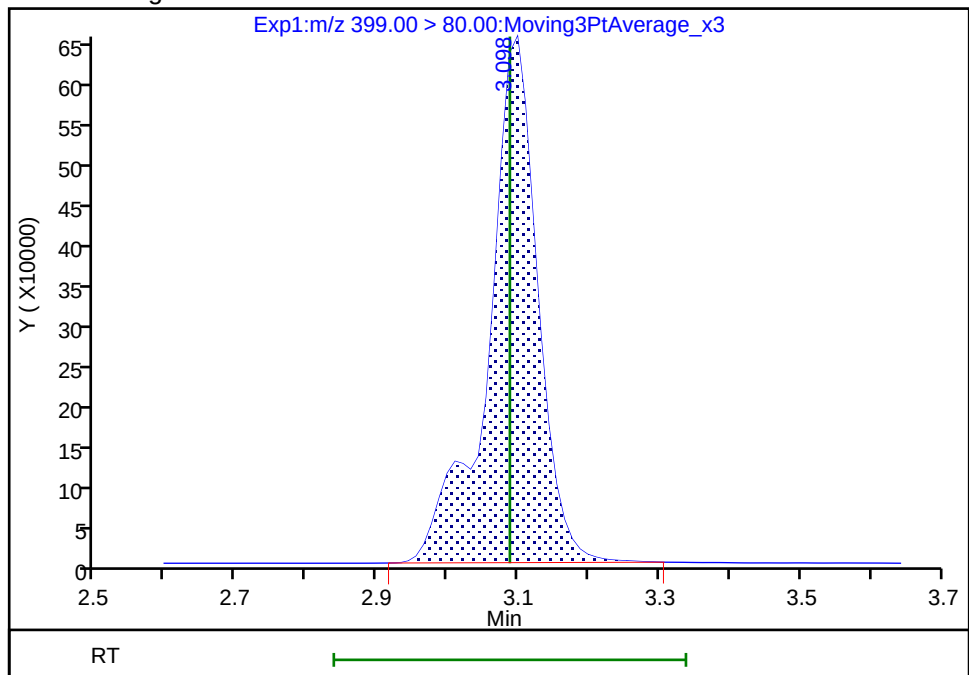
RT: 3.10
Area: 3207359
Amount: 2.151266
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 3193246
Amount: 2.141800
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

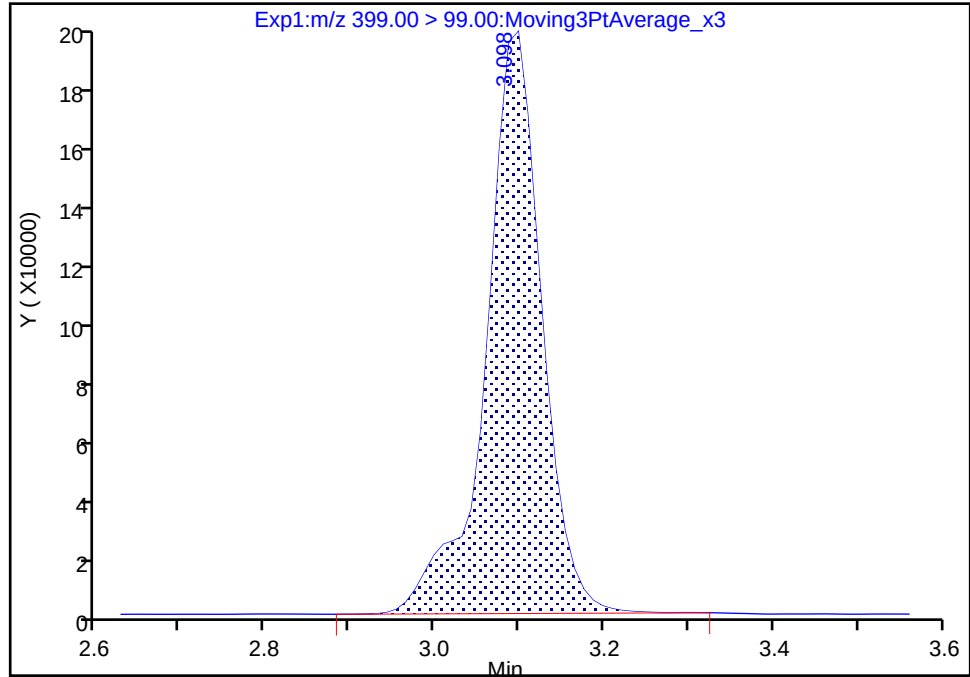
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

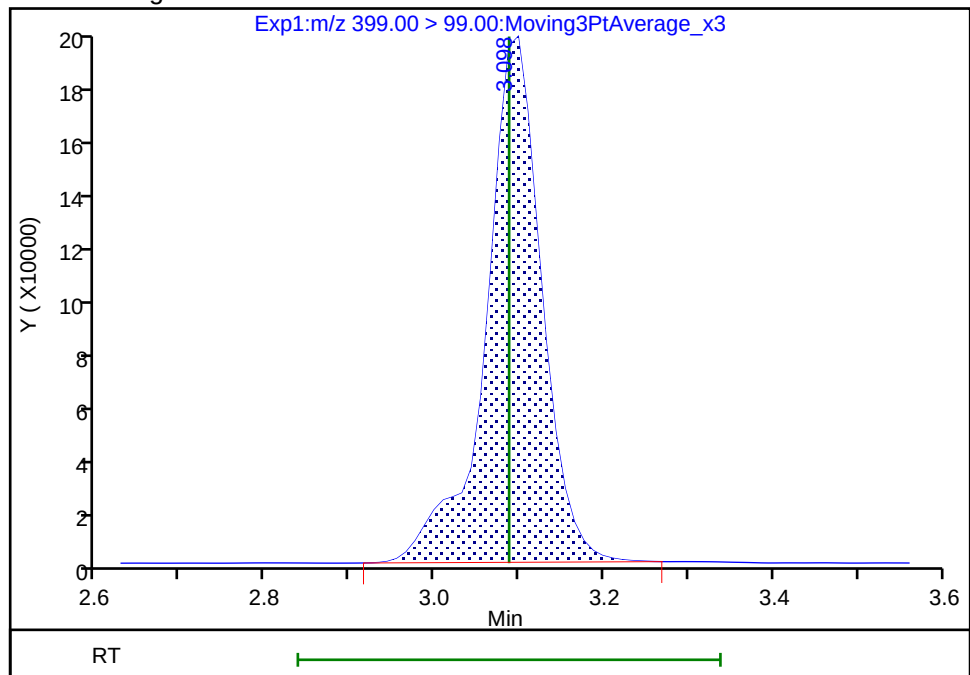
RT: 3.10
Area: 892362
Amount: 2.151266
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 890612
Amount: 2.141800
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

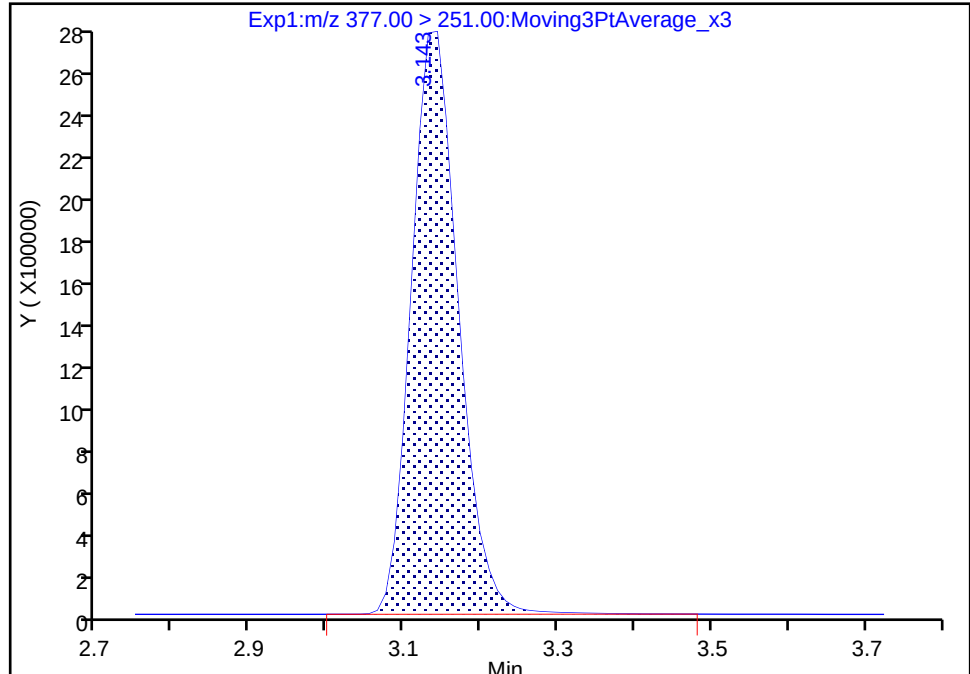
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

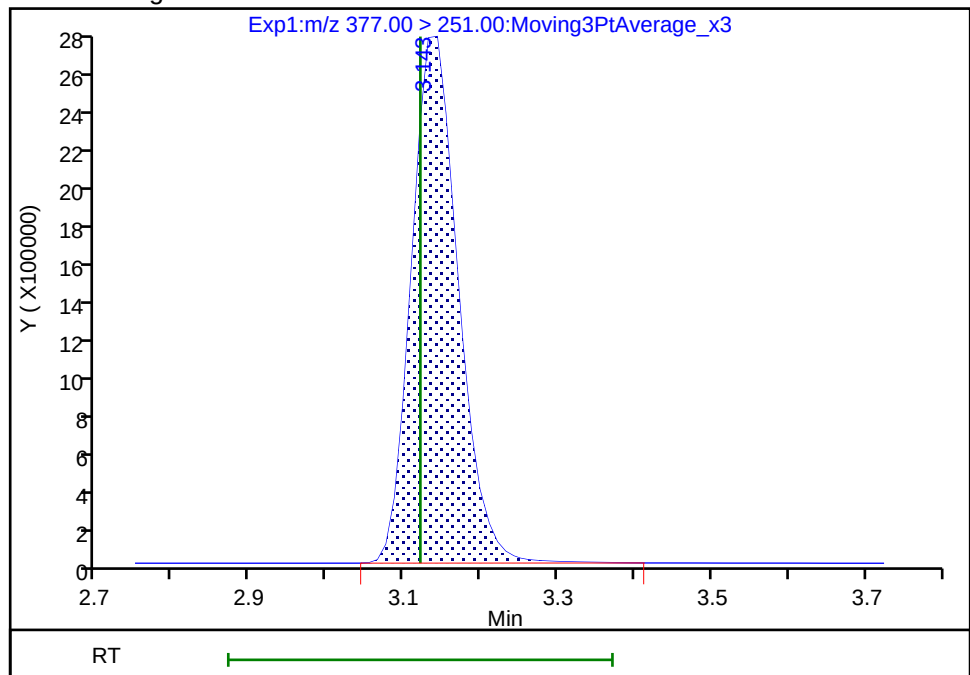
RT: 3.14
Area: 11488665
Amount: 2.402511
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 11482351
Amount: 2.401191
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

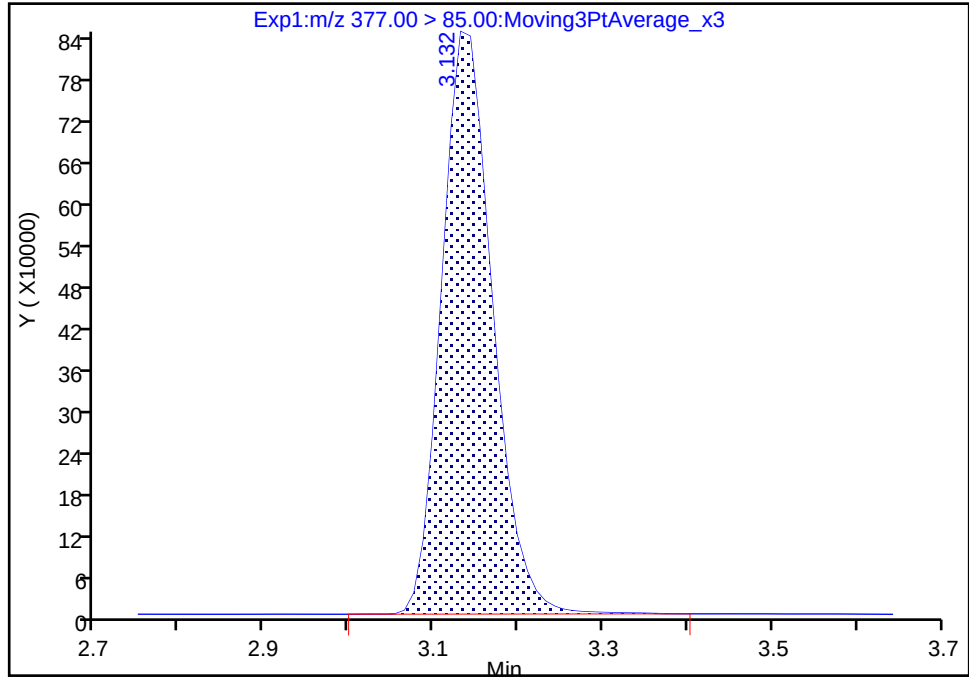
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

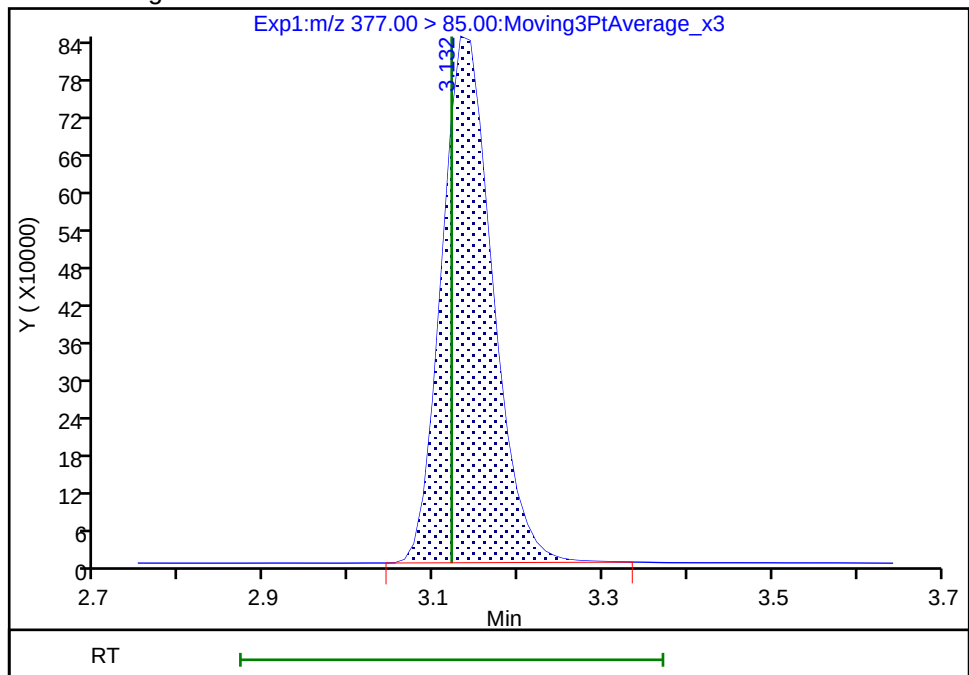
RT: 3.13
Area: 3559511
Amount: 2.402511
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 3546626
Amount: 2.401191
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 678 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

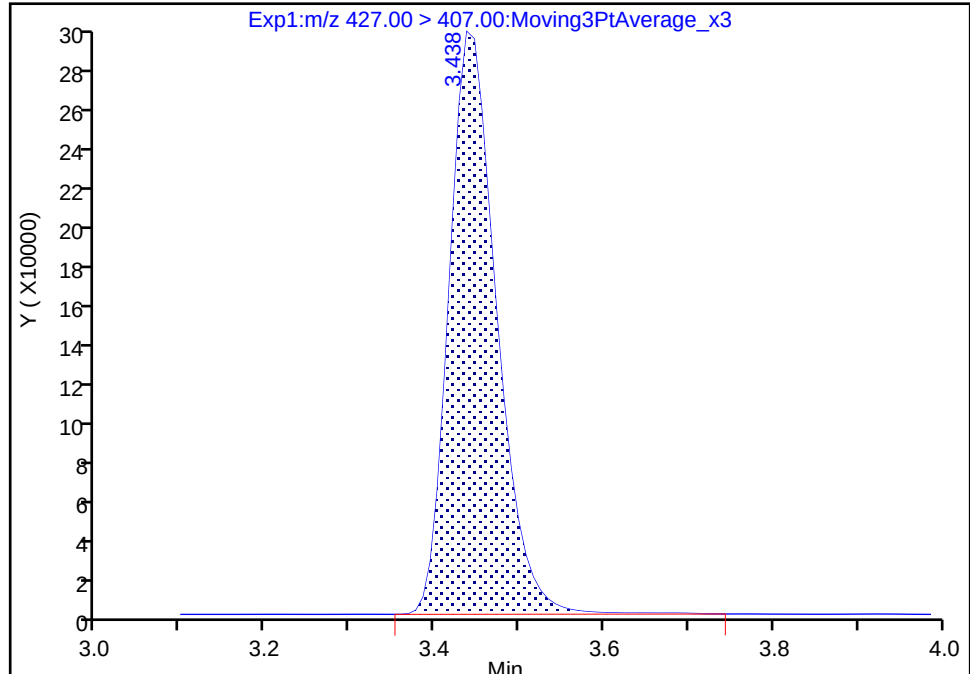
Detector: EXP1

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

Signal: 1

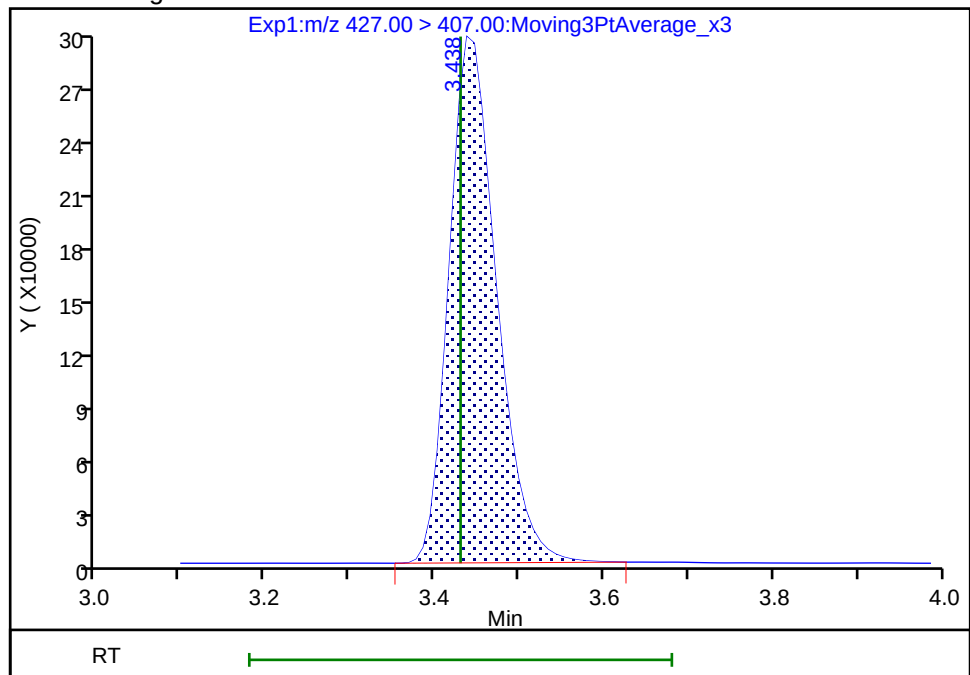
RT: 3.44
Area: 1133822
Amount: 2.804070
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1127500
Amount: 2.788435
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

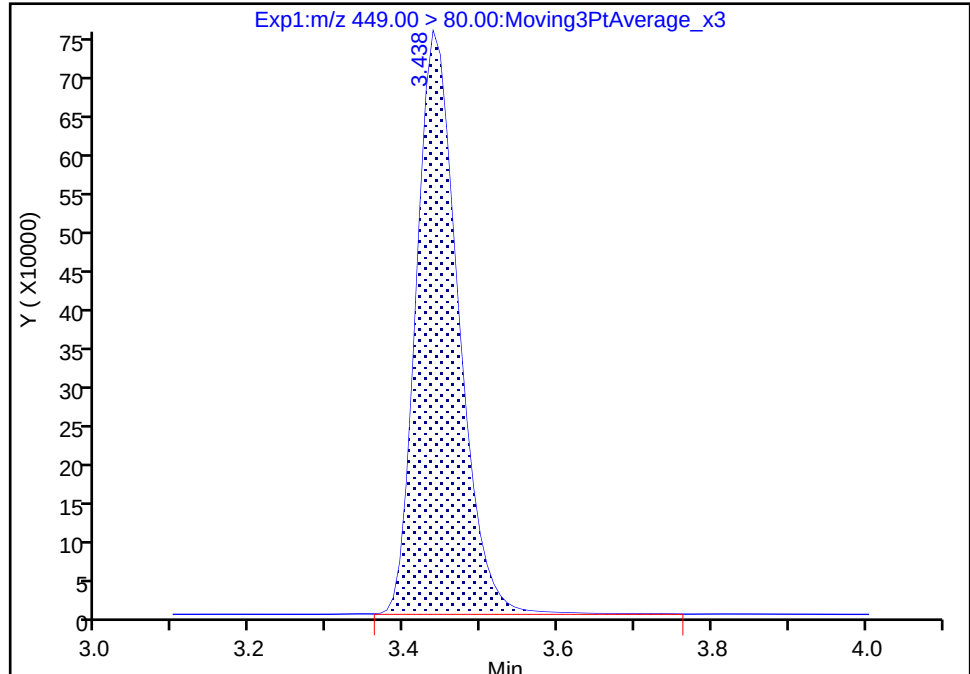
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

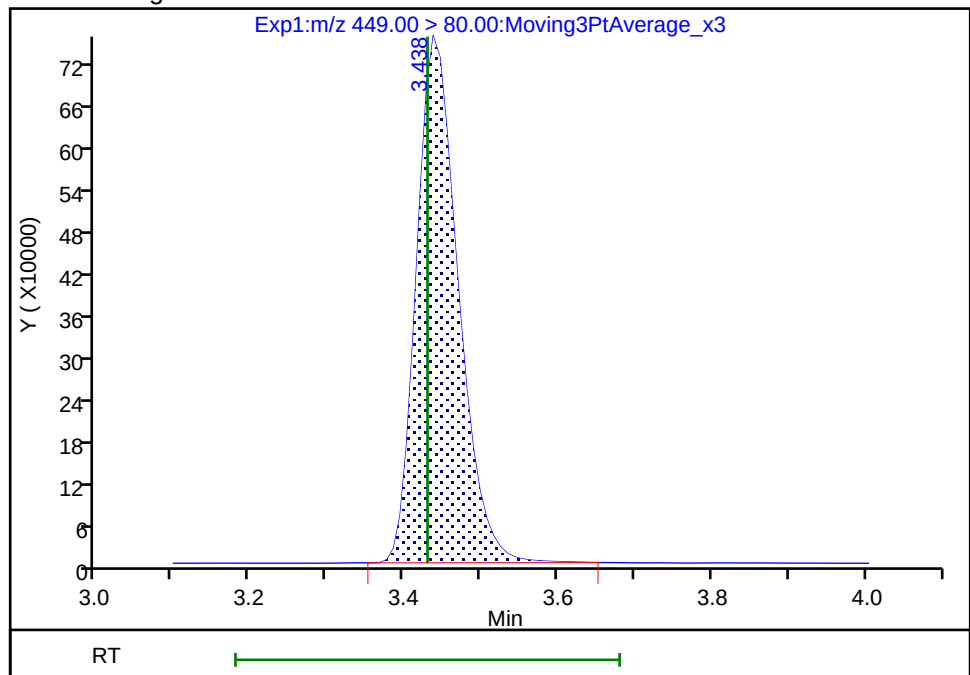
RT: 3.44
Area: 2864549
Amount: 2.363242
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 2846994
Amount: 2.348759
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

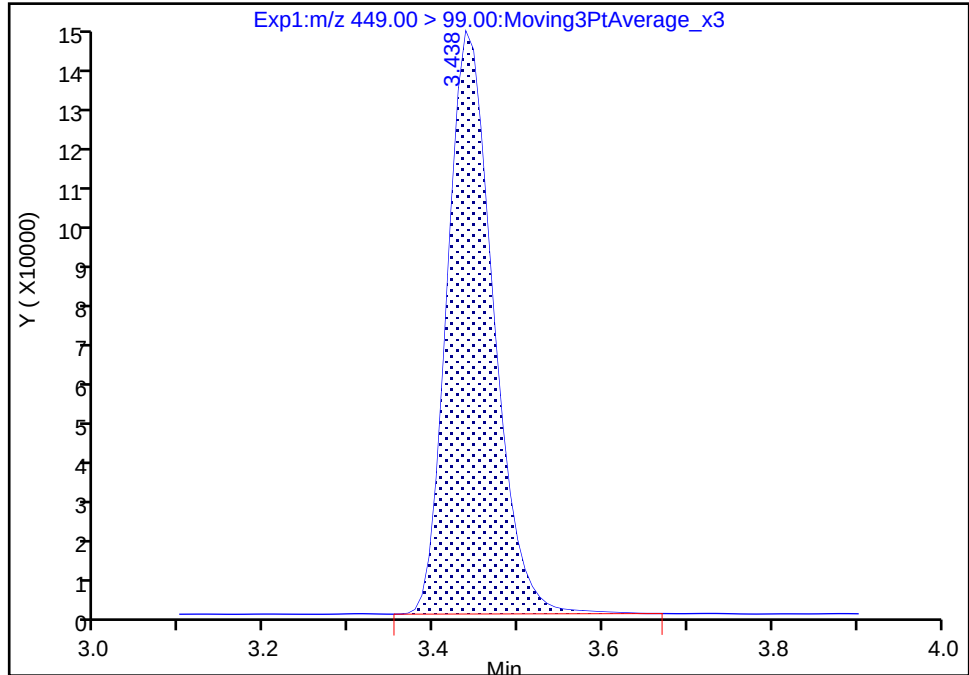
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

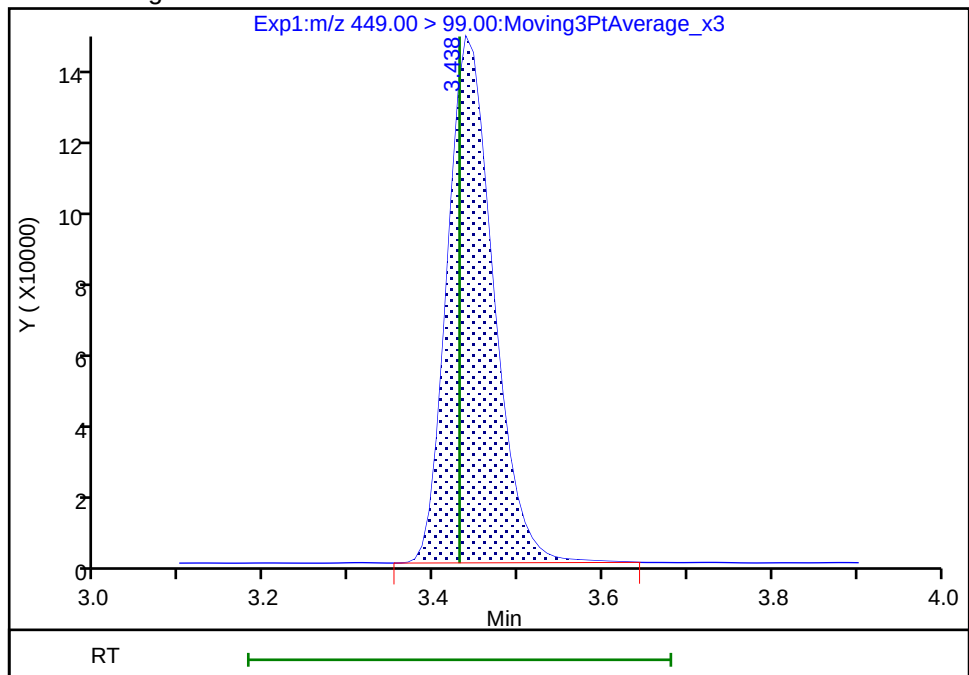
RT: 3.44
Area: 536895
Amount: 2.363242
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 536506
Amount: 2.348759
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:09:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 681 of 97811/21/2022
4:10 PM

Eurofins Burlington

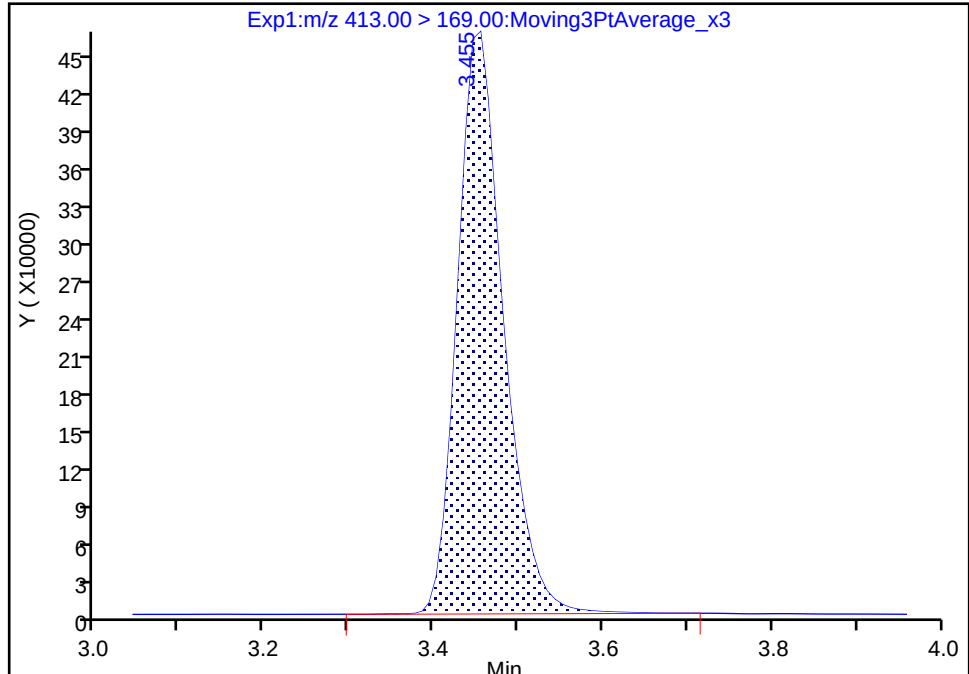
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

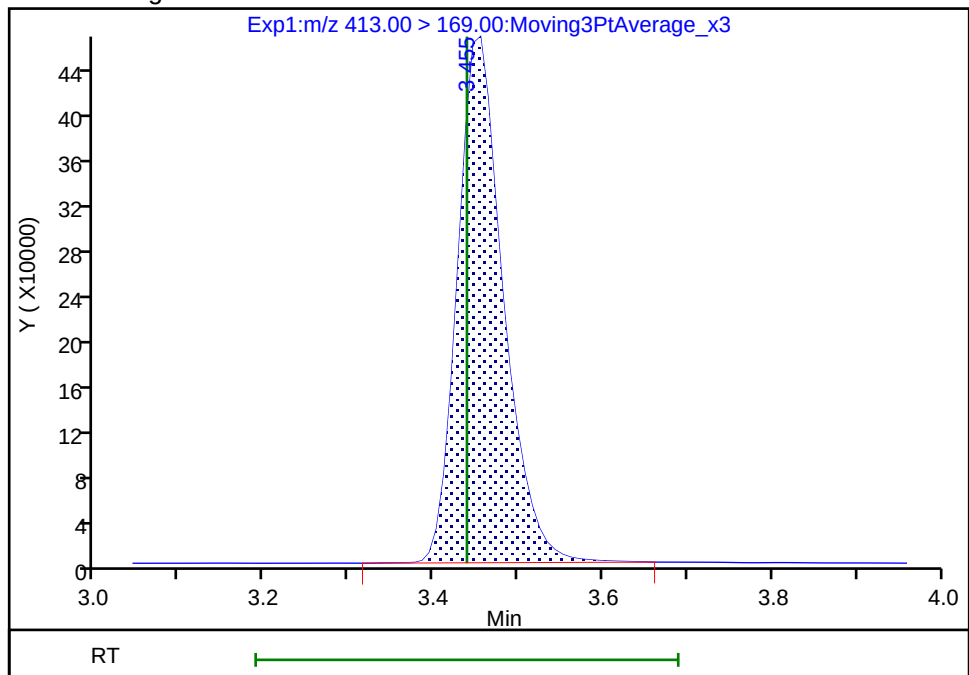
RT: 3.46
Area: 1756875
Amount: 2.211389
Amount Units: ng/ml

Processing Integration Results



RT: 3.46
Area: 1753938
Amount: 2.211389
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:10:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

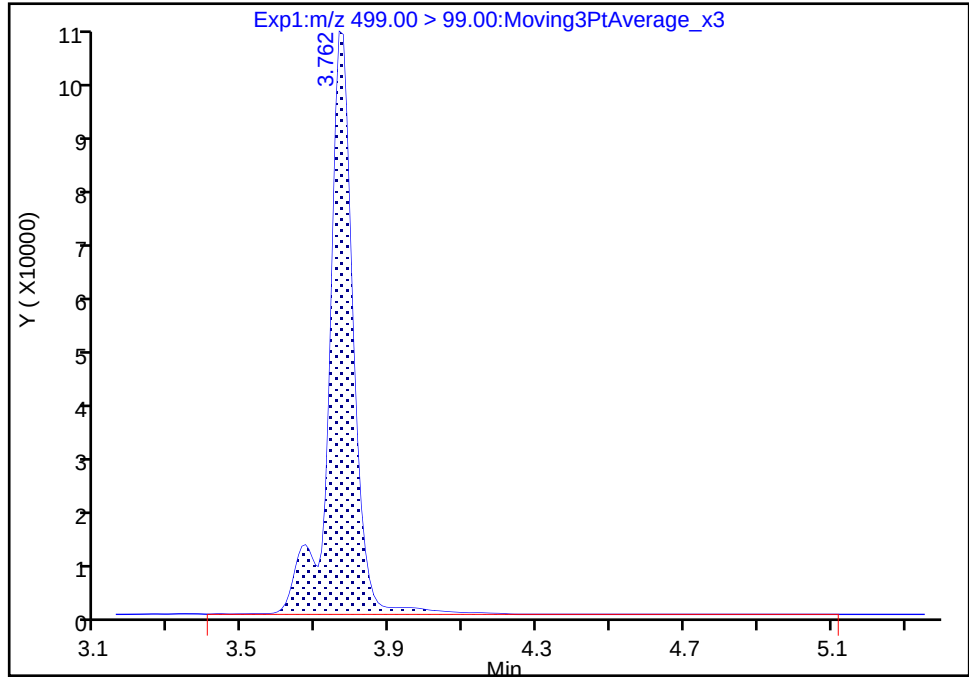
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

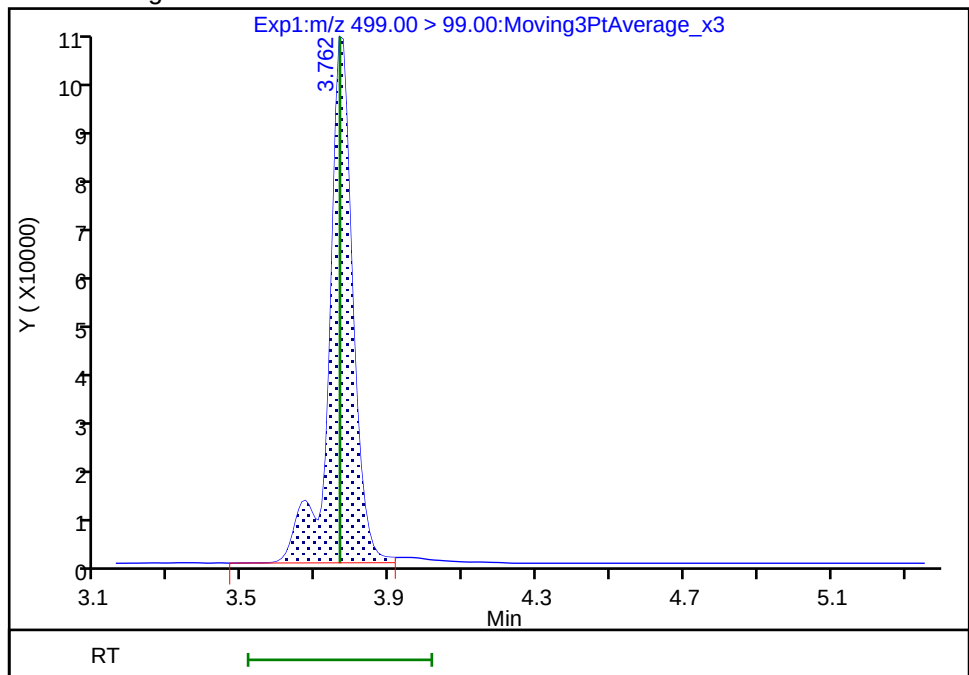
RT: 3.76
Area: 472529
Amount: 2.266362
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 460753
Amount: 2.216570
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:54:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 683 of 978

11/21/2022
4:10 PM

Eurofins Burlington

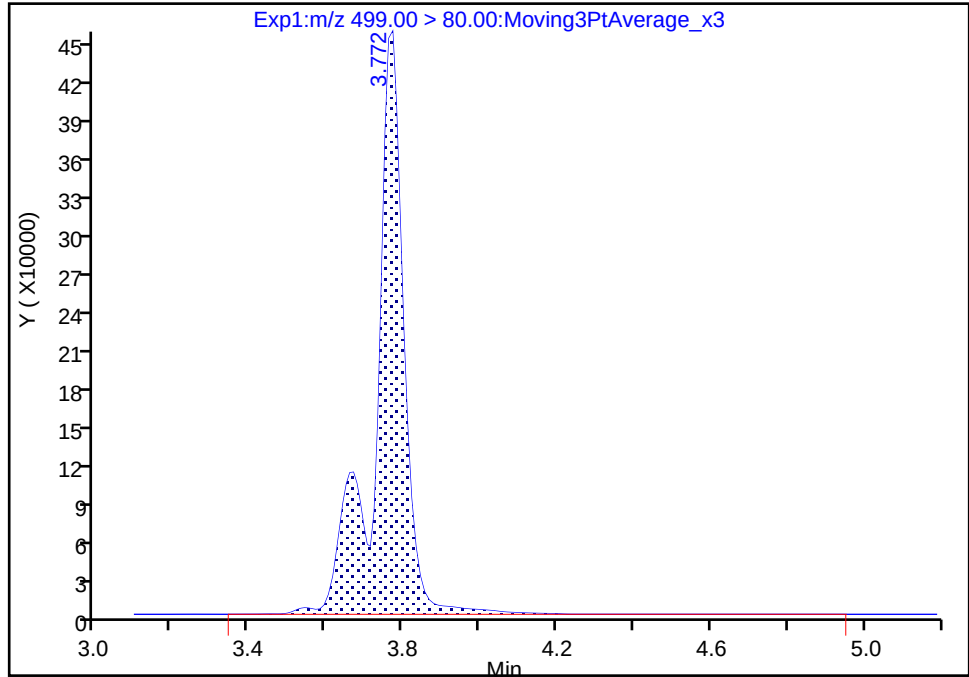
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

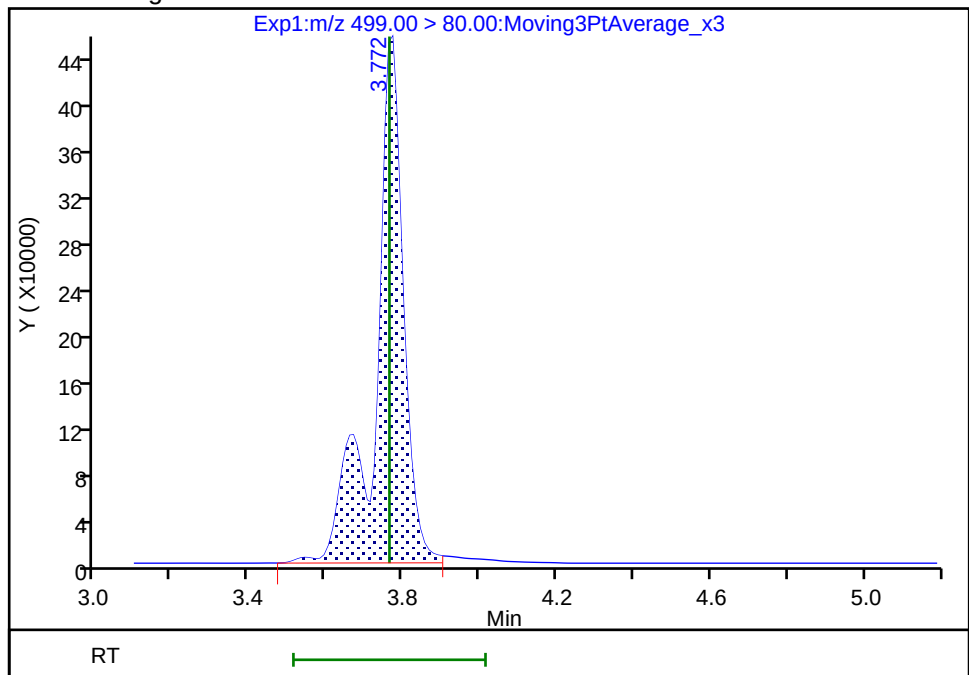
RT: 3.77
Area: 2368853
Amount: 2.266362
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 2316809
Amount: 2.216570
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:54:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 684 of 97811/21/2022
4:10 PM

Eurofins Burlington

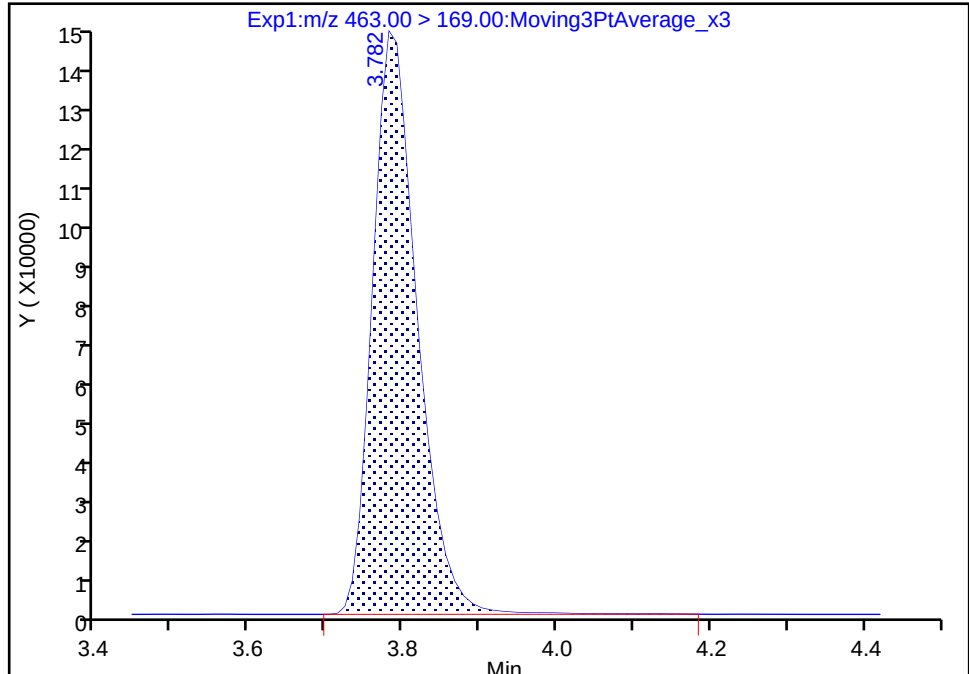
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

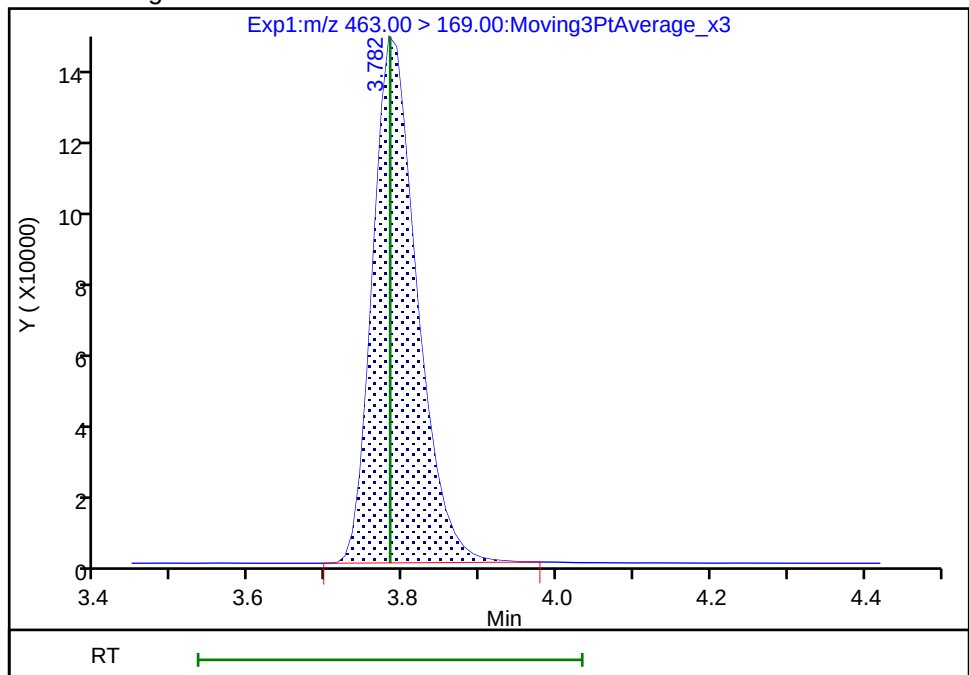
RT: 3.78
Area: 567722
Amount: 2.344504
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 563840
Amount: 2.344504
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:10:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

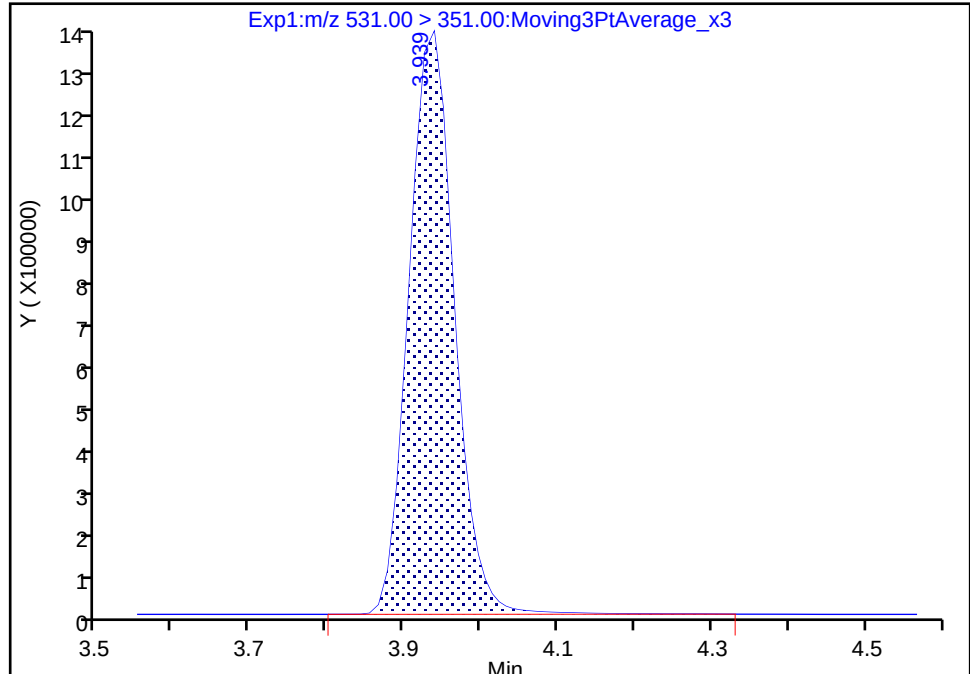
Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

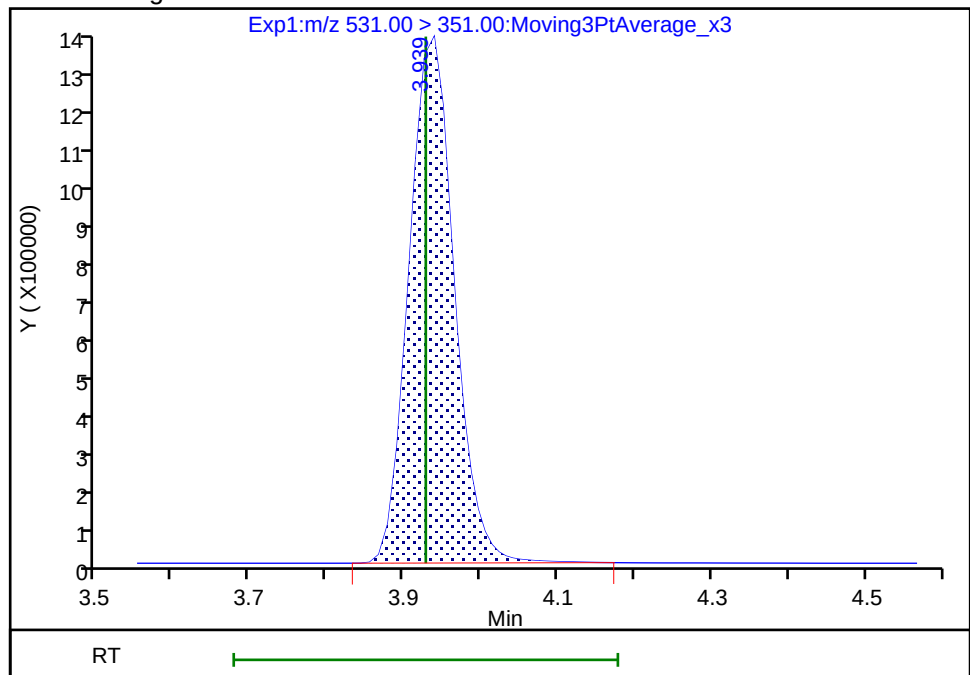
RT: 3.94
Area: 5394203
Amount: 2.572154
Amount Units: ng/ml

Processing Integration Results



RT: 3.94
Area: 5377656
Amount: 2.564264
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:10:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

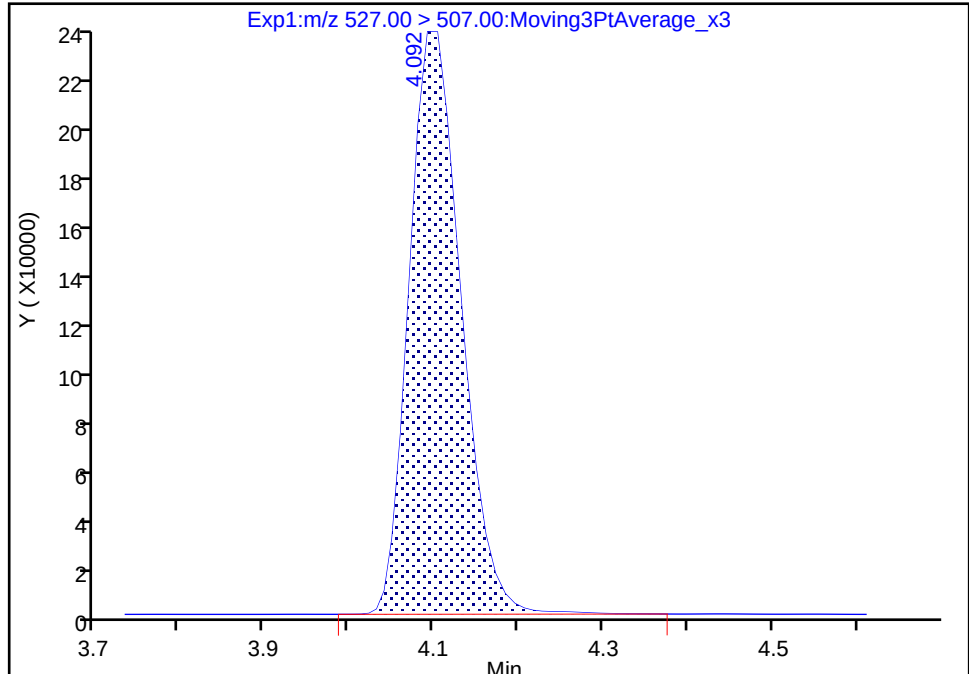
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

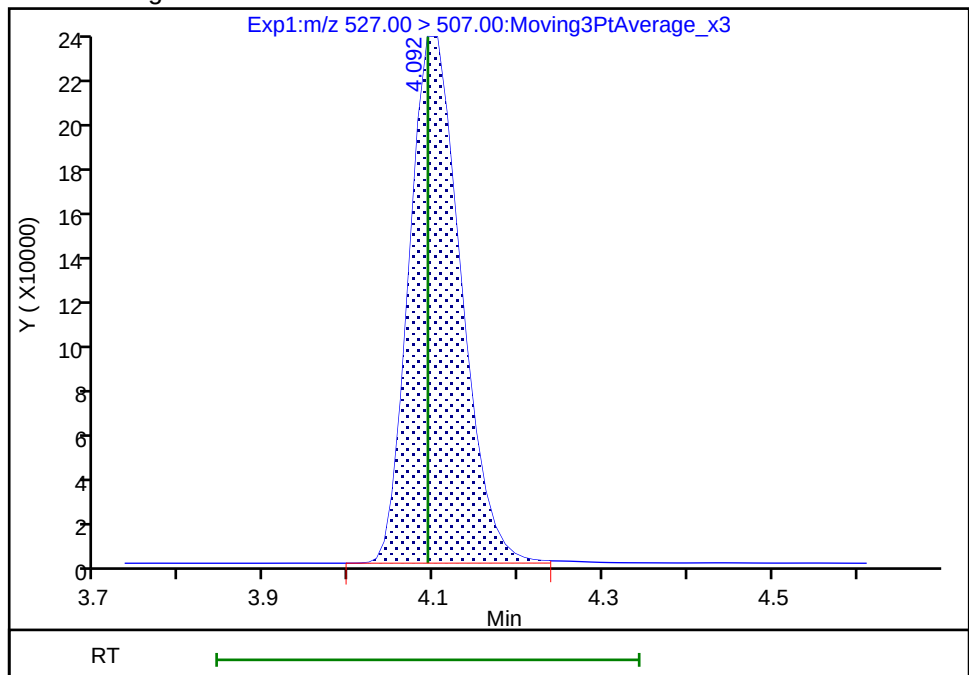
RT: 4.09
Area: 981426
Amount: 3.014536
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 978742
Amount: 3.006292
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

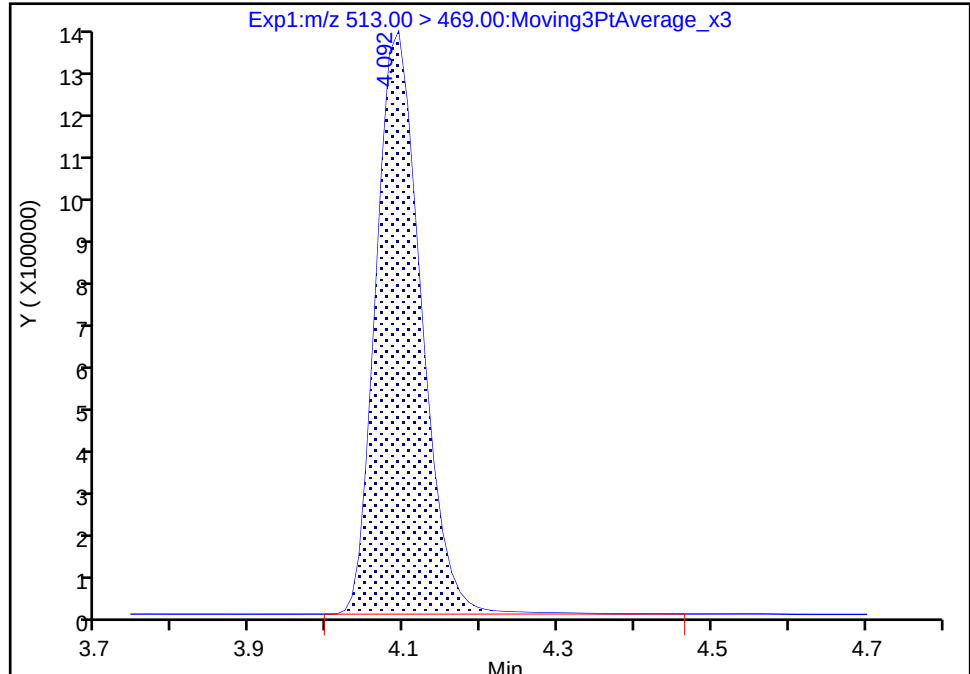
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

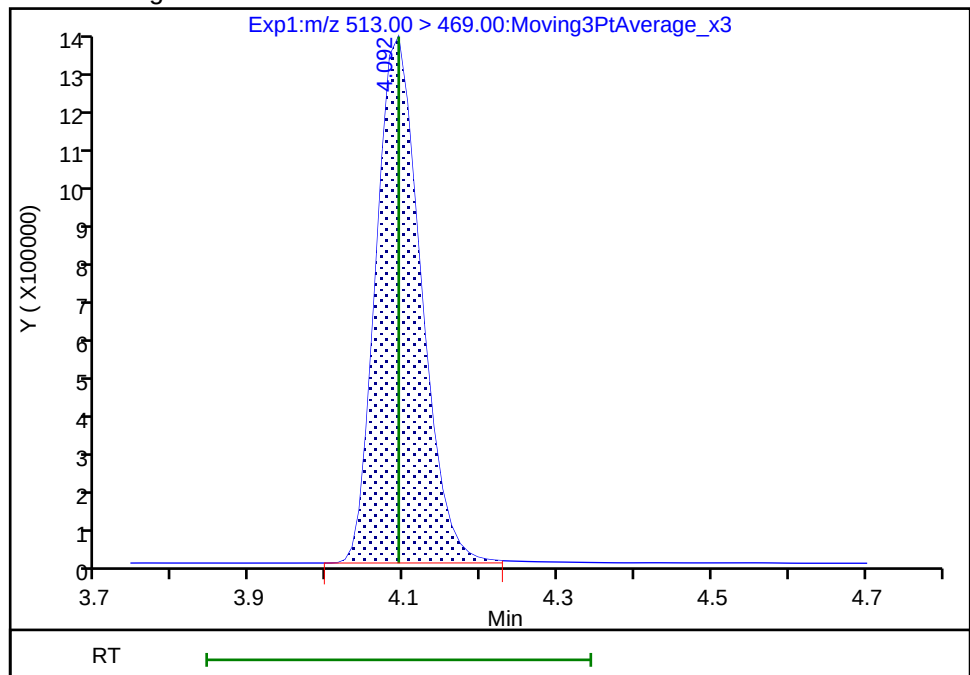
RT: 4.09
Area: 5286537
Amount: 2.499553
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 5263320
Amount: 2.488575
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:10:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

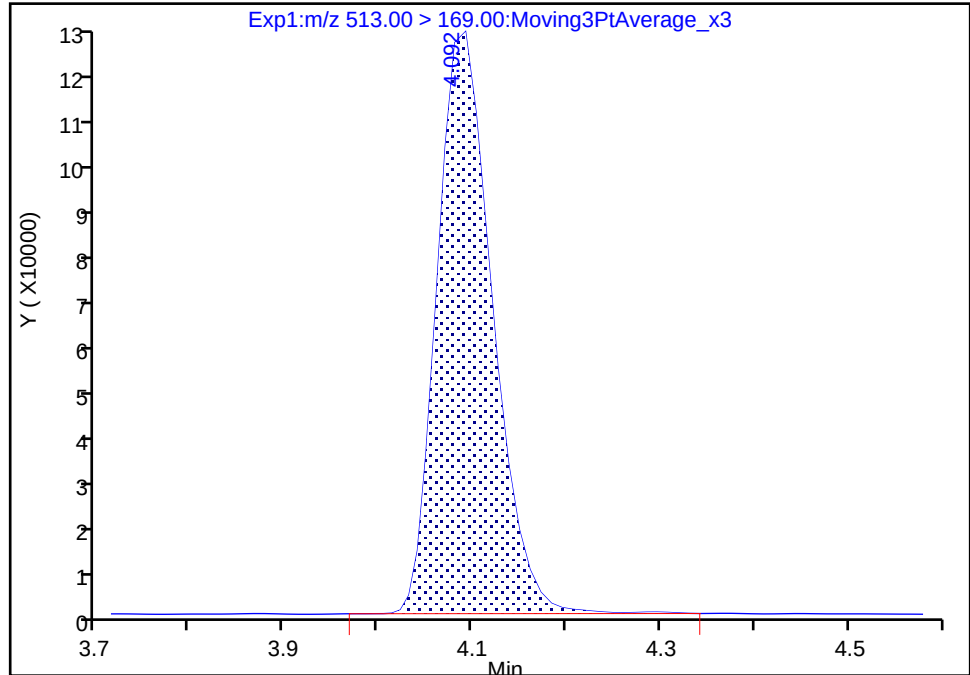
EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

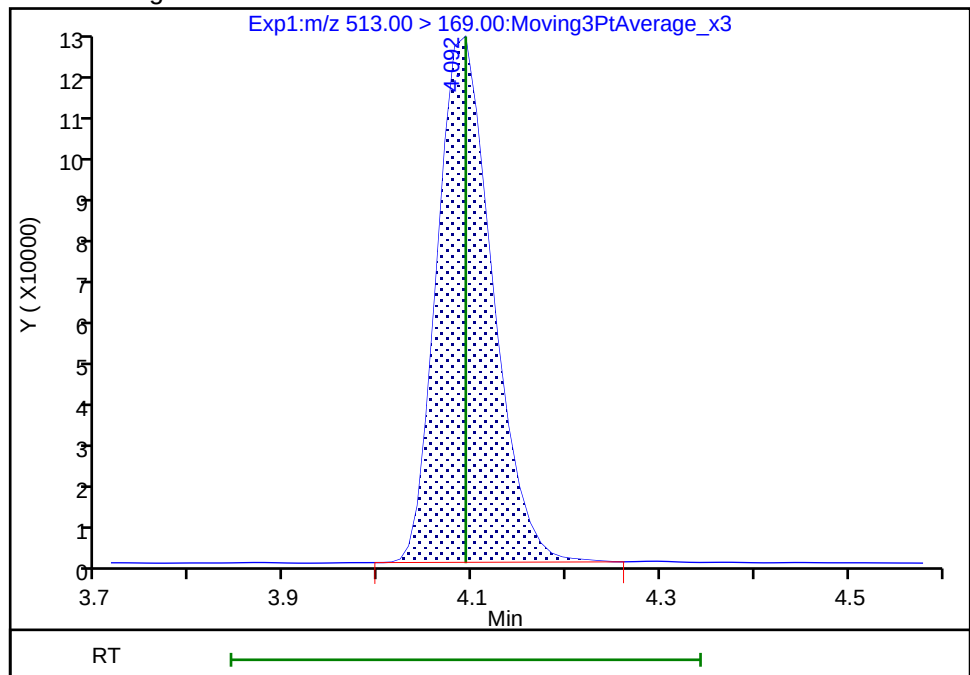
RT: 4.09
Area: 499957
Amount: 2.499553
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 497710
Amount: 2.488575
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

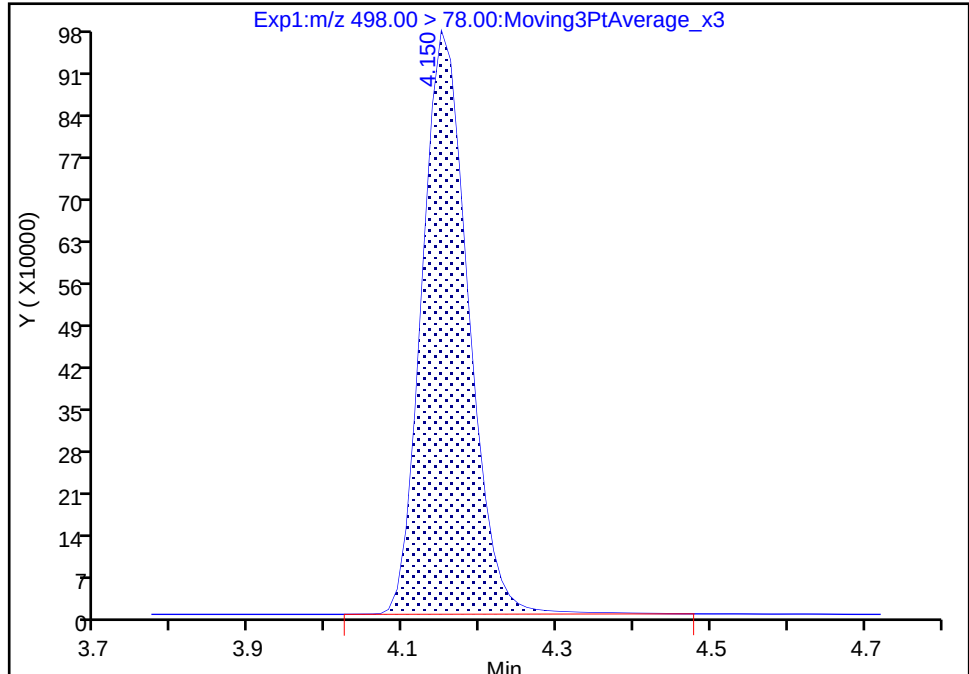
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

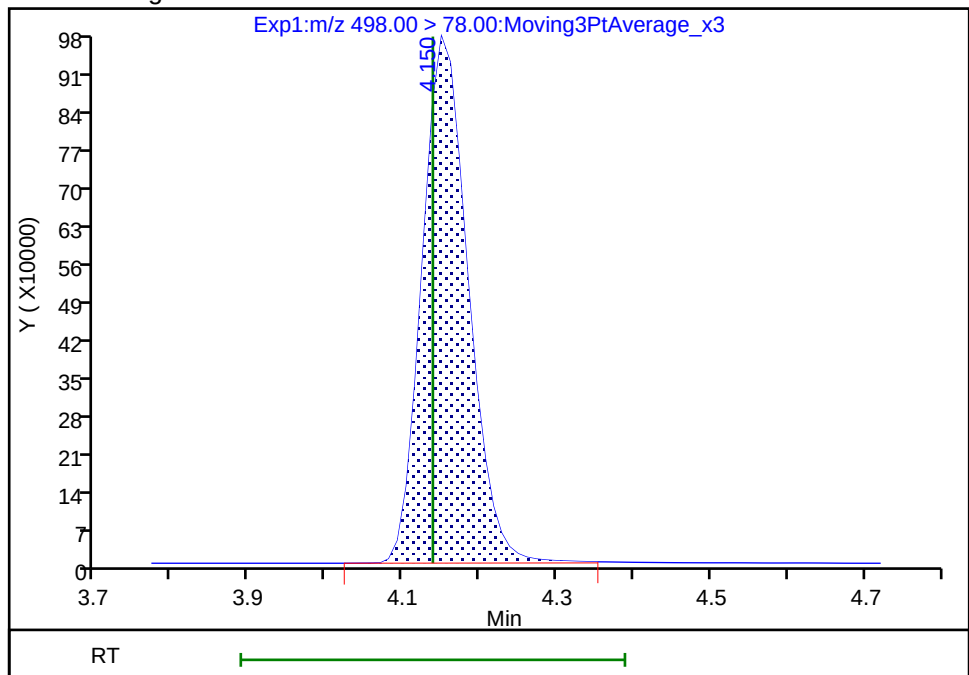
RT: 4.15
Area: 4075243
Amount: 2.552299
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4069024
Amount: 2.548404
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

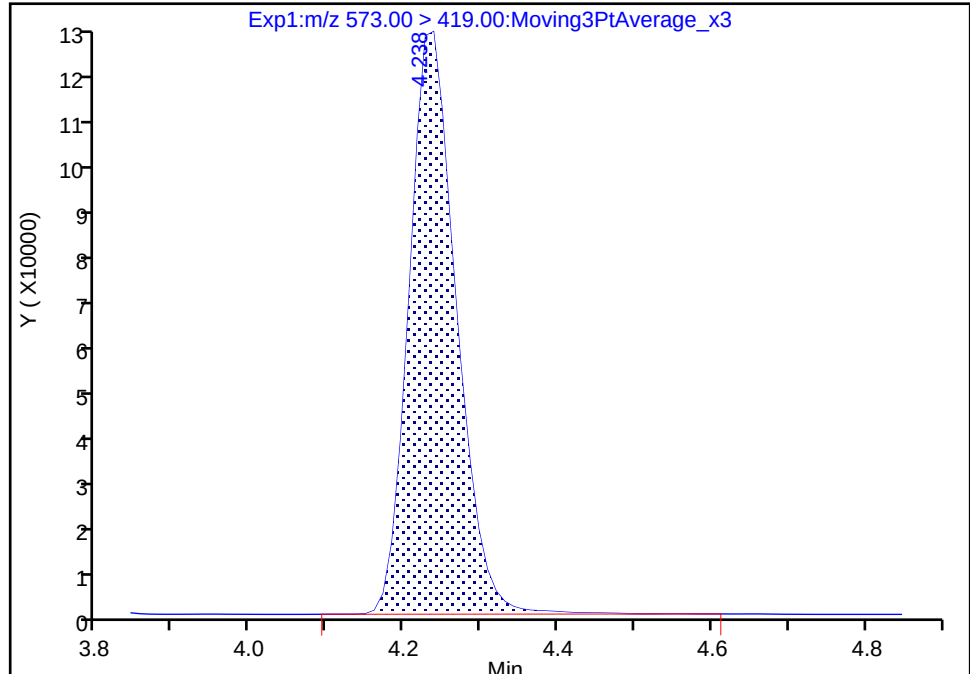
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

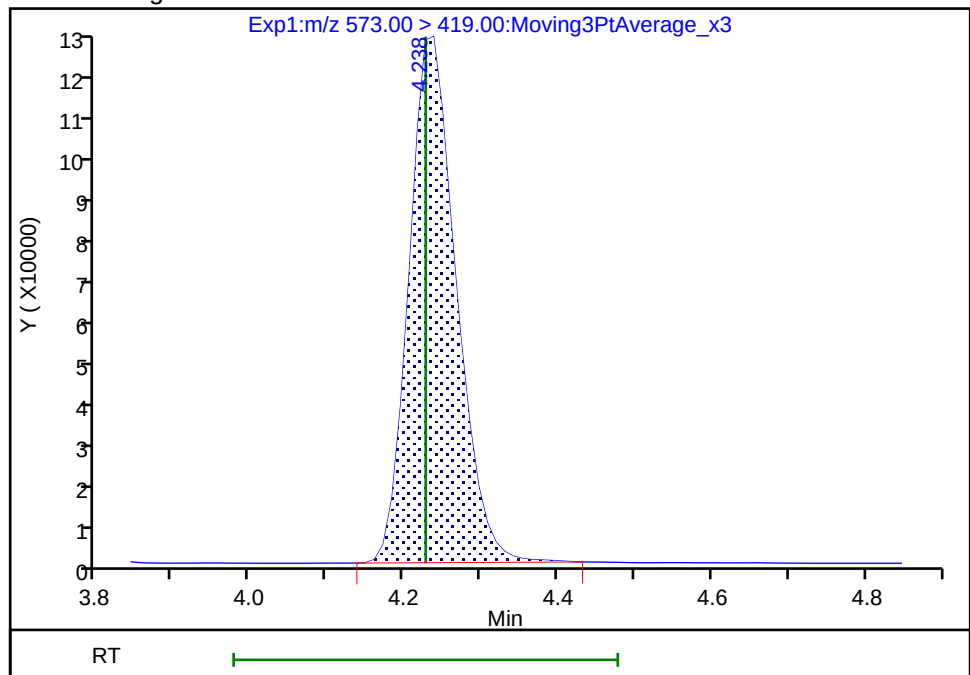
RT: 4.24
Area: 519419
Amount: 1.952324
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 516381
Amount: 1.940905
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:08:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

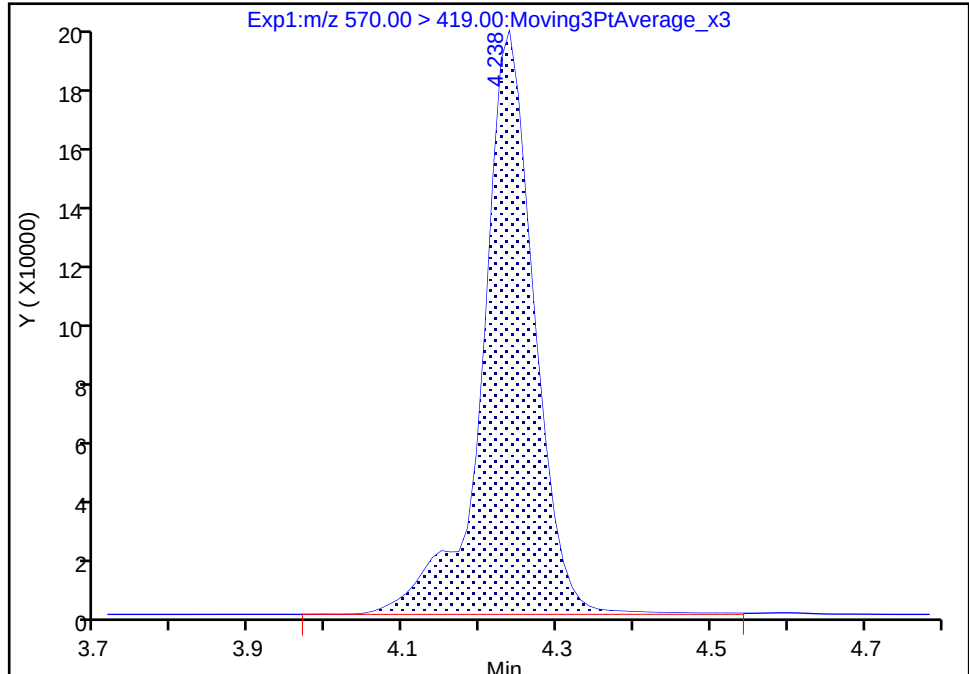
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

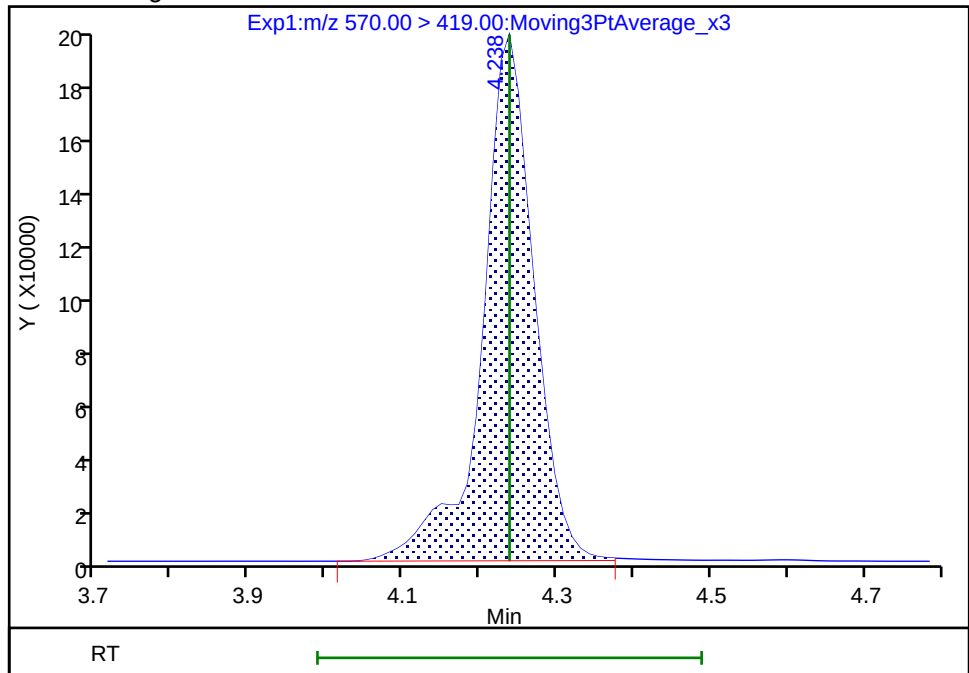
RT: 4.24
Area: 904938
Amount: 2.368706
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 896736
Amount: 2.347237
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

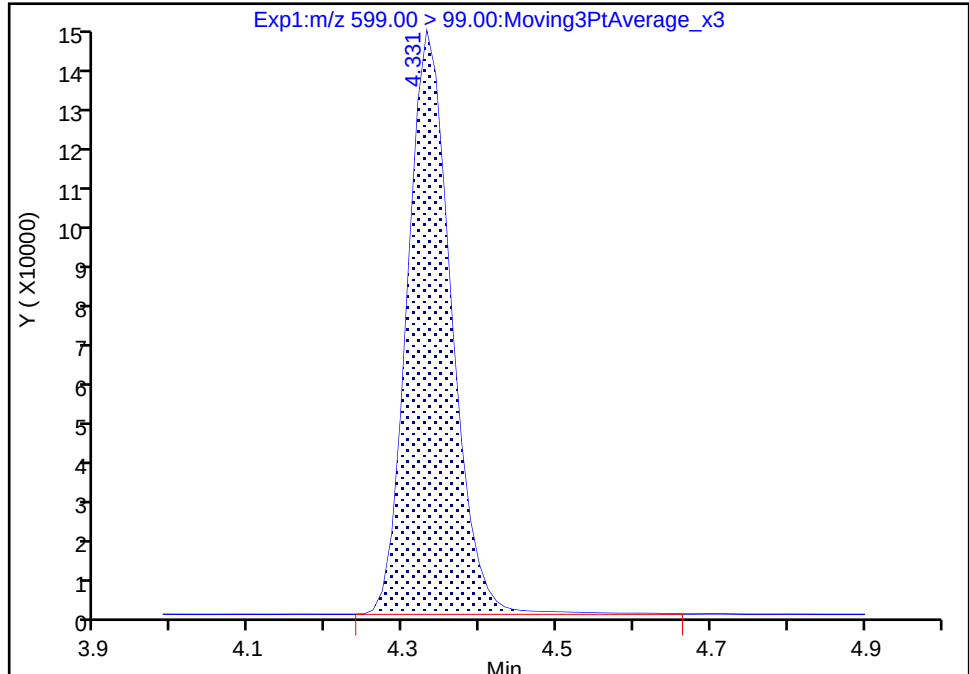
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

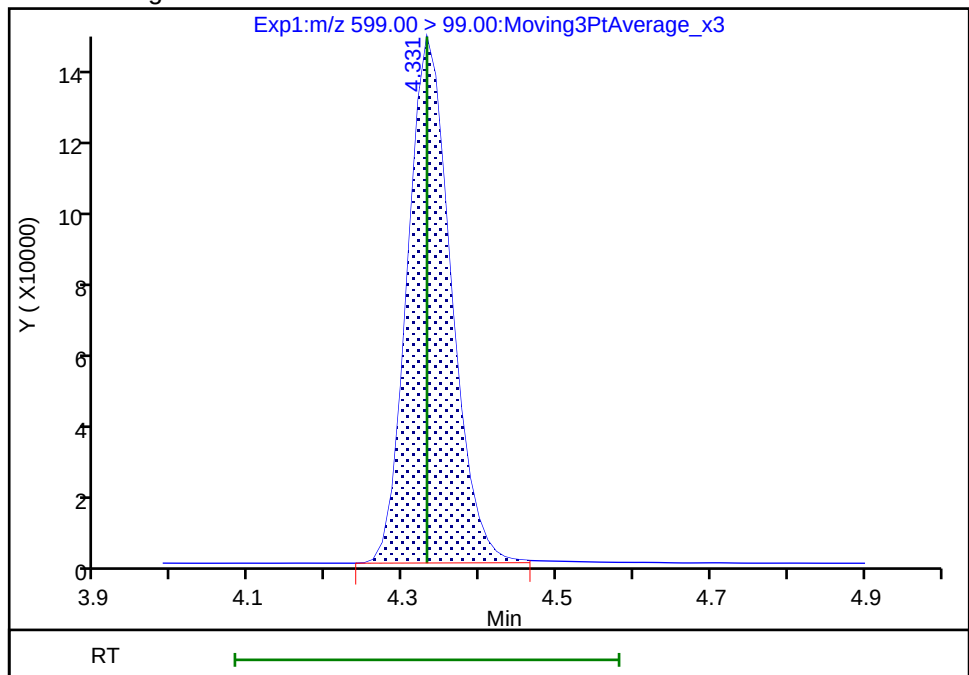
RT: 4.33
Area: 578181
Amount: 2.503042
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 573084
Amount: 2.503042
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

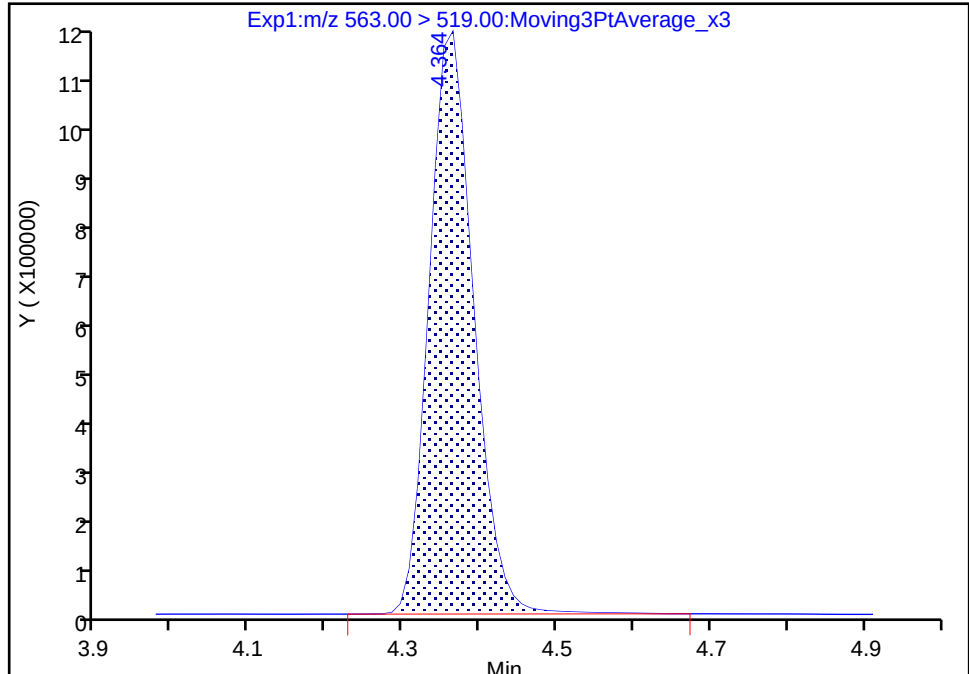
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

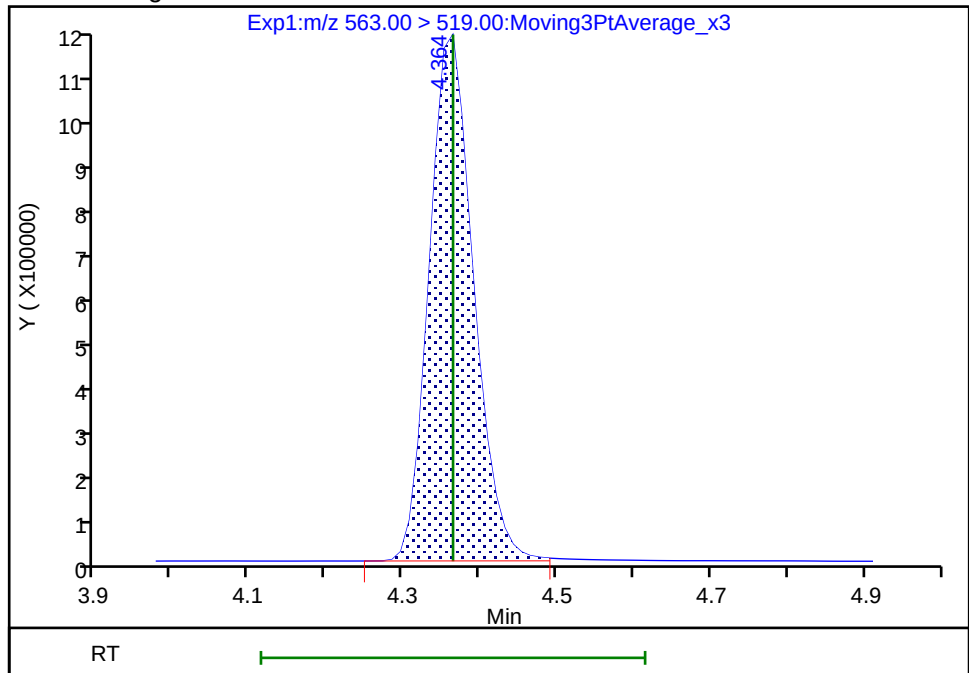
RT: 4.36
Area: 4570678
Amount: 2.496660
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 4549559
Amount: 2.485124
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:11:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

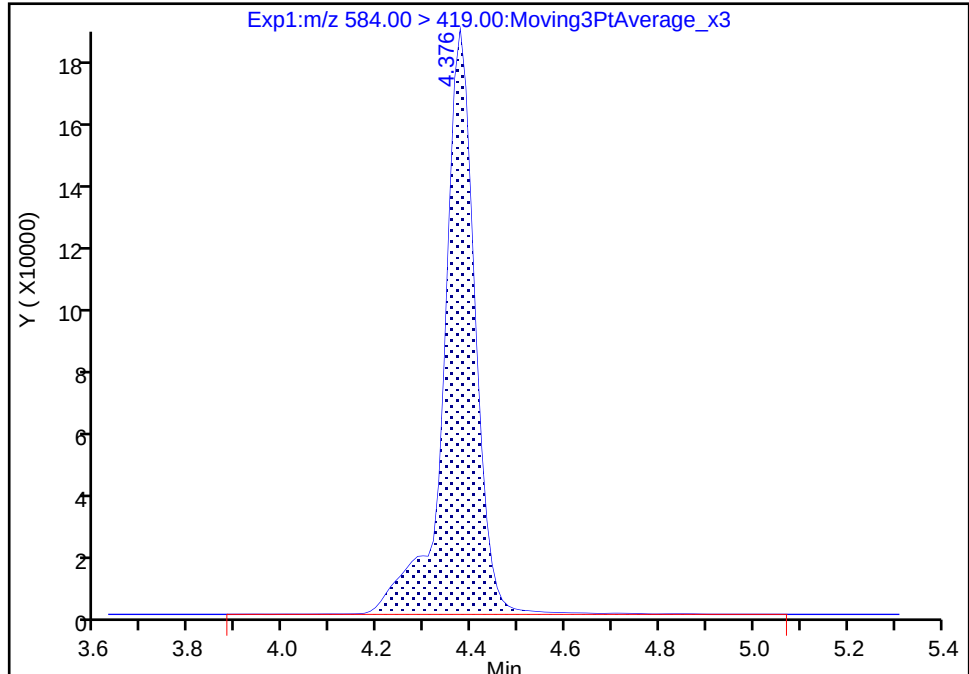
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

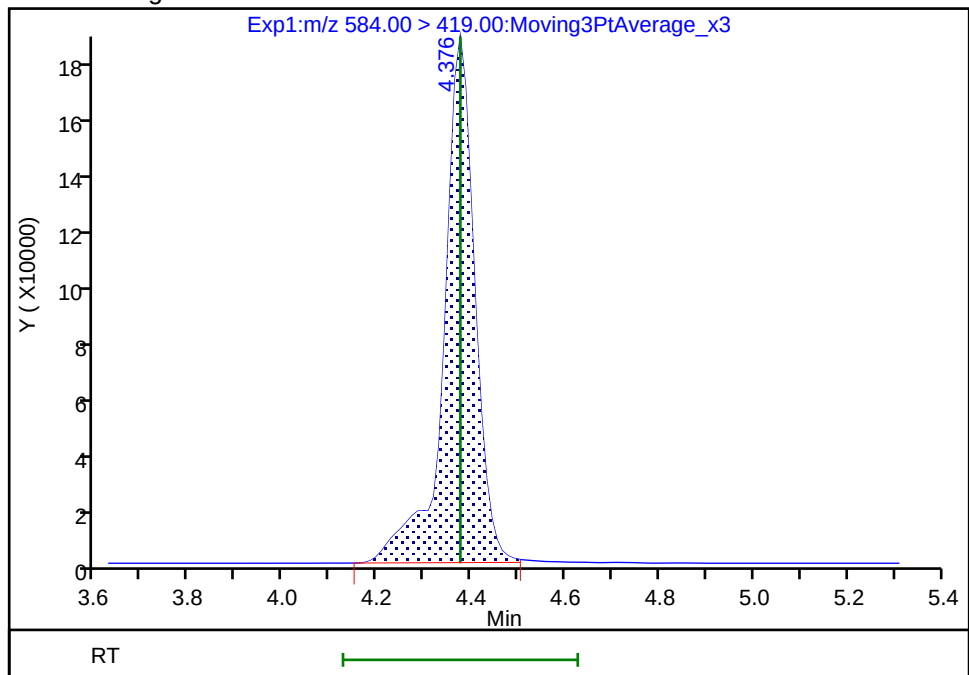
RT: 4.38
Area: 869871
Amount: 2.417169
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 857728
Amount: 2.383426
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

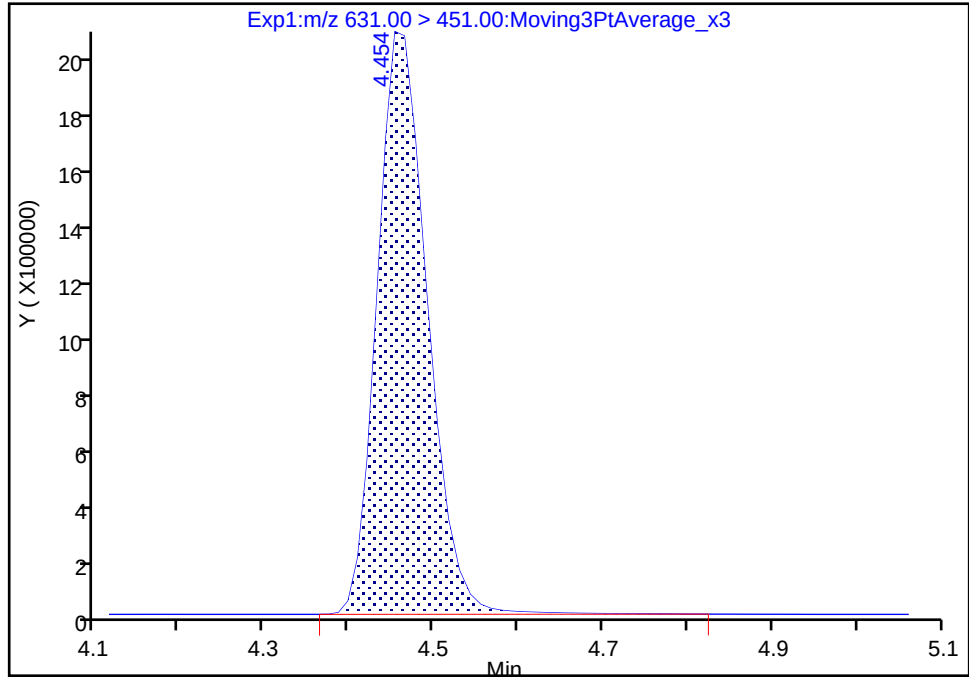
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

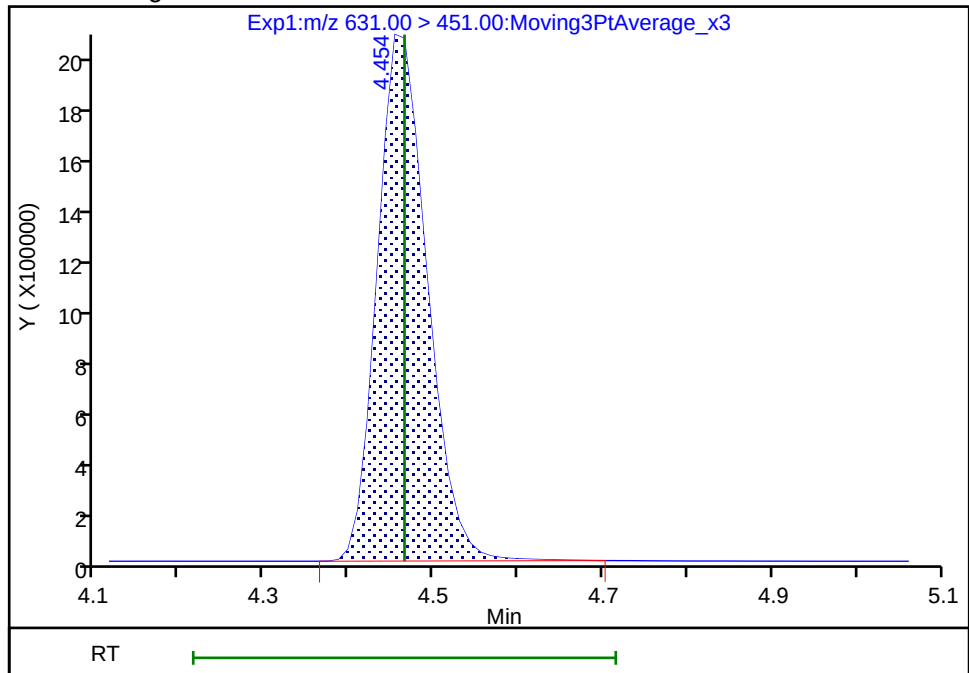
RT: 4.45
Area: 8305278
Amount: 3.043917
Amount Units: ng/ml

Processing Integration Results



RT: 4.45
Area: 8279111
Amount: 3.034327
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

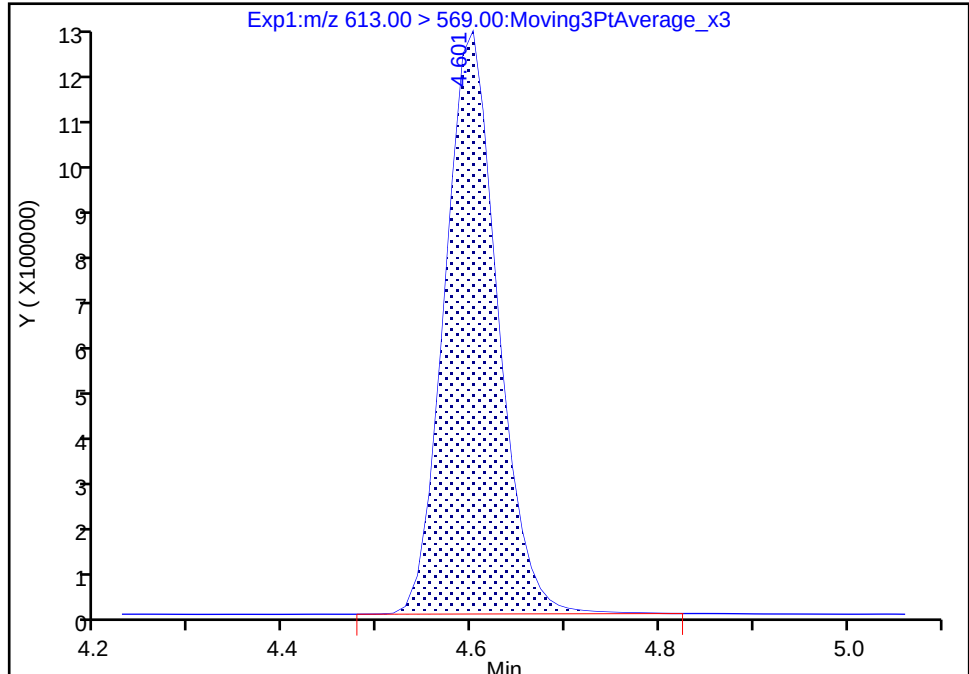
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

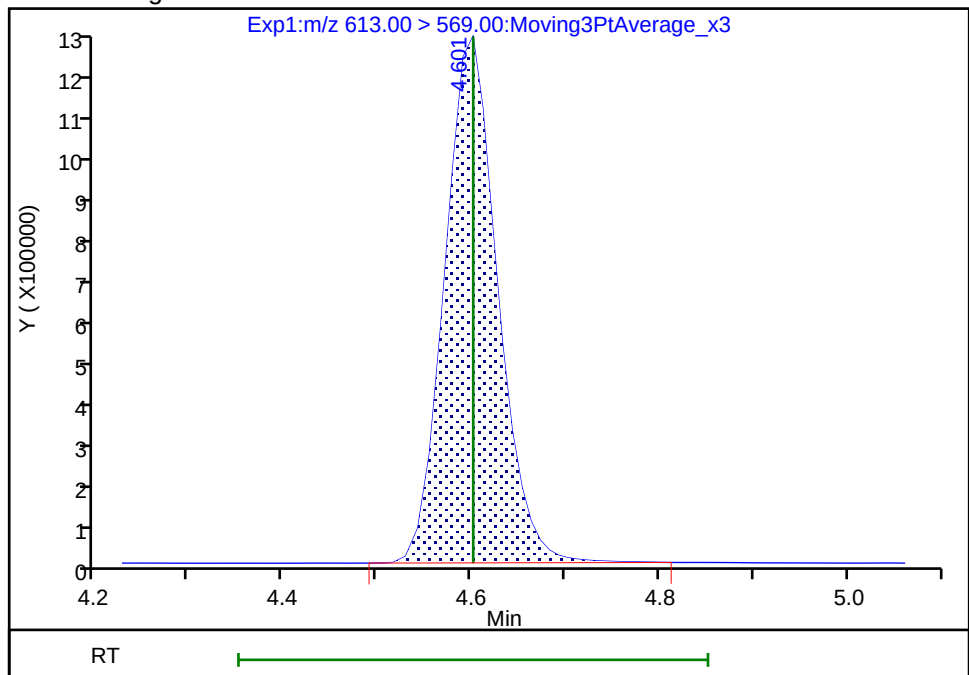
RT: 4.60
Area: 4761256
Amount: 2.441211
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 4759693
Amount: 2.440410
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

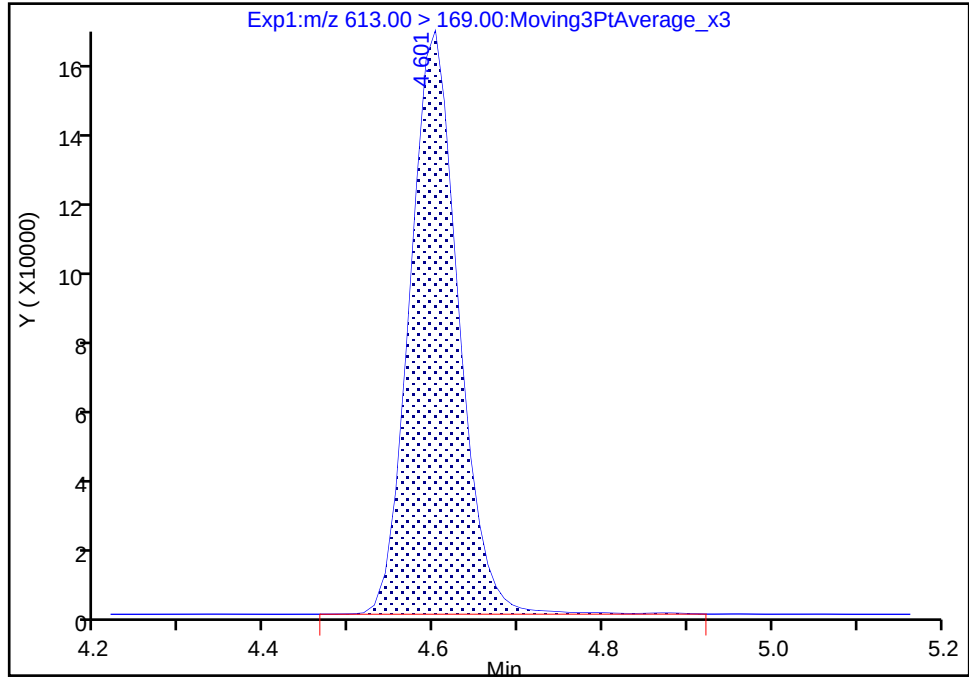
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

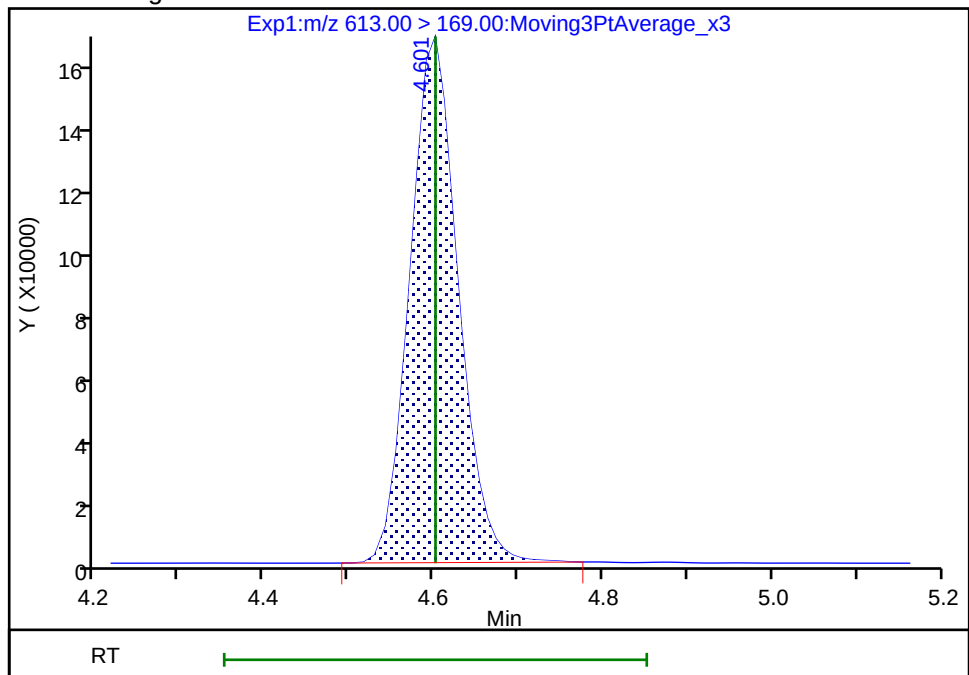
RT: 4.60
Area: 638042
Amount: 2.441211
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 633321
Amount: 2.440410
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

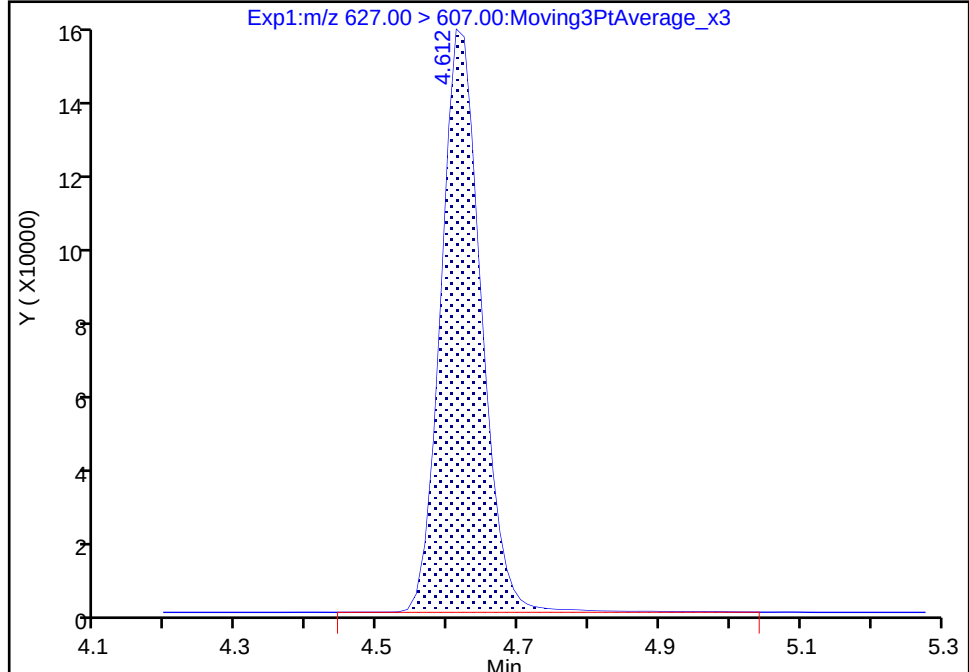
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

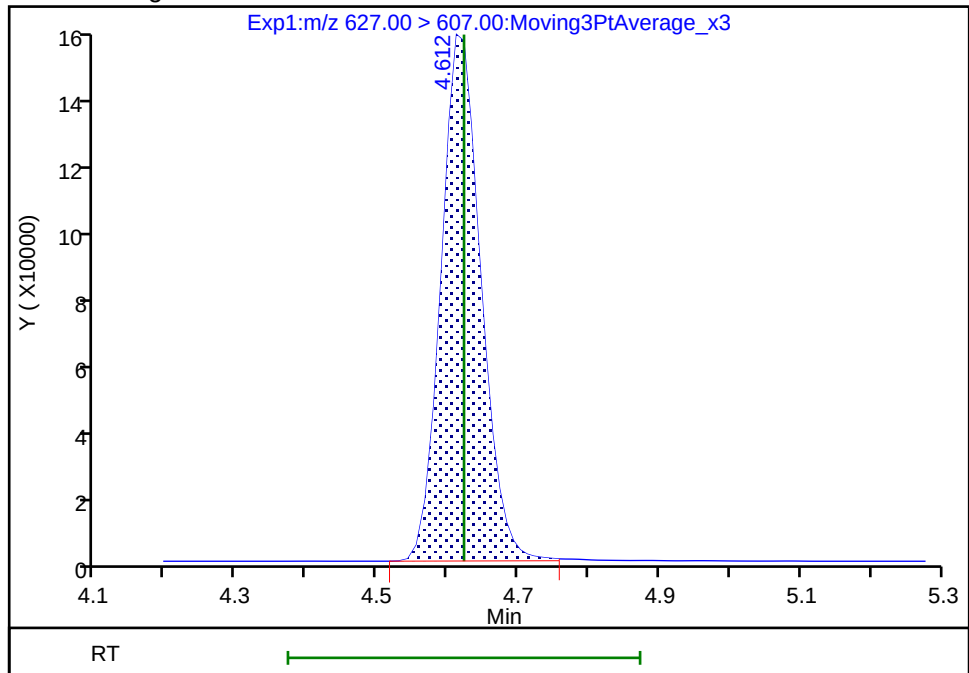
RT: 4.61
Area: 616599
Amount: 3.488638
Amount Units: ng/ml

Processing Integration Results



RT: 4.61
Area: 612033
Amount: 3.462804
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

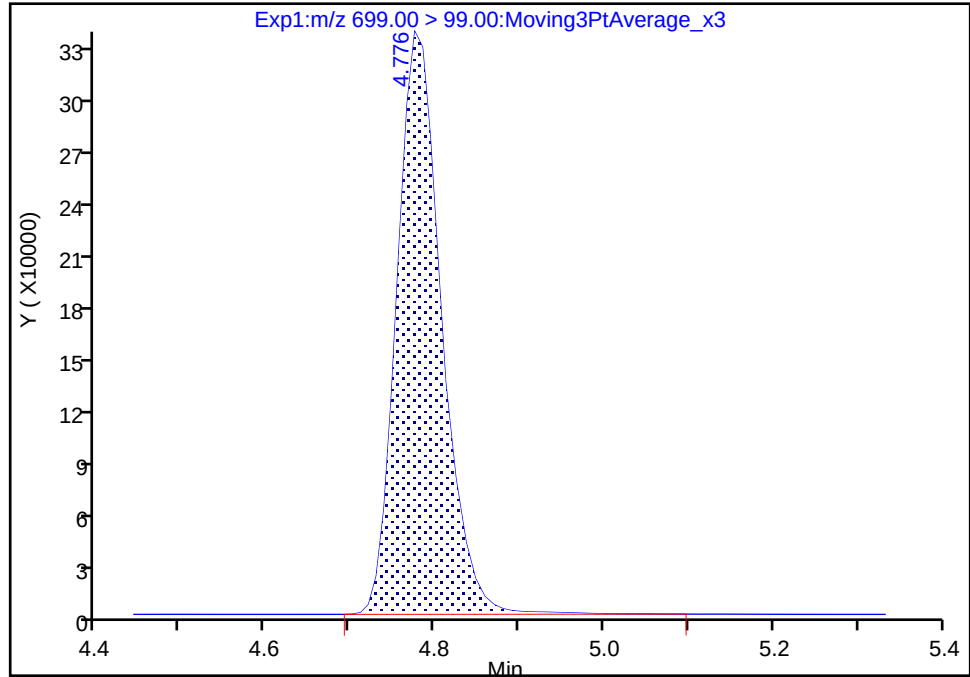
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

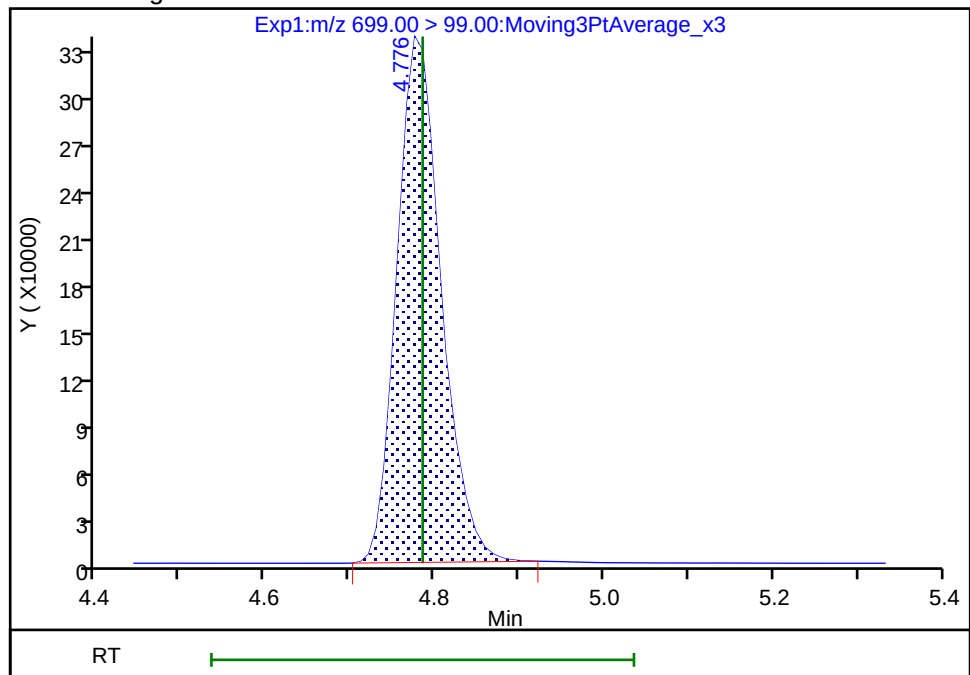
RT: 4.78
Area: 1241542
Amount: 2.523349
Amount Units: ng/ml

Processing Integration Results



RT: 4.78
Area: 1228870
Amount: 2.523349
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

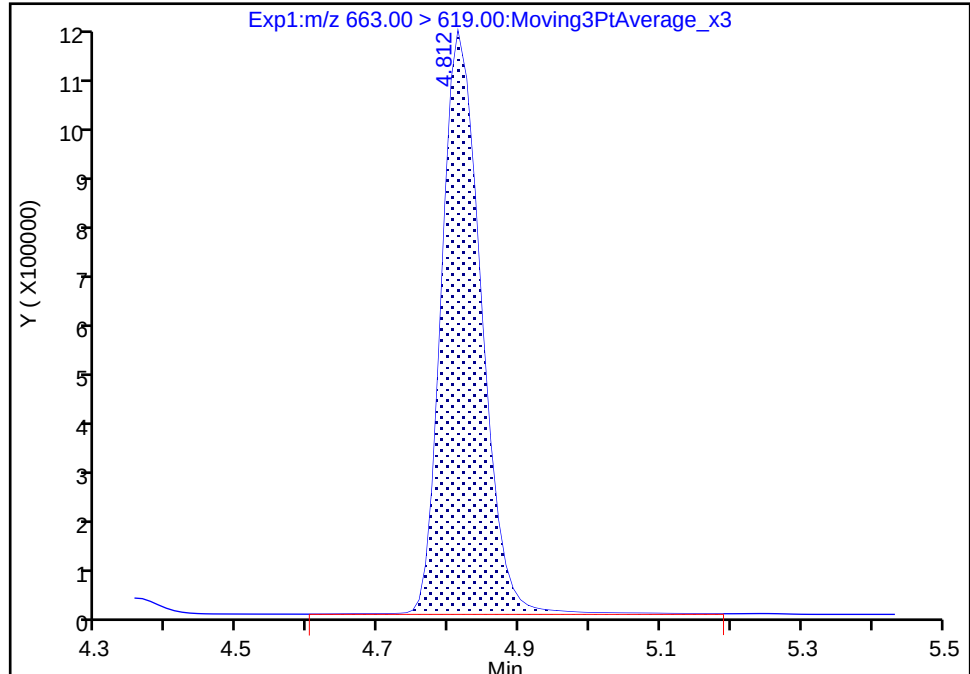
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

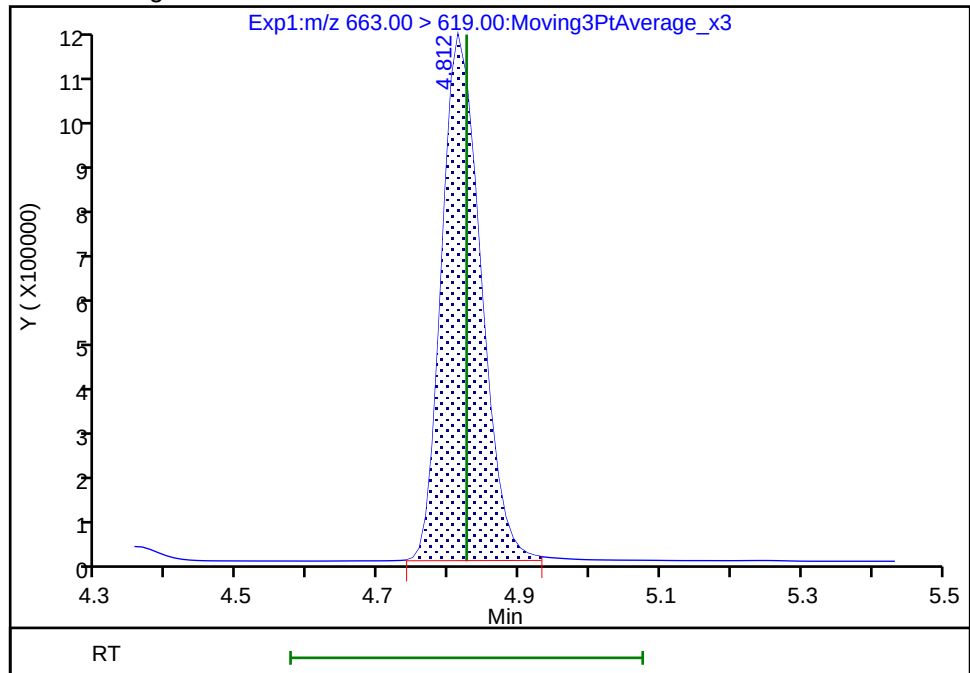
RT: 4.81
Area: 4488339
Amount: 2.510970
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4418123
Amount: 2.471689
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:12:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

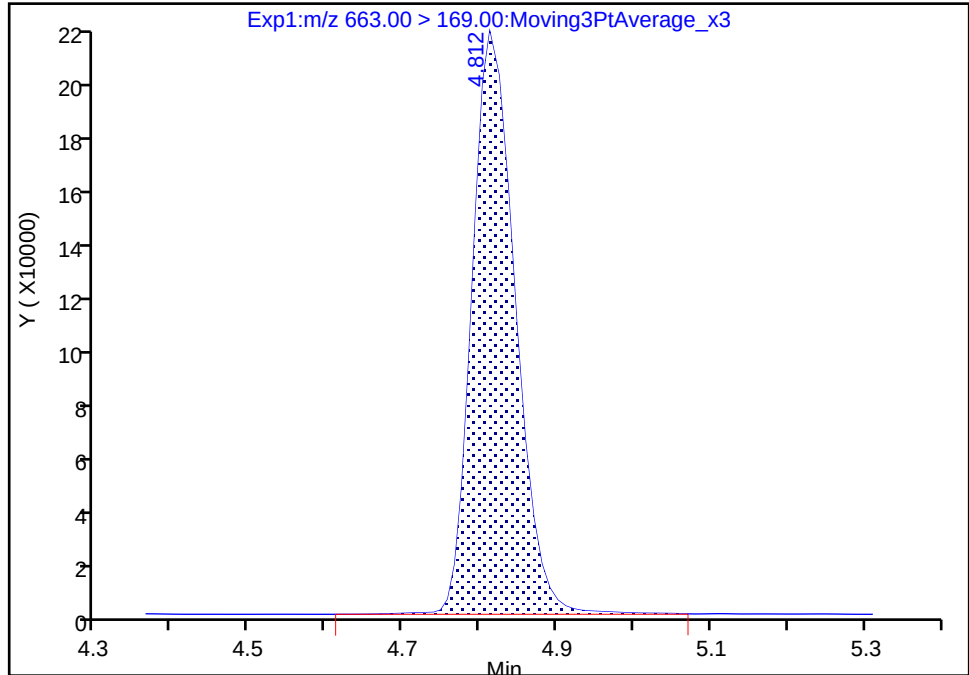
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

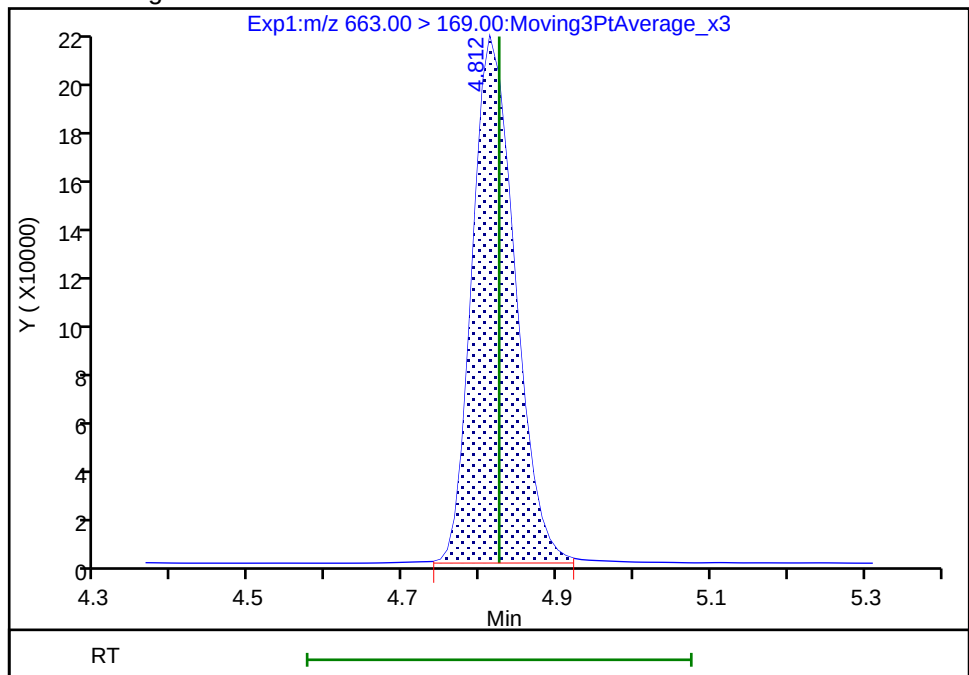
RT: 4.81
Area: 843460
Amount: 2.510970
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 835124
Amount: 2.471689
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 702 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

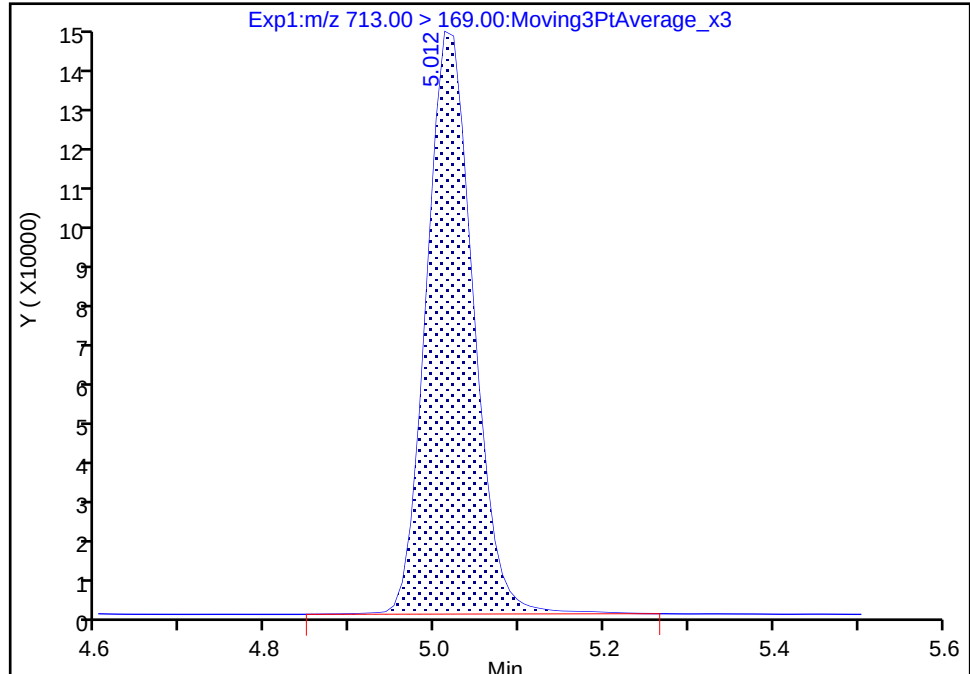
Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

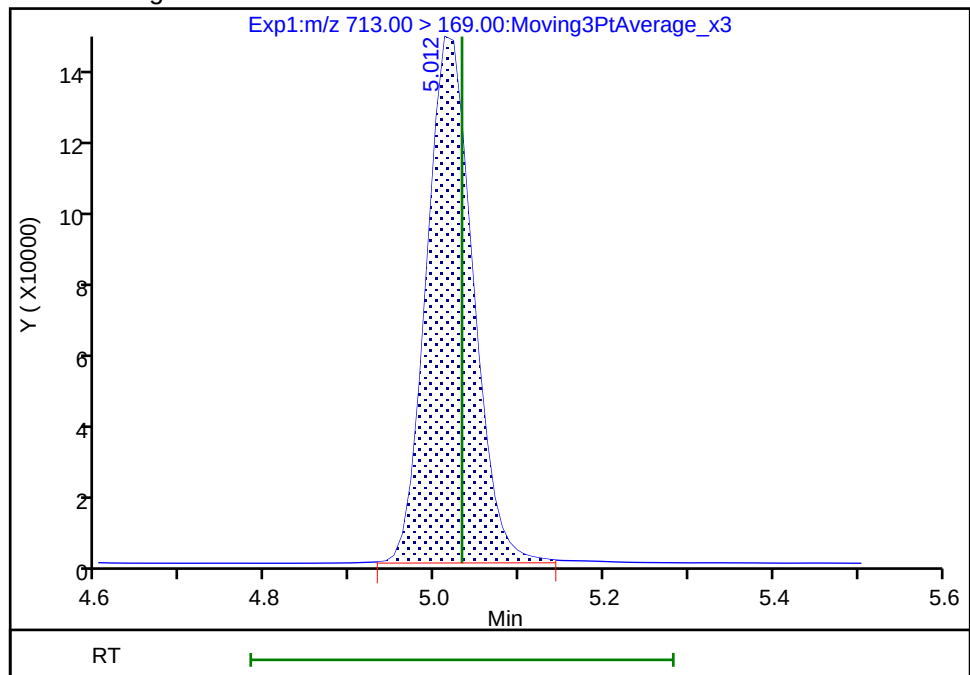
RT: 5.01
Area: 547055
Amount: 2.196192
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 544373
Amount: 2.185425
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

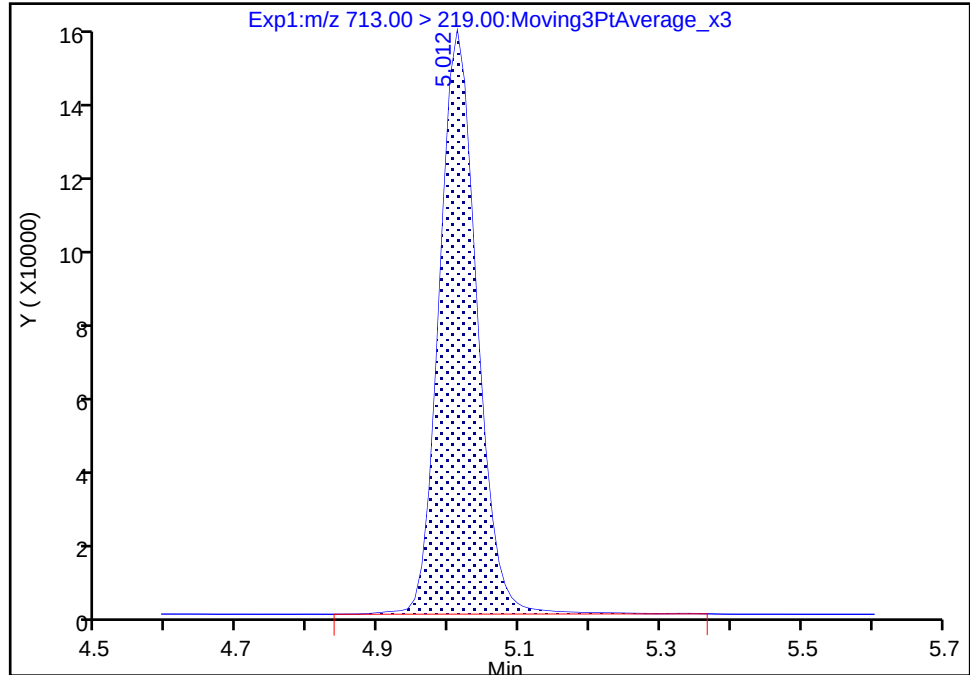
EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

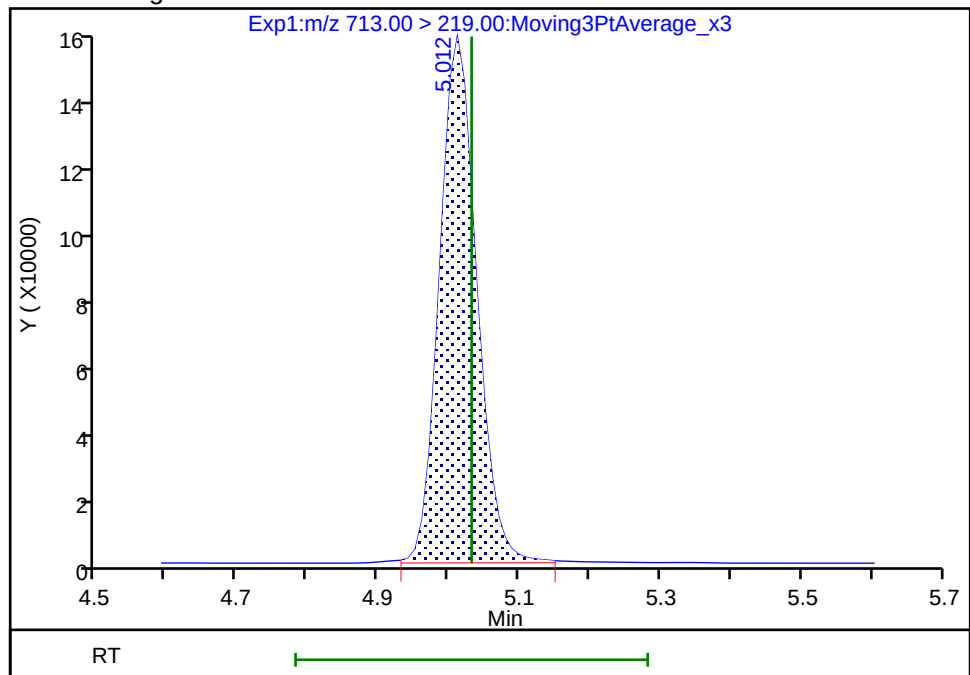
RT: 5.01
Area: 581171
Amount: 2.196192
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 576611
Amount: 2.185425
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

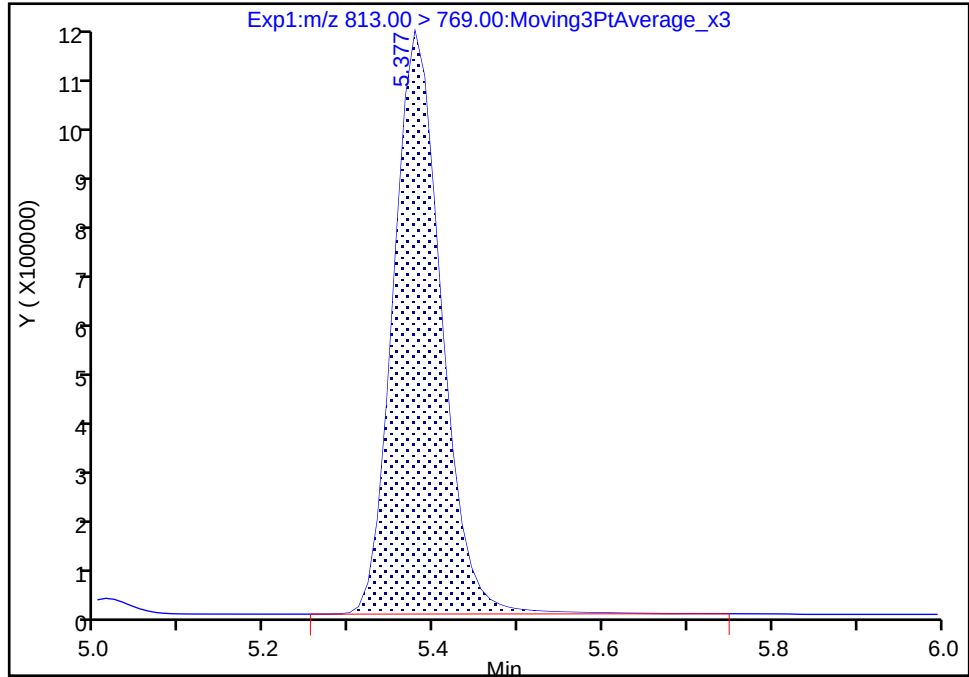
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

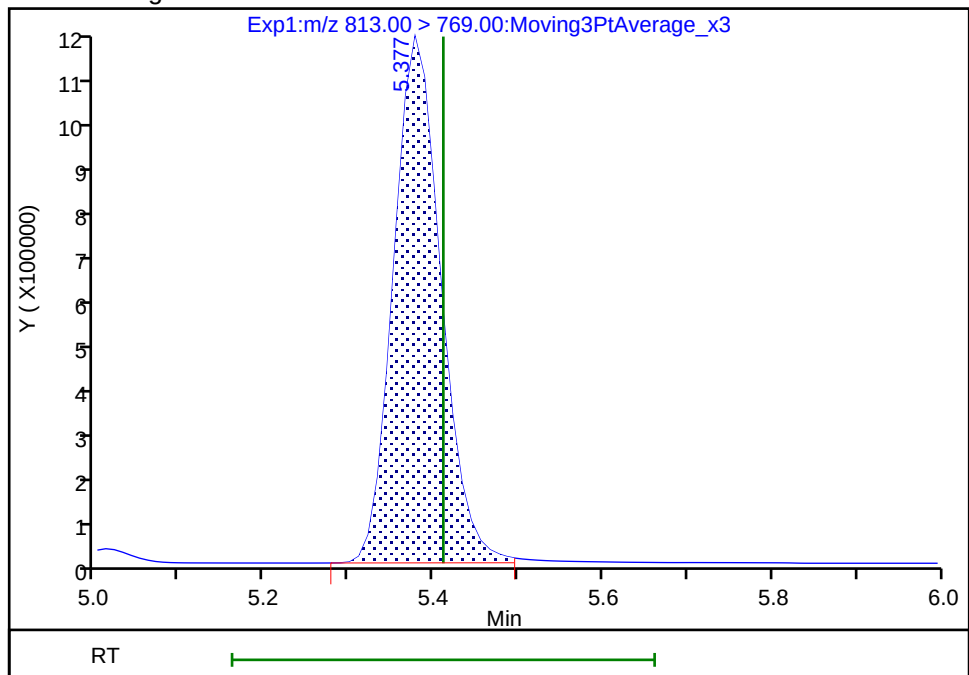
RT: 5.38
Area: 4433711
Amount: 2.527681
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 4398940
Amount: 2.507644
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

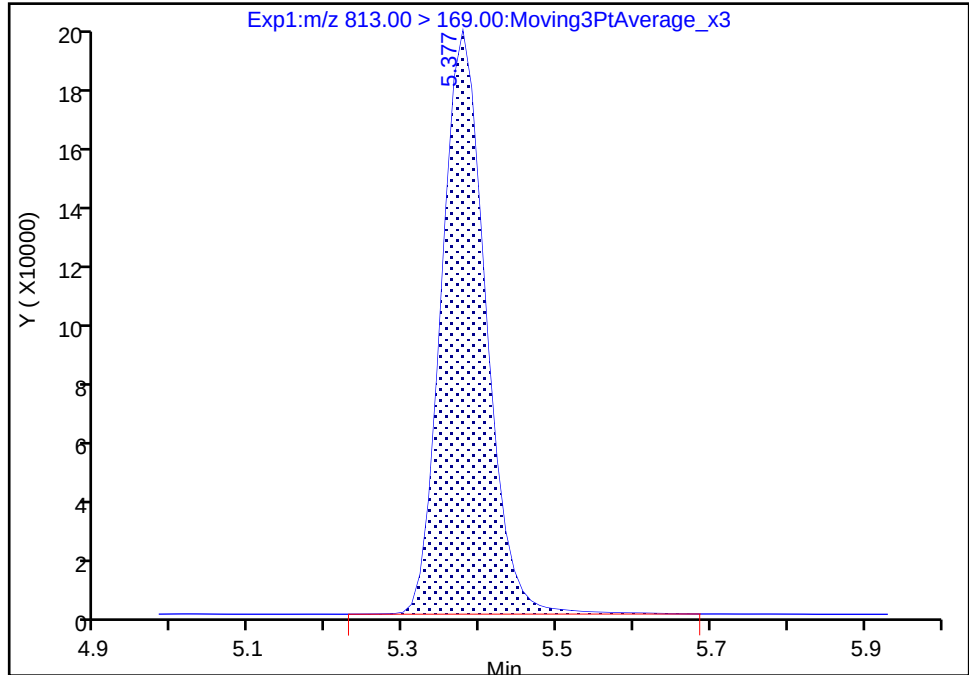
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

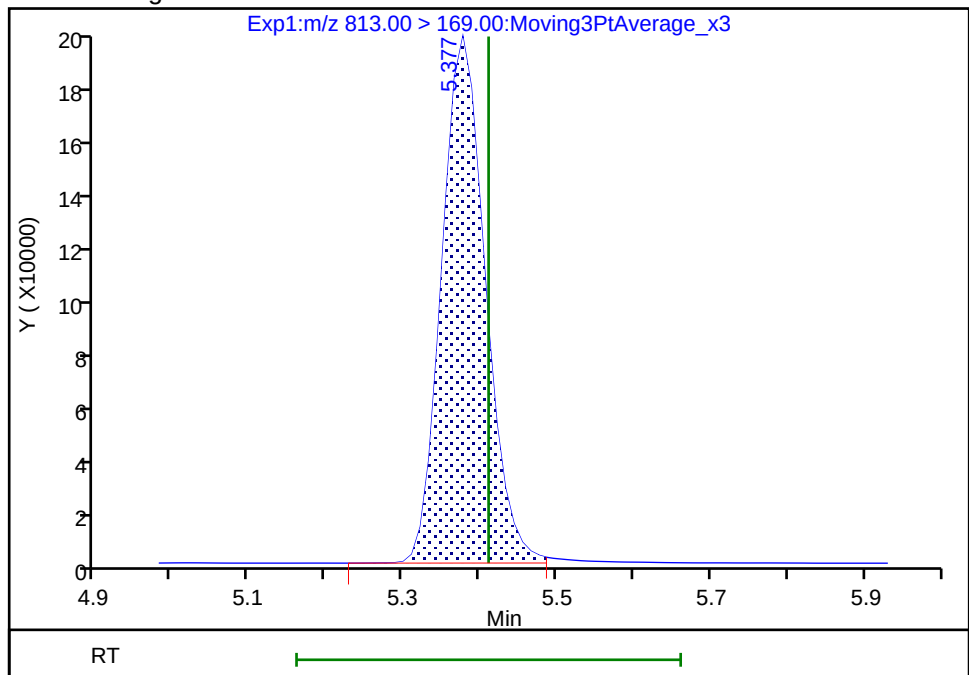
RT: 5.38
Area: 756349
Amount: 2.527681
Amount Units: ng/ml

Processing Integration Results



RT: 5.38
Area: 749972
Amount: 2.507644
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 706 of 97811/21/2022
4:10 PM

Eurofins Burlington

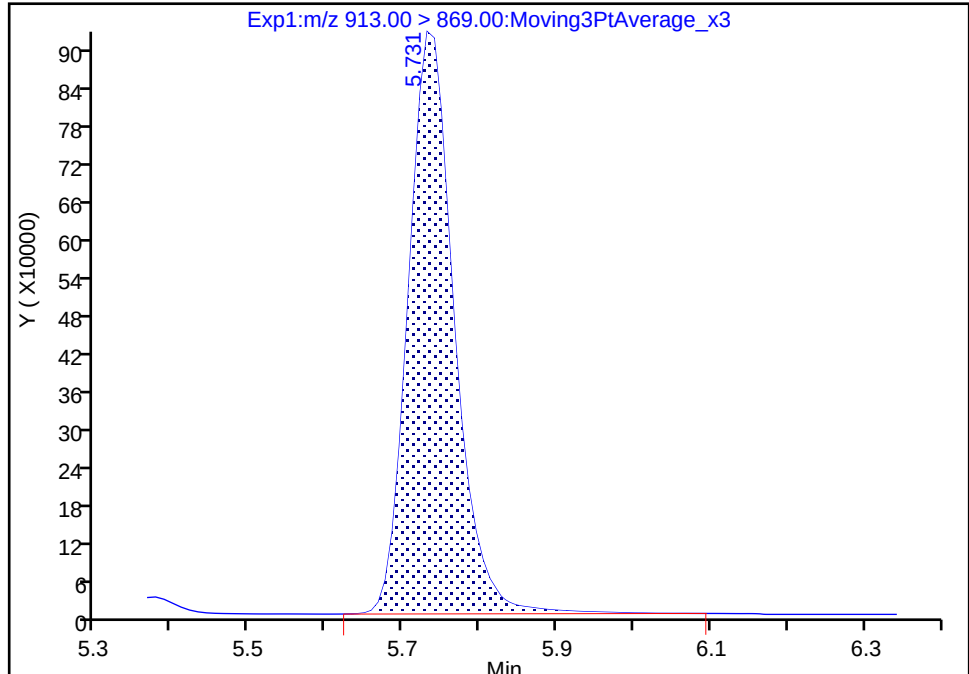
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d
Injection Date: 16-Nov-2022 23:29:18 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

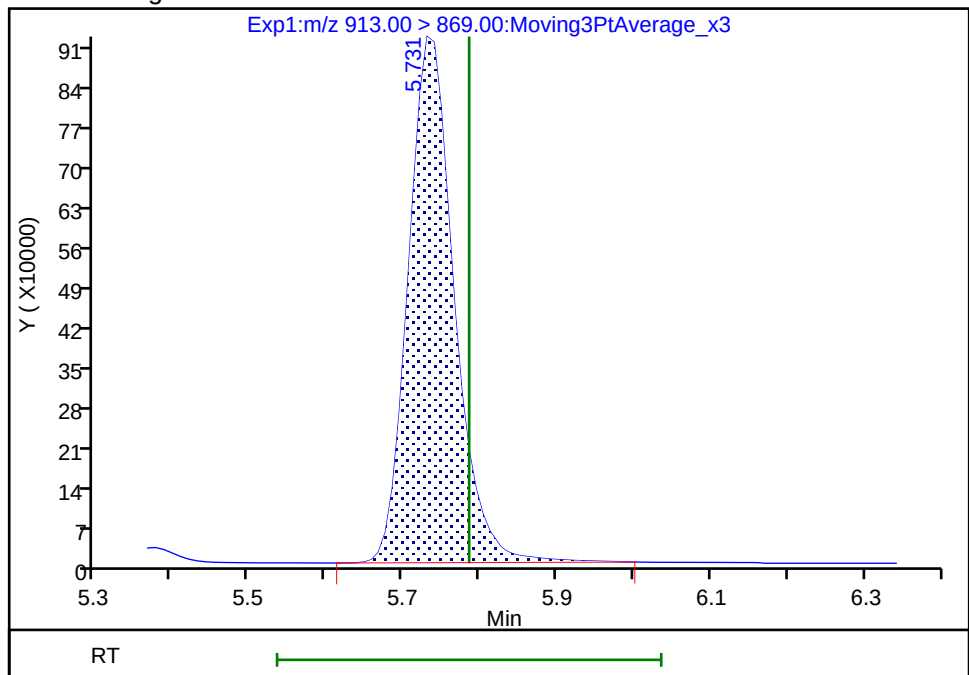
RT: 5.73
Area: 3816808
Amount: 2.696510
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 3806196
Amount: 2.689012
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D26.d

Injection Date: 16-Nov-2022 23:29:18

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

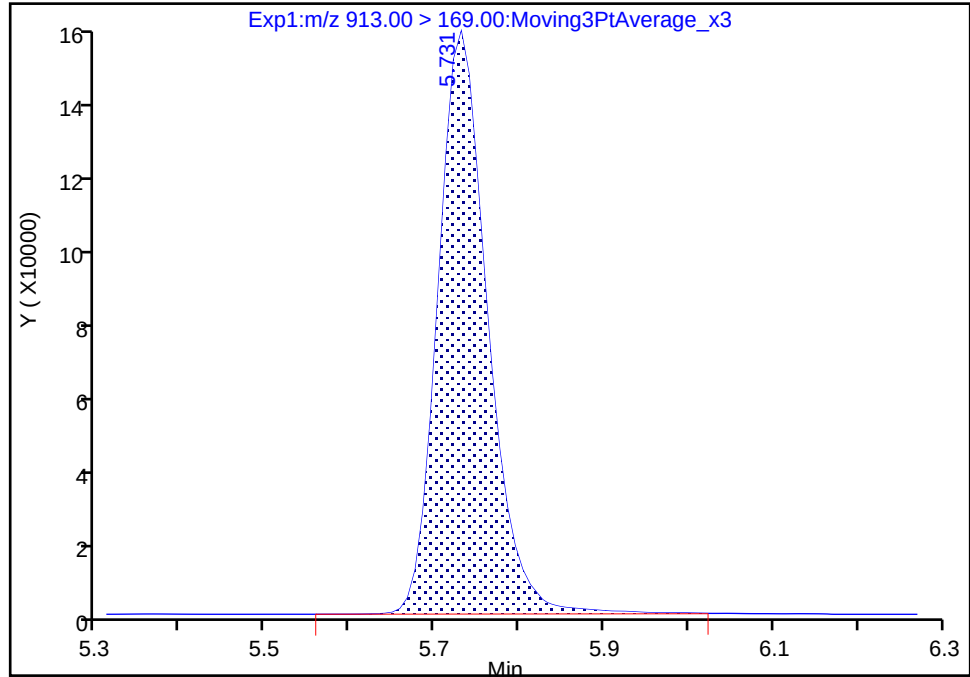
EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

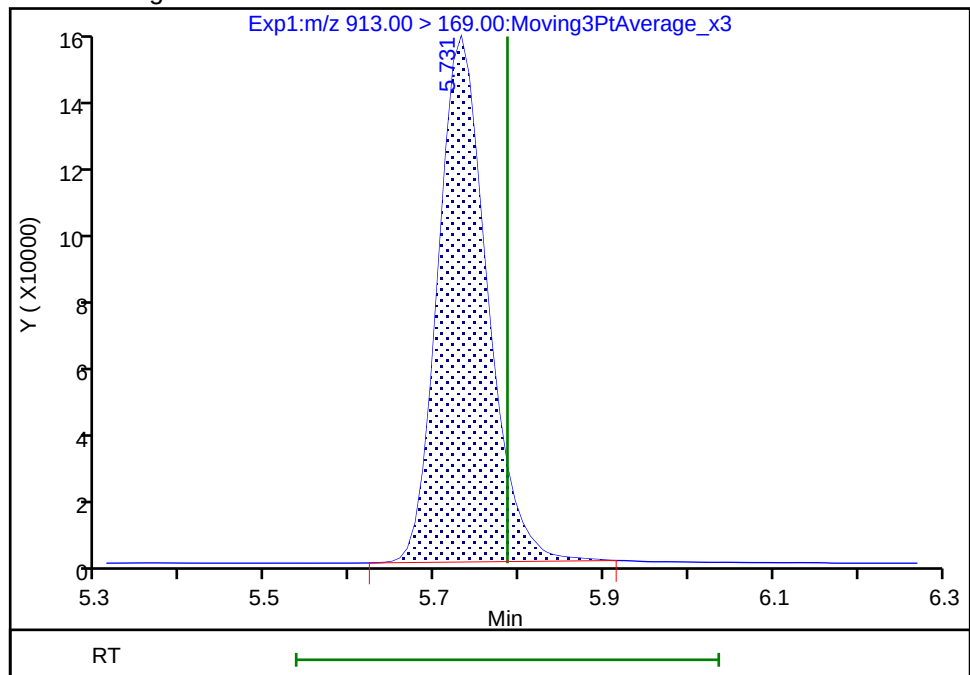
RT: 5.73
Area: 612327
Amount: 2.696510
Amount Units: ng/ml

Processing Integration Results



RT: 5.73
Area: 604200
Amount: 2.689012
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 15:13:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-185793/1-A
 Matrix: Solid Lab File ID: PA221116D02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.00 (g) Date Analyzed: 11/16/2022 20:12
 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.: 185848 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
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
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.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-185793/1-A

Matrix: Solid Lab File ID: PA221116D02.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.00 (g) Date Analyzed: 11/16/2022 20:12

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.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	78		50-150
STL01892	13C4 PFHpA	77		50-150
STL00990	13C4 PFOA	84		50-150
STL00991	13C4 PFOS	81		50-150
STL00995	13C5 PFNA	79		50-150
STL00992	13C4 PFBA	65		50-150
STL00993	13C2 PFHxA	79		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	93		50-150
STL00998	13C2 PFDoA	84		50-150
STL01056	13C8 FOSA	81		50-150
STL01893	13C5 PFPeA	70		50-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	117		50-150
STL02117	d5-NEtFOSAA	118		50-150
STL02279	M2-6:2 FTS	83		50-150
STL02280	M2-8:2 FTS	82		50-150
STL02337	13C3 PFBS	75		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
 Lims ID: MB 200-185793/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 16-Nov-2022 20:12:47 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-185793/1-A
 Misc. Info.: 200-0053360-002 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:21 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 13:48:38

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	2.068	2.068	0.0	0.600	2006570	0.8067		64.5	6549	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.076	2.076	0.0	1.004	72649	0.0447			5.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.688	1720981	0.8794		70.4	2385	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	11648	0.007908			0.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.387	2.386	0.001	0.692	1730351	0.8728		75.1	180202	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.400	2.400	0.0	1.006	2864	0.001669	Target=2.19		4.3	M
298.90 > 99.00	2.400	2.400	0.0	1.006	1575		1.82(1.09-3.28)		0.8	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.689	2.689	0.0	1.000	334	0.000846			4.1	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.689	2.689	0.0	0.780	169946	0.9457		81.0	163	
D 7 13C2 PFHxA										
315.00 > 270.00	2.725	2.725	0.0	0.790	1969066	0.9896		79.2	2752	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.725	2.725	0.0	1.000	3739	0.002186	Target=13.67		1.0	M
313.00 > 119.00	2.750	2.725	0.025	1.009	322		11.61(6.83-20.50)		0.7	M
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	2.725	2.725	0.0	0.883	507	0.000333	Target=3.00		0.9	RM
349.00 > 99.00	2.737	2.725	0.012	0.887	395		1.28(1.50-4.51)		1.1	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.835	2.823	0.012	0.822	342121	0.9160		73.3	1514	

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	2.823	0.024	1.004	415	0.001388		3.0		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1311226	0.9263		78.3	4042	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	4314	0.003344	Target=3.60	5.8		M
399.00 > 99.00	3.088	3.088	0.0	1.000	1975		2.18(1.80-5.40)	3.4		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.099	3.088	0.011	0.899	1874549	0.9588		76.7	4230	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.110	3.088	0.022	1.004	4052	0.002424	Target=3.76	0.8		M
363.00 > 169.00	3.099	3.088	0.011	1.000	1177		3.44(1.88-5.65)	3.0		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.430	0.009	0.997	237051	0.9806		82.6	1052	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.430	0.009	1.000	1142	0.003140		4.9		M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	2205017	1.05		84.4	2446	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2548956	1.25			5448	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.439	3.439	0.0	0.997	8931	0.004473	Target=2.73	0.5		RM
413.00 > 169.00	3.448	3.439	0.009	1.000	1926		4.64(1.37-4.10)	3.2		M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	901669	0.9667		80.9	2964	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.764	0.038	1.010	6935	0.007565	Target=5.09	1.4		M
499.00 > 99.00	3.773	3.764	0.009	1.003	1377		5.04(2.55-7.64)	1.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2023322	0.9838		78.7	2998	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.940	3.928	0.012	1.047	1013	0.000551		5.5		M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.041	4.061	-0.020	1.074	365	0.000546	Target=2.67	3.8		RM
549.00 > 99.00	4.032	4.061	-0.029	1.071	295		1.24(1.34-4.01)	3.1		M
D 23 13C2 PFDA										
515.00 > 470.00	4.093	4.093	0.0	1.187	2216990	1.11		88.7	8182	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	279423	0.9775		81.6	1080	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.116	4.093	0.023	1.006	436	0.001508		6.2		M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1649892	1.01		81.1	2407	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.161	4.138	0.023	1.003	3138	0.002354		8.9		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	413101	1.47		117	722	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	4.238	4.238	0.0	1.002	3445	0.0113		8.3		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.342	4.331	0.011	1.154	430	0.000826	Target=2.59	5.0		M
599.00 > 99.00	4.319	4.331	-0.012	1.148	319		1.35(1.30-3.89)	5.7		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.365	-0.012	1.263	1897417	1.16		92.8	2228	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.365	4.365	0.0	1.003	3767	0.002379	Target=9.68	2.0		M
563.00 > 169.00	4.342	4.365	-0.023	0.997	359		10.49(4.84-14.53)	5.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	412264	1.48		118	778	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.376	0.0	1.003	4876	0.0162		50.3		M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.465	4.465	0.0	1.186	2482	0.001037		15.6		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.602	4.602	0.0	1.335	1684644	1.06		84.4	3647	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.602	-0.011	0.998	4311	0.002993	Target=6.96	0.4		M
613.00 > 169.00	4.602	4.602	0.0	1.000	547		7.88(3.48-10.43)	8.0		M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.623	4.622	0.0	1.129	671	0.004274		12.6		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.825	-0.012	1.046	4035	0.003057	Target=4.85	0.4		M
663.00 > 169.00	4.813	4.825	-0.012	1.046	711		5.68(2.42-7.27)	7.0		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.454	1315620	0.9648		77.2	3612	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.032	-0.020	1.000	703	0.004294	Target=0.99	14.5		M
713.00 > 219.00	5.002	5.032	-0.030	0.998	530		1.33(0.49-1.48)	9.1		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.400	-0.033	1.557	1673825	1.11		88.9	4660	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.411	-0.033	1.002	18510	-0.0117	Target=4.99	3.0		M
813.00 > 169.00	5.378	5.411	-0.033	1.002	3271		5.66(2.49-7.48)	40.9		M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.786	-0.055	1.068	3845	0.003973	Target=4.90	0.9		M
913.00 > 169.00	5.722	5.786	-0.064	1.066	717		5.36(2.45-7.35)	14.6		M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

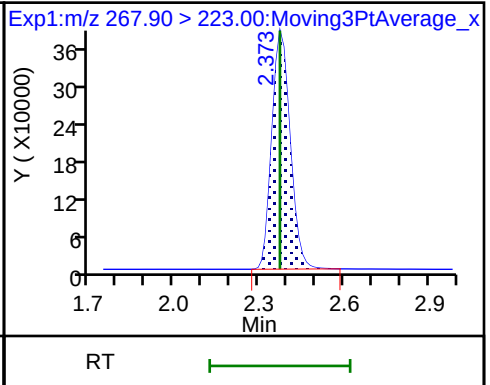
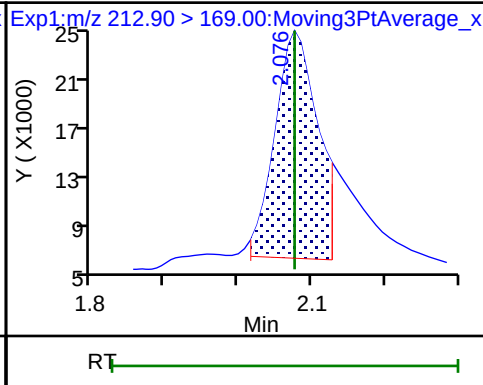
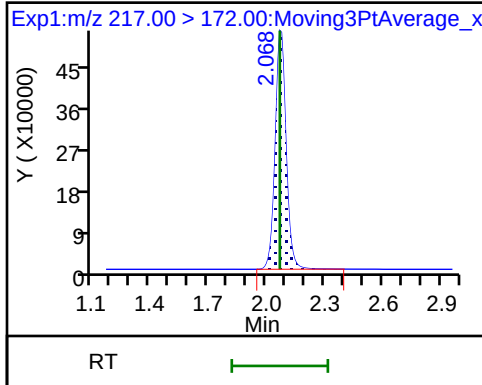
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

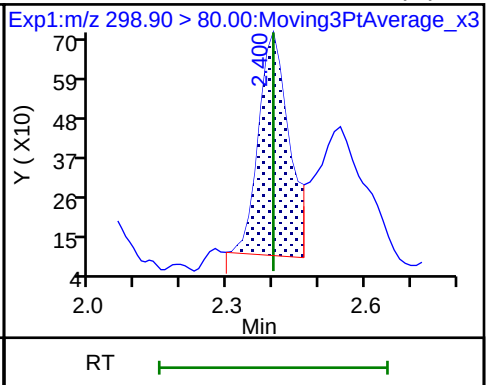
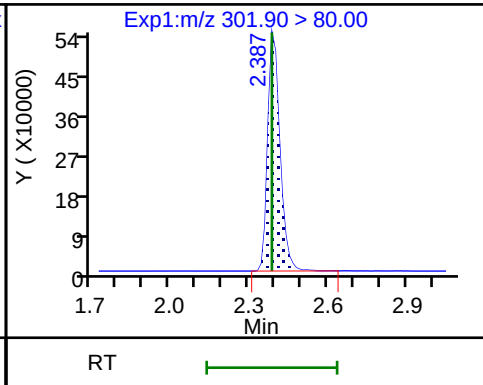
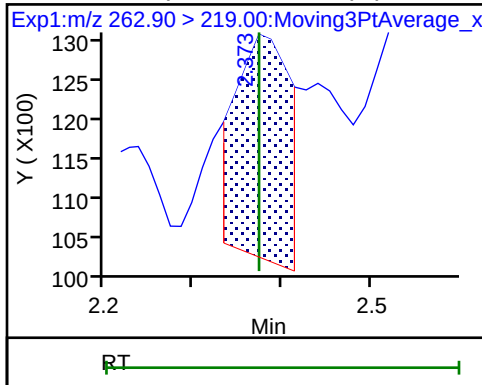
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

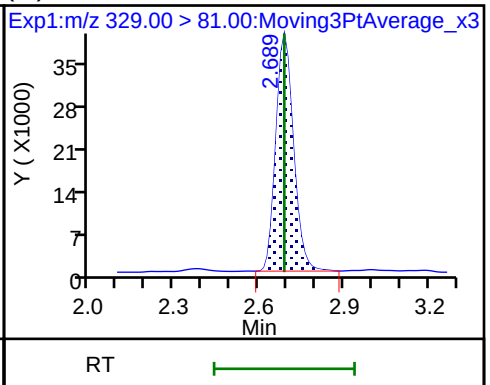
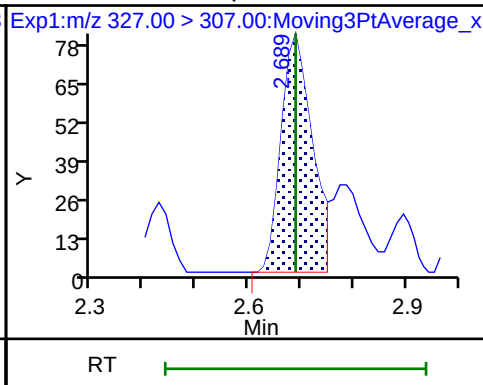
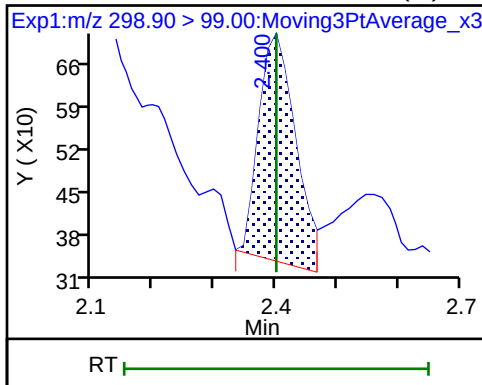
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

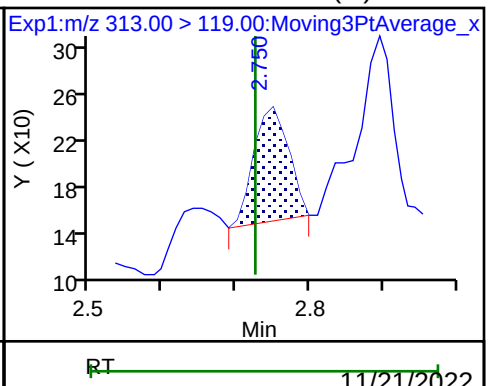
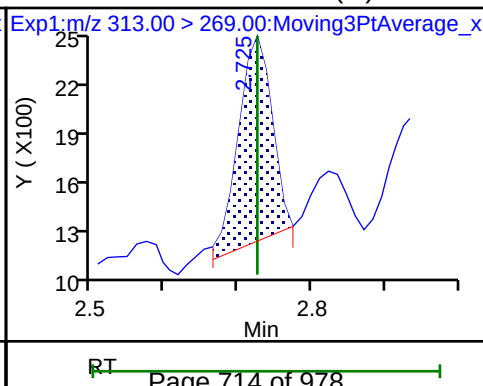
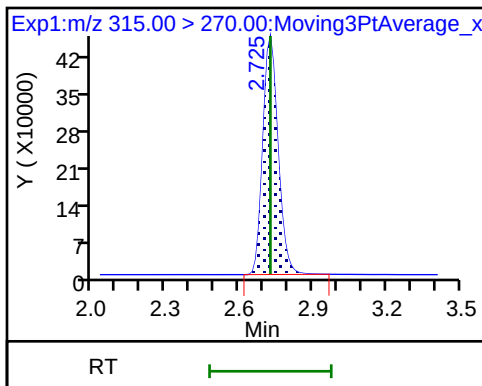
61 1H,1H,2H,2H-perfluorohexanesulfo (M) 50 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

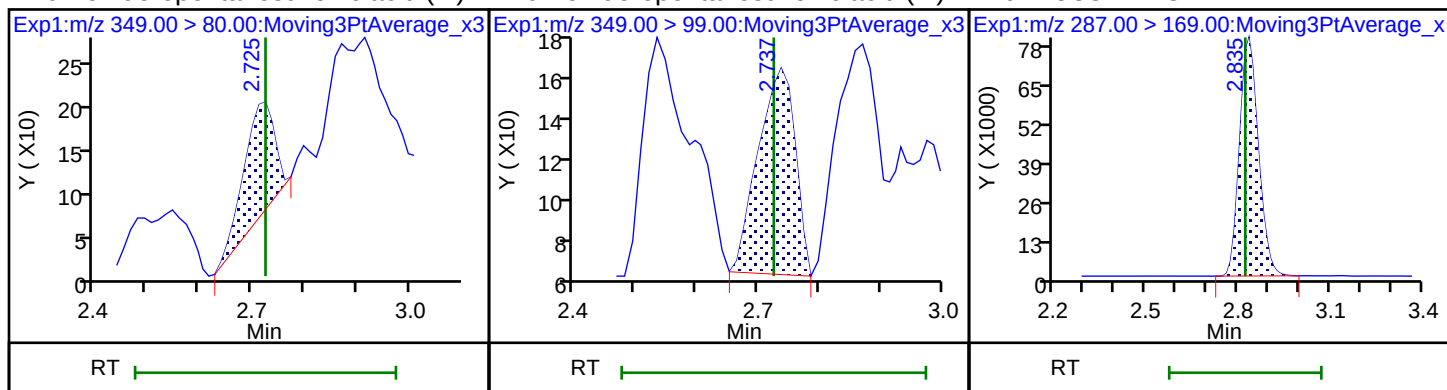
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

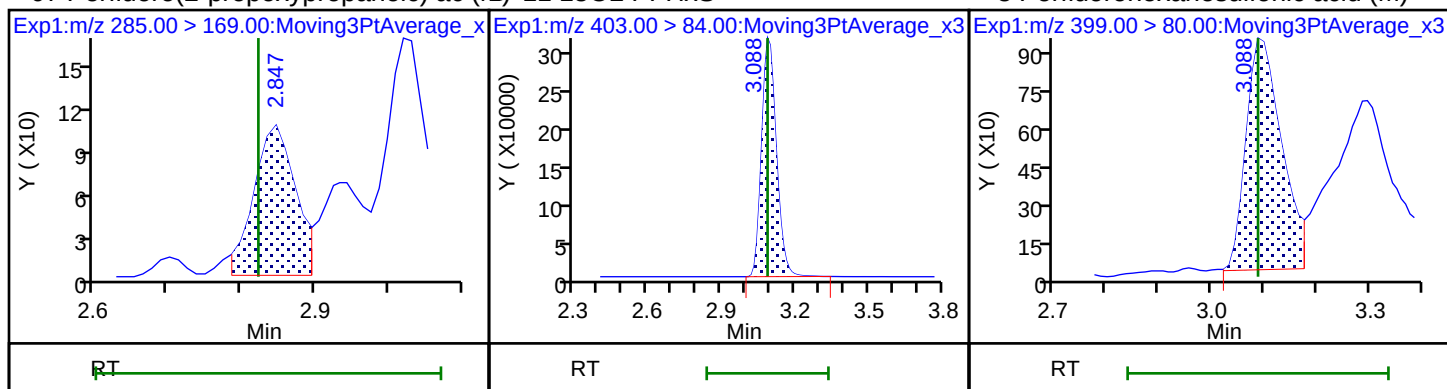
70 Perfluoropentanesulfonic acid (M)

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS

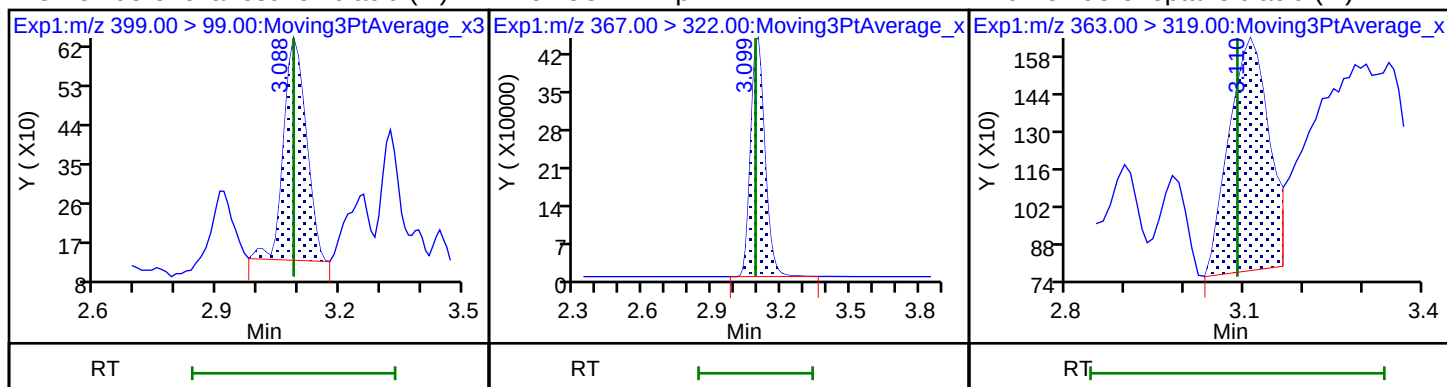
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

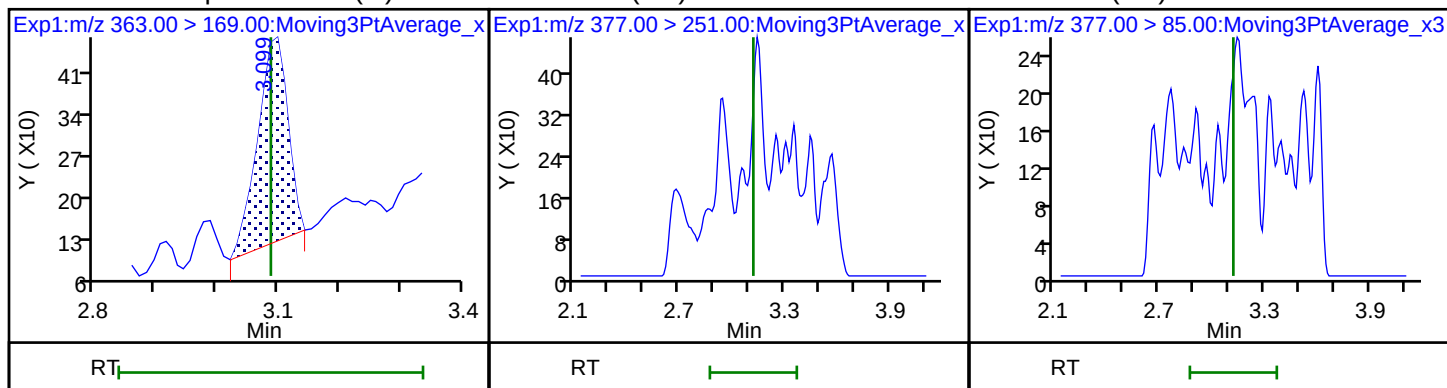
10 Perfluoroheptanoic acid (M)



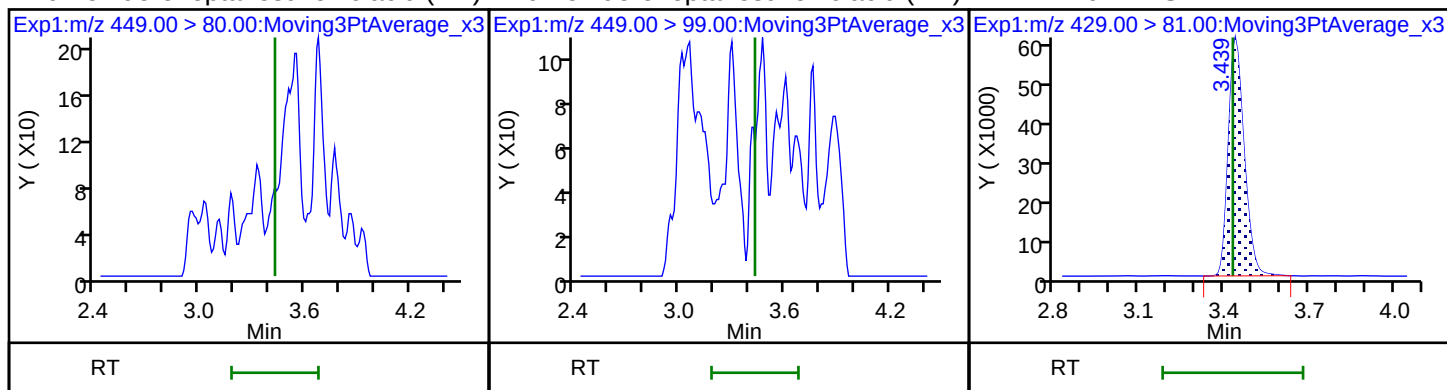
10 Perfluoroheptanoic acid (M)

77 DONA (ND)

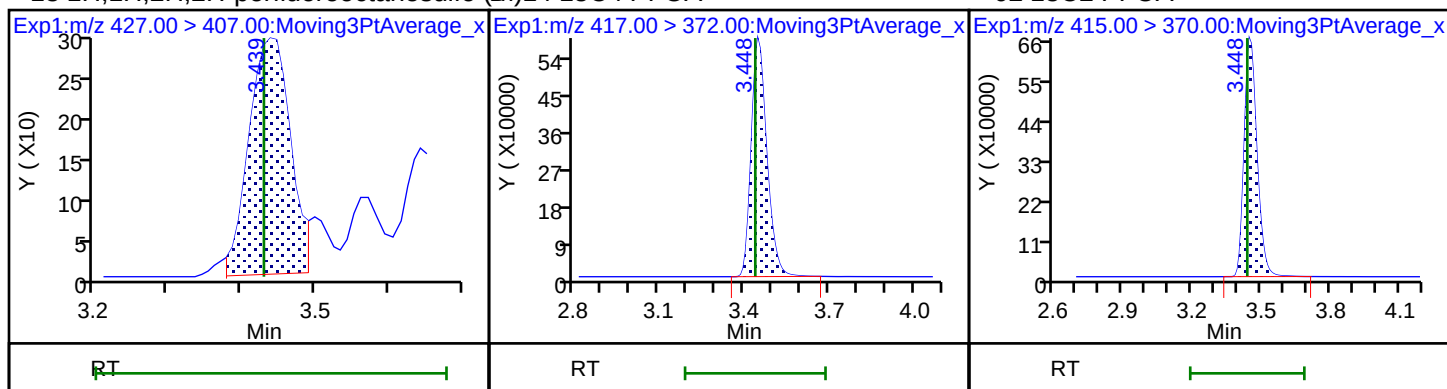
77 DONA (ND)



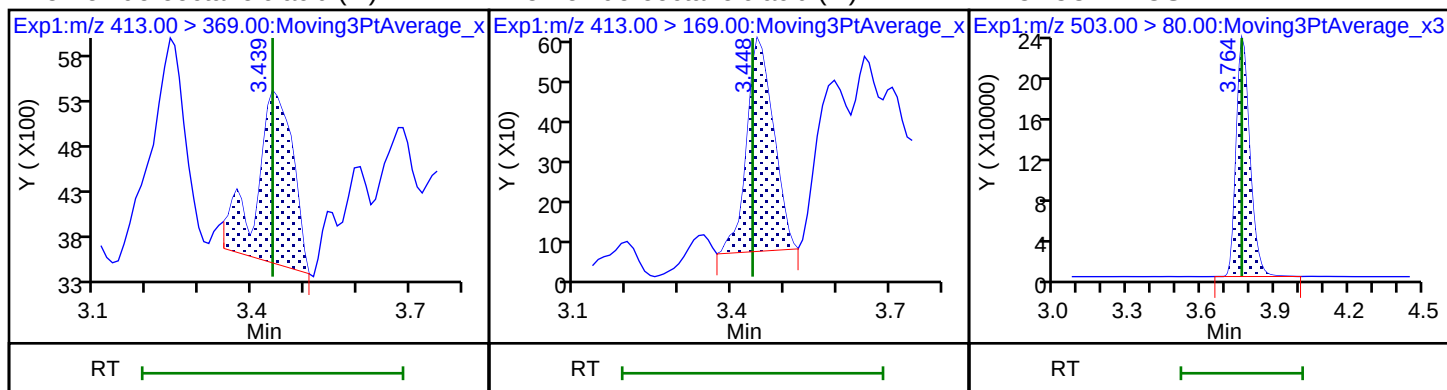
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) D 12 M2-6:2 FTS



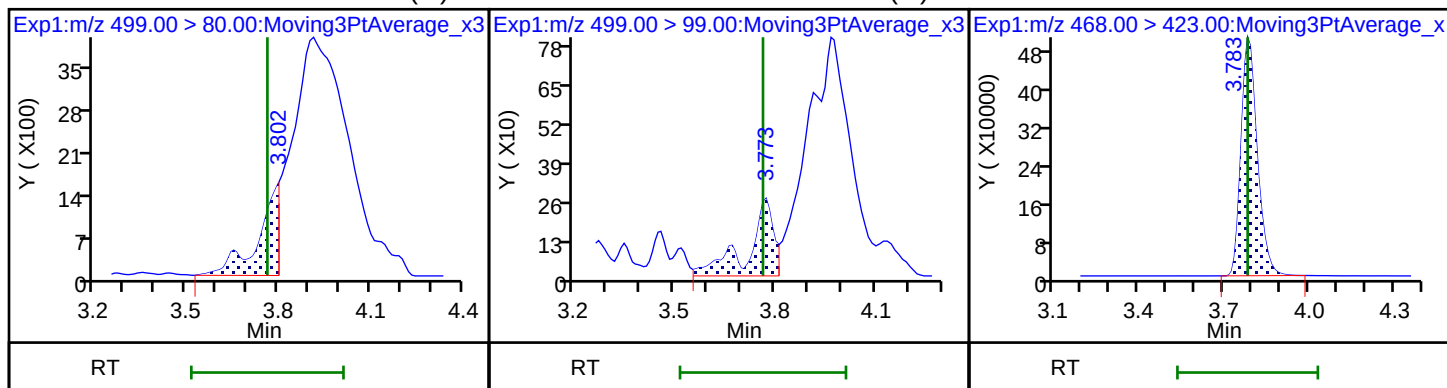
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA * 62 13C2 PFOA

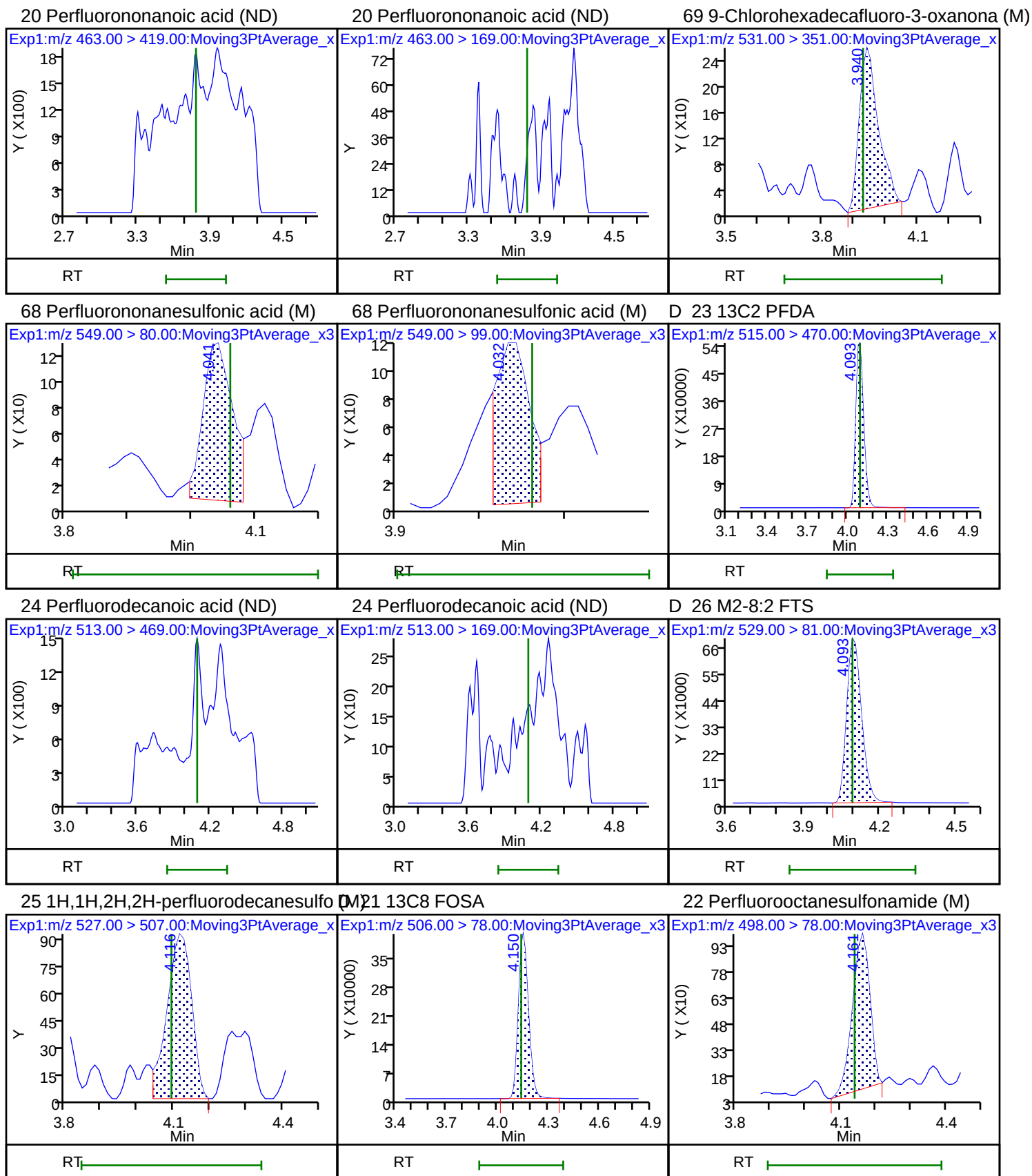


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA

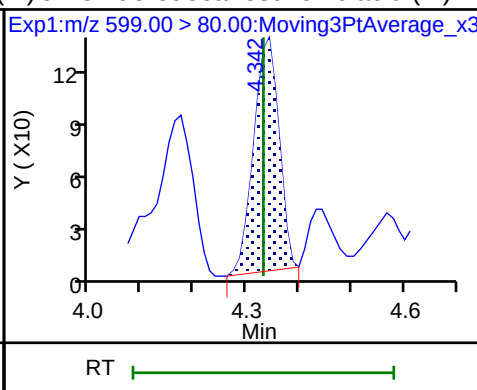
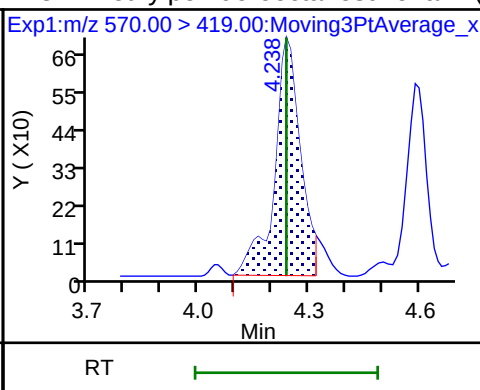
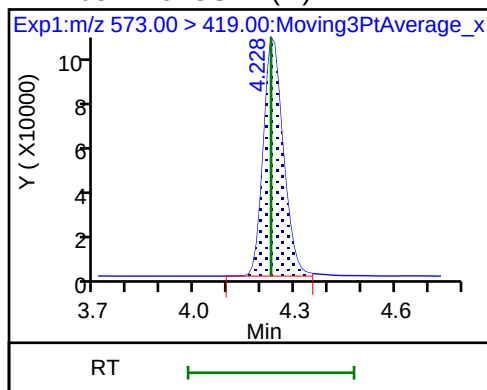




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

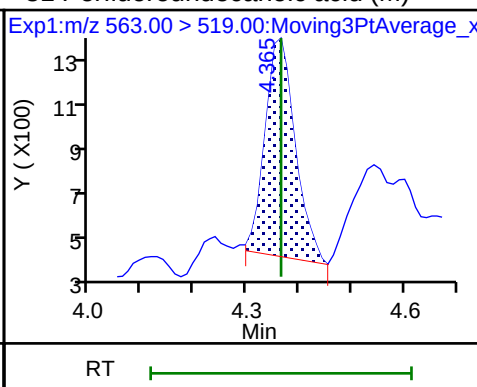
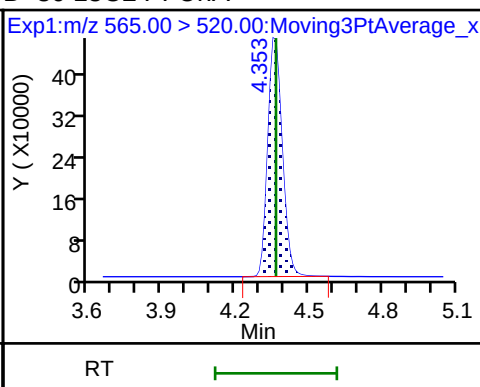
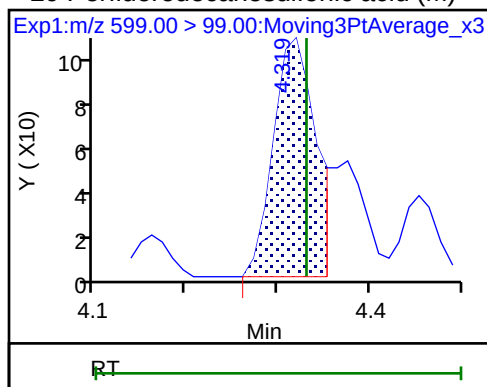
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

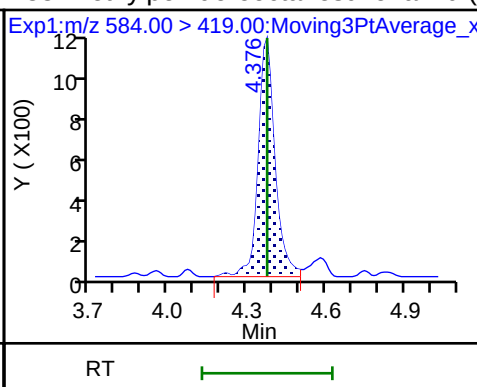
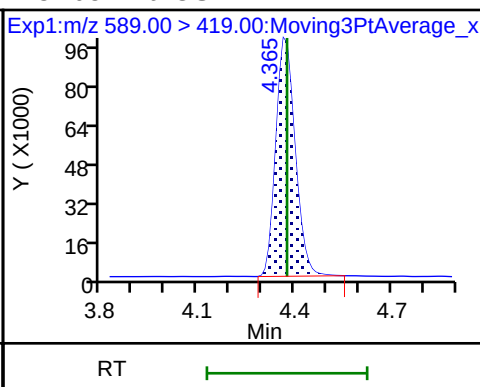
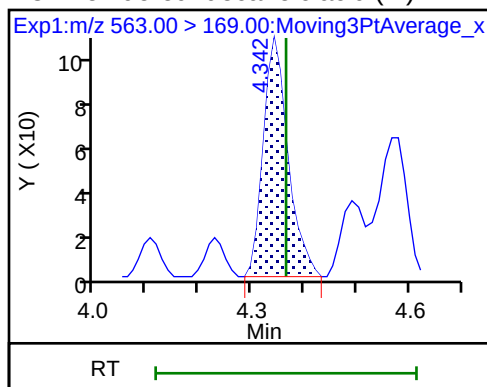
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

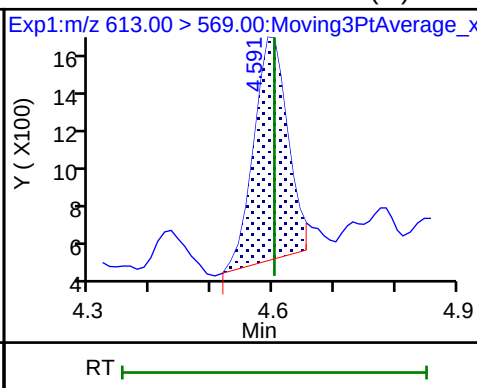
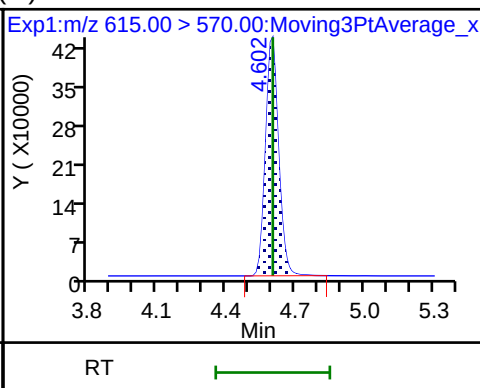
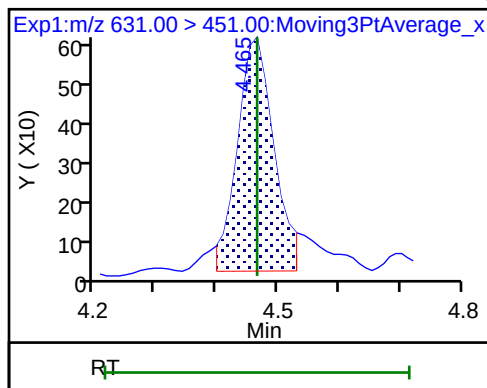
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

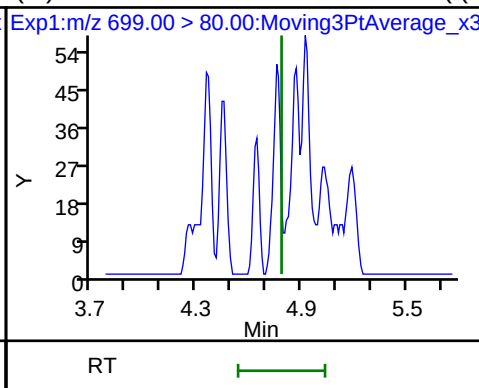
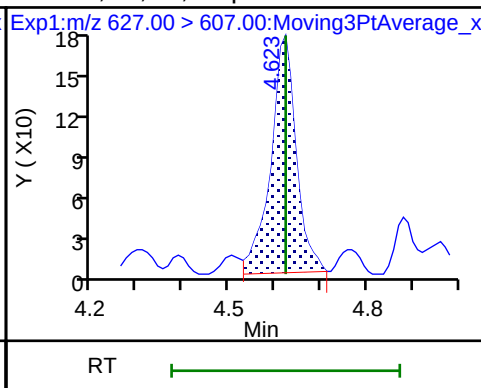
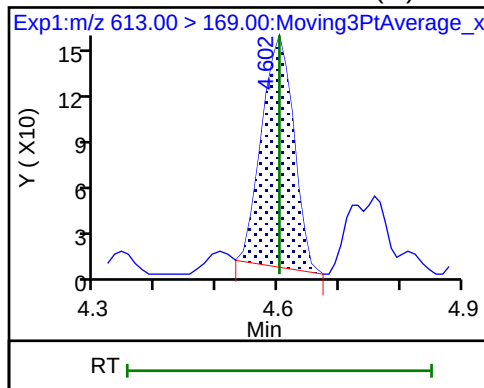
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid (M)

74 1H,1H,2H,2H-perfluorododecanesul (M)

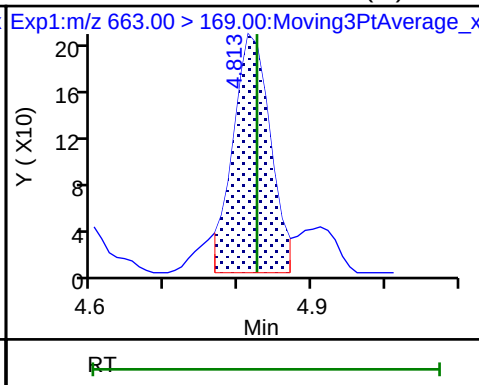
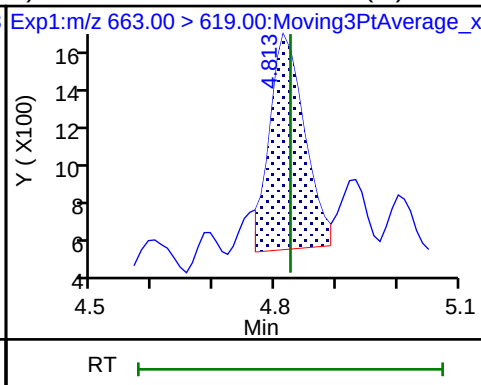
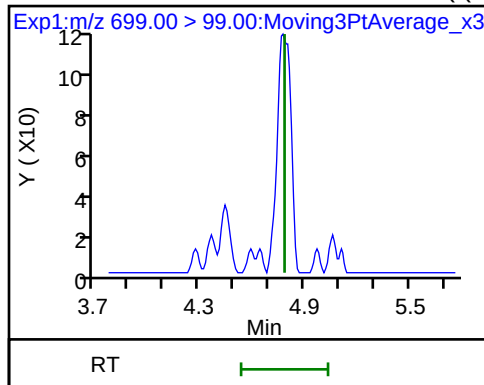
75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND)

41 Perfluorotridecanoic acid (M)

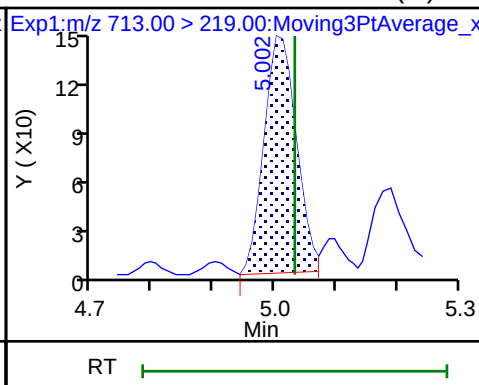
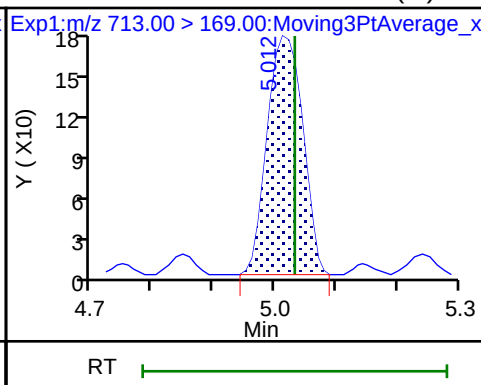
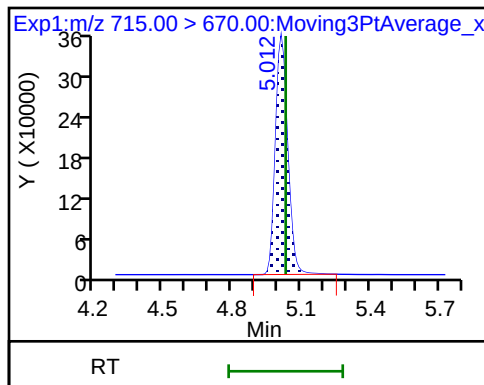
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

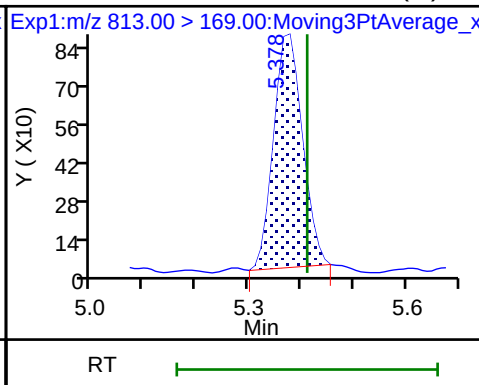
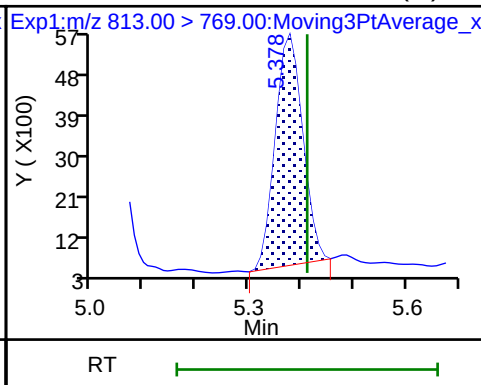
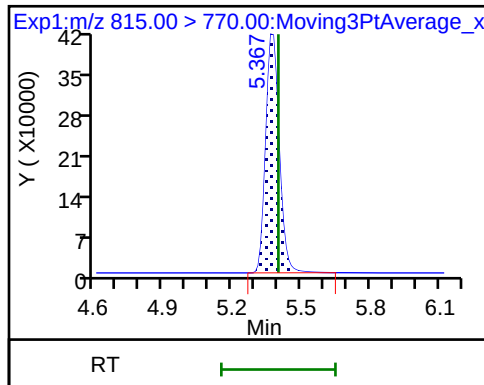
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)

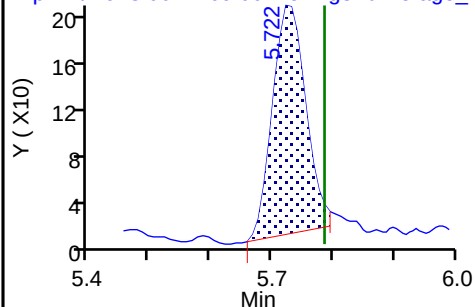
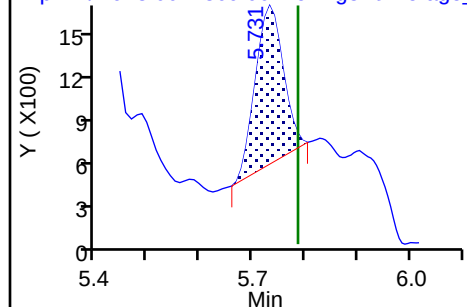


46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x

Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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)

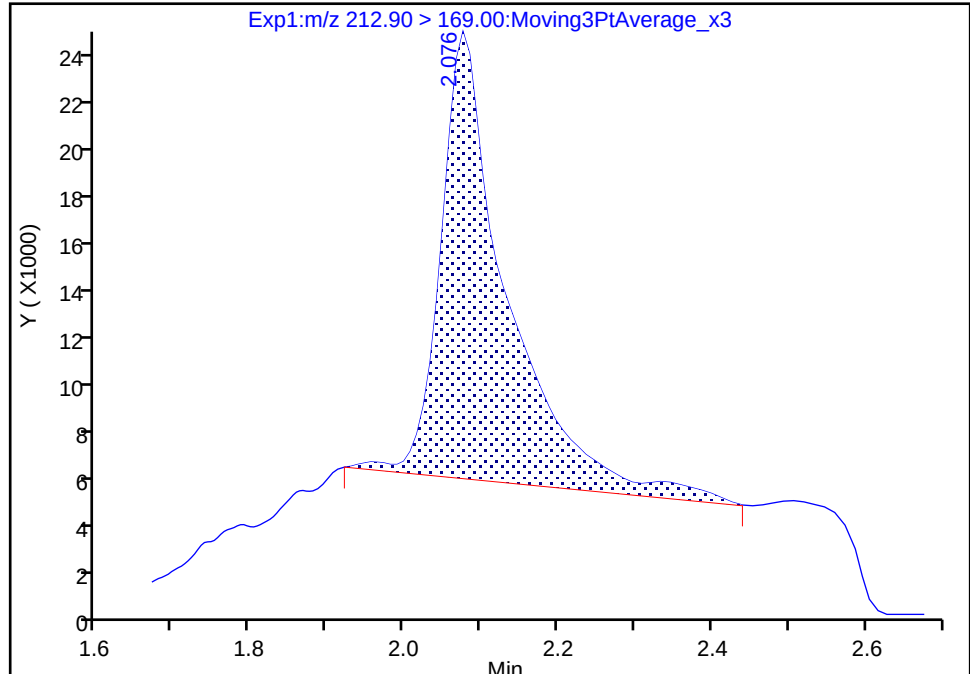
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

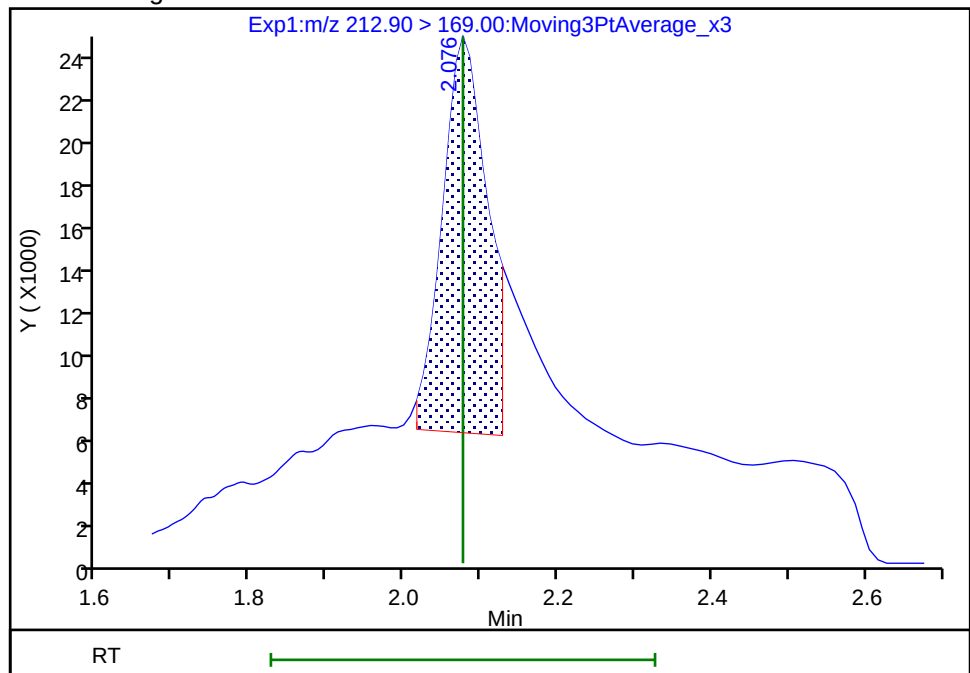
RT: 2.08
Area: 111630
Amount: 0.068685
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 72649
Amount: 0.044700
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:40:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

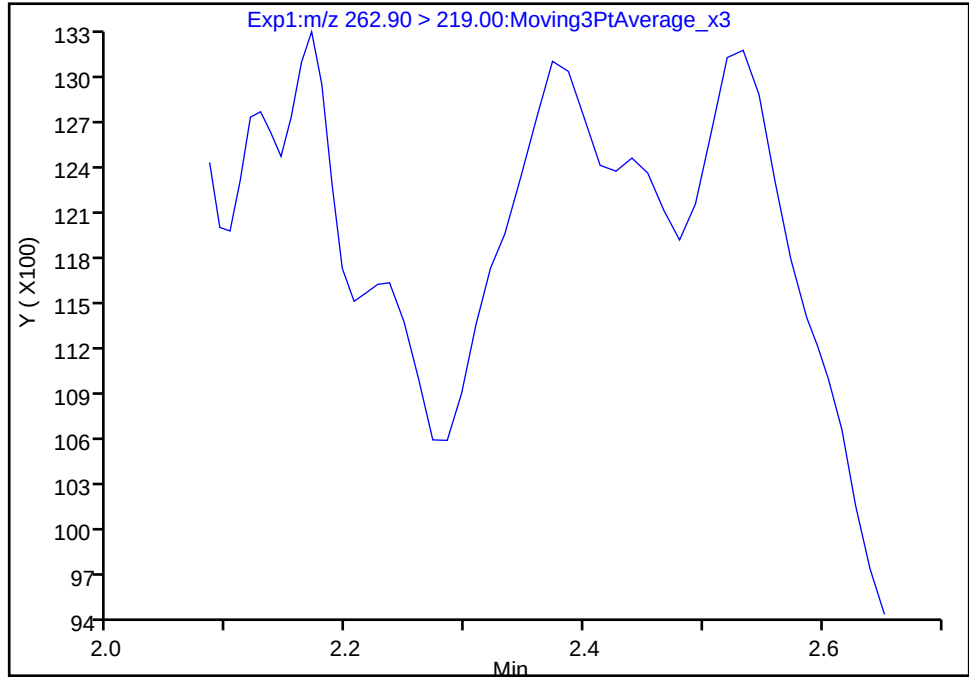
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

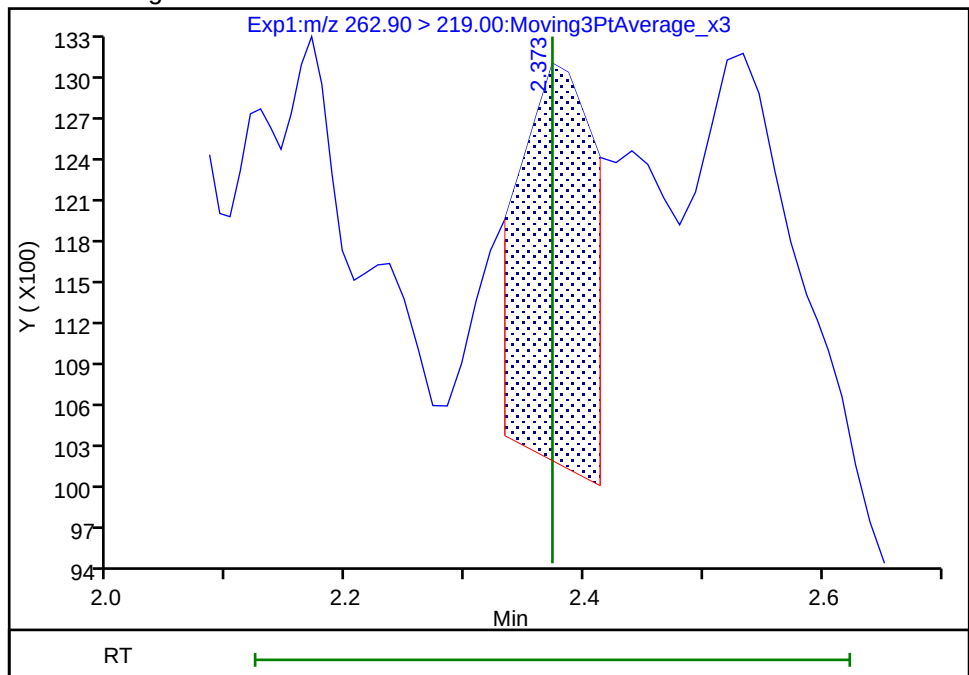
Signal: 1

Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results



RT: 2.37
Area: 11648
Amount: 0.007908
Amount Units: ng/ml

Reviewer: SJ4N, 17-Nov-2022 17:56:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 722 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

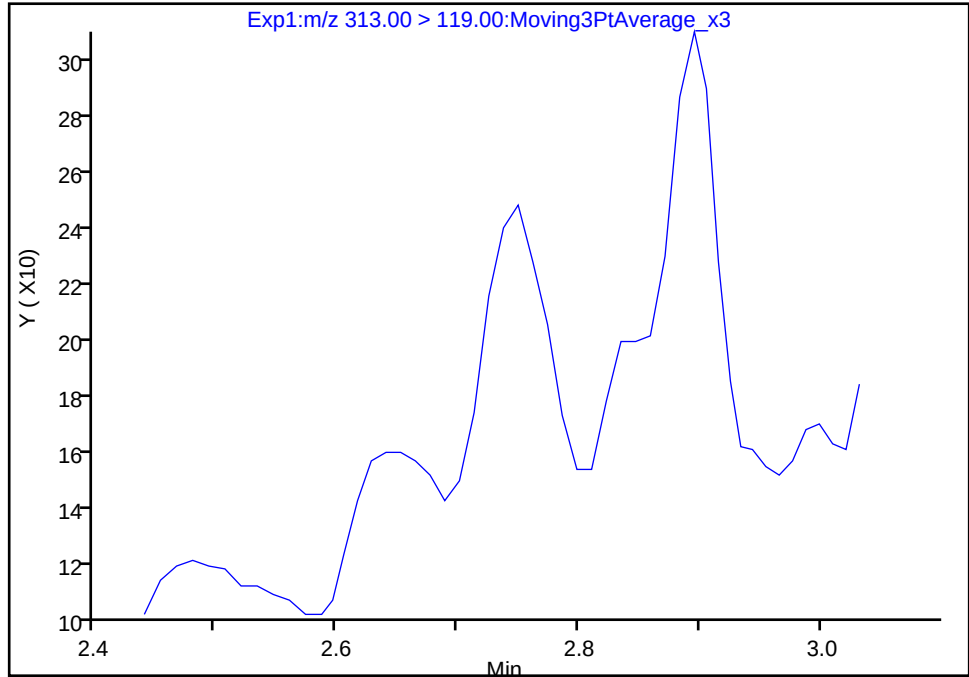
6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

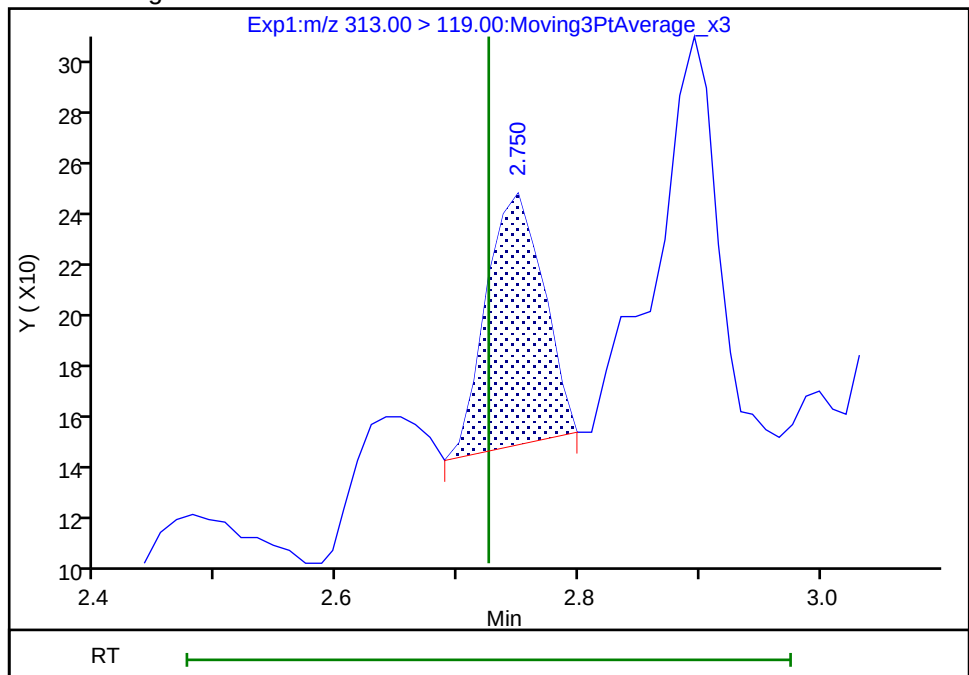
Not Detected

Expected RT: 2.73

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:41:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

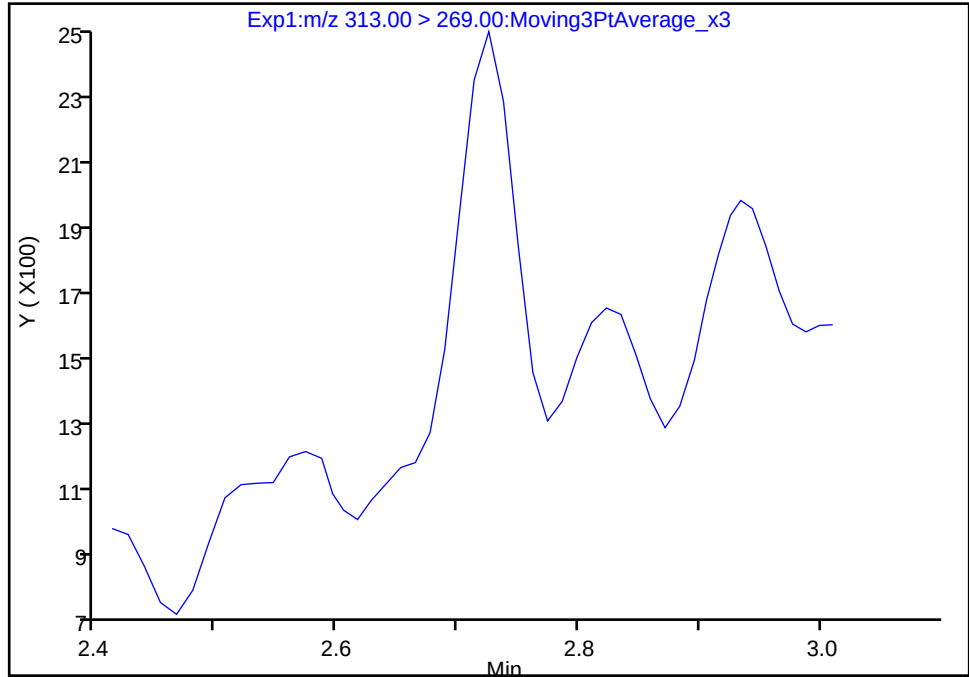
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

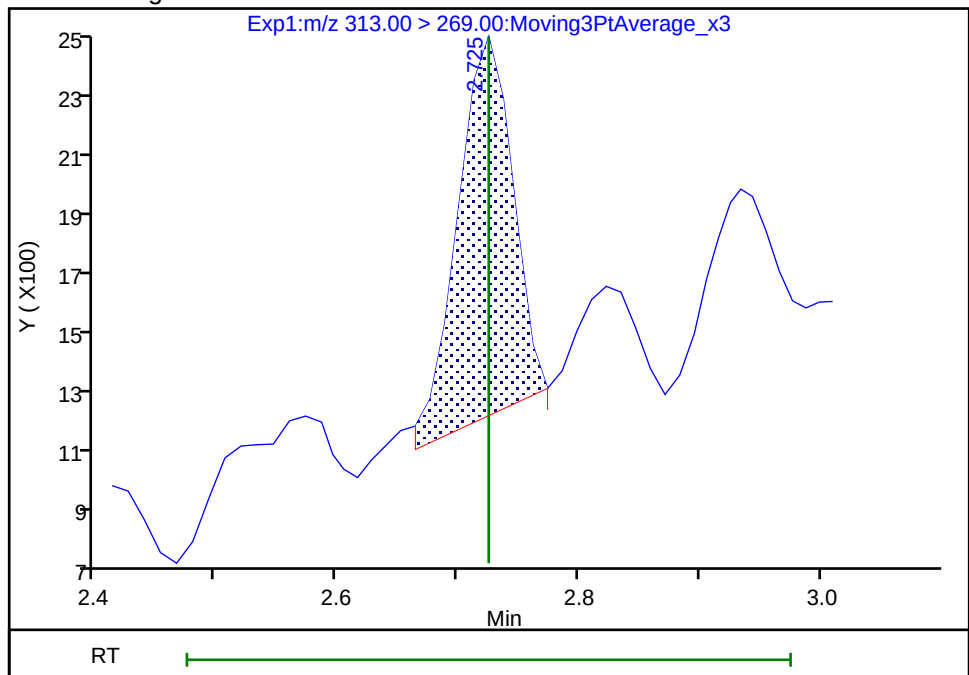
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 3739
Amount: 0.002186
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:41:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 724 of 978

11/21/2022
4:10 PM

Eurofins Burlington

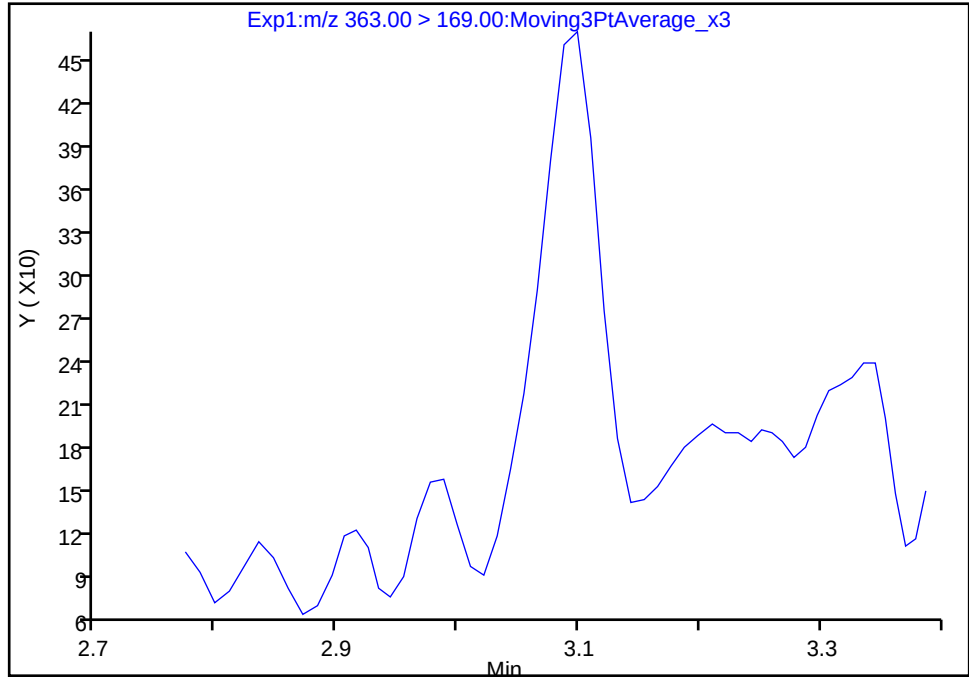
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

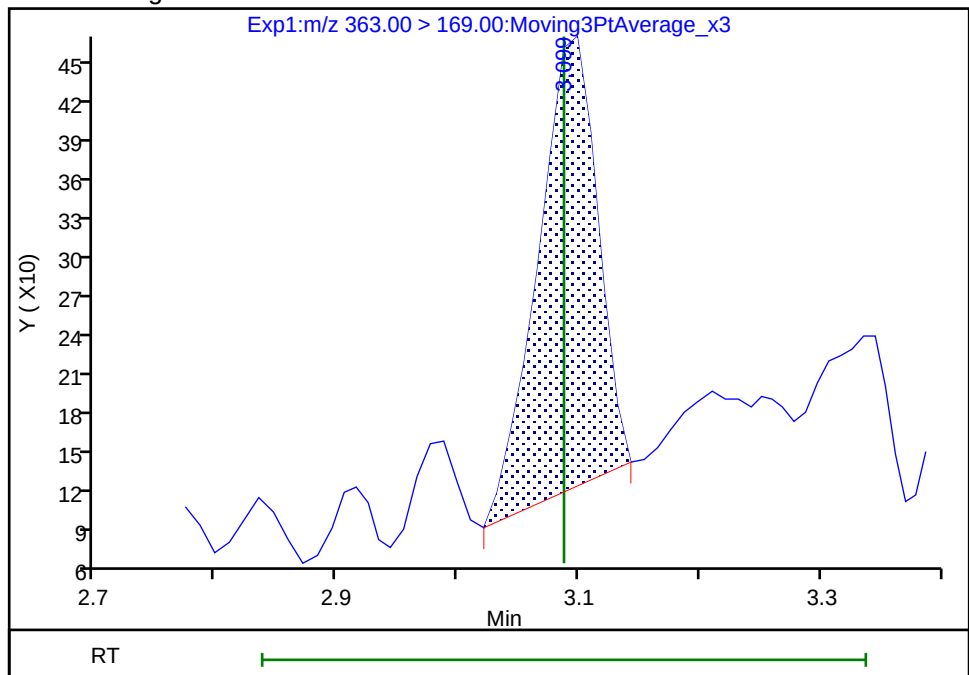
Not Detected
Expected RT: 3.09

Processing Integration Results



RT: 3.10
Area: 1177
Amount: 0.002424
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:42:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

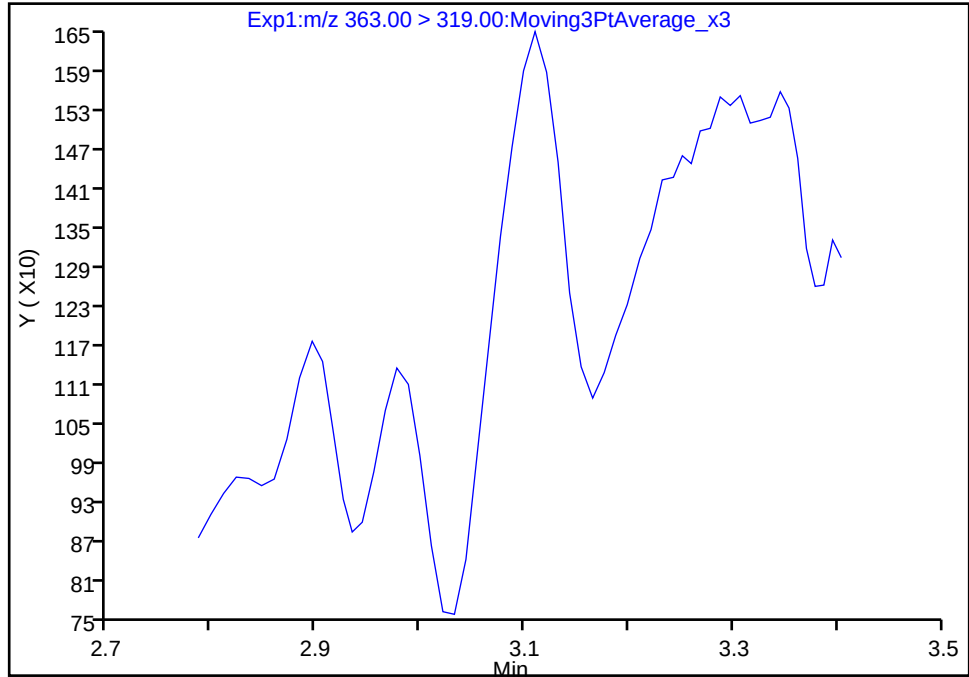
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

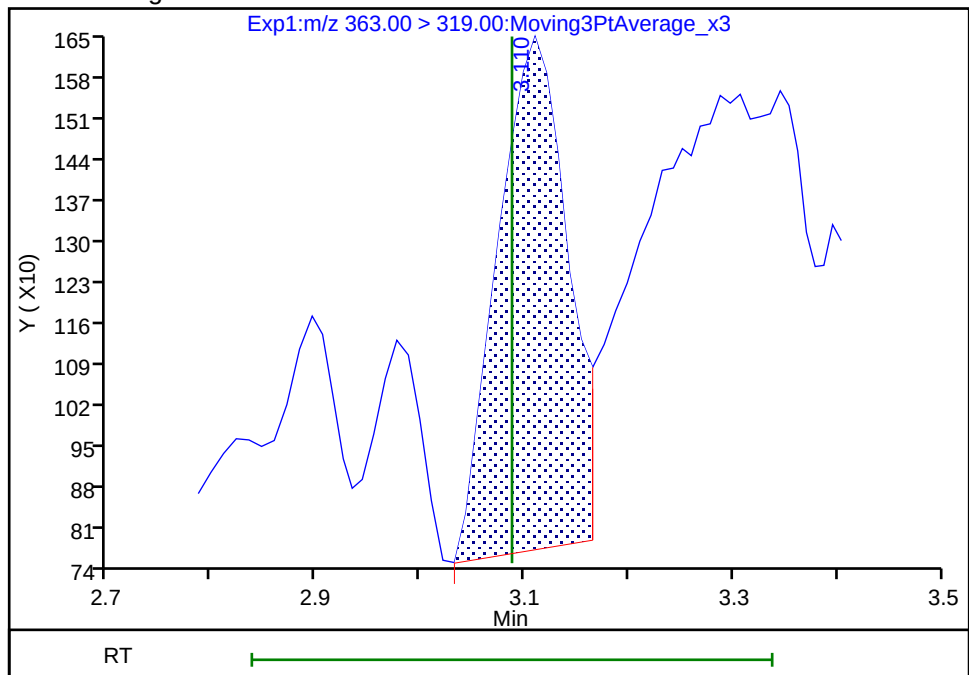
Signal: 1

Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results



RT: 3.11
Area: 4052
Amount: 0.002424
Amount Units: ng/ml

Reviewer: SJ4N, 17-Nov-2022 17:56:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 726 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

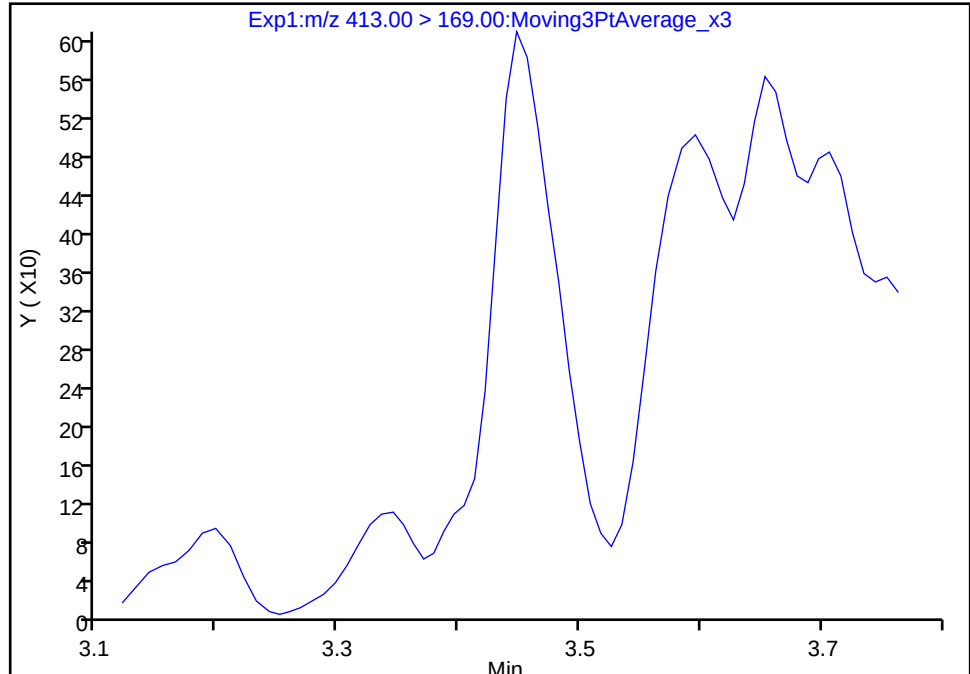
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

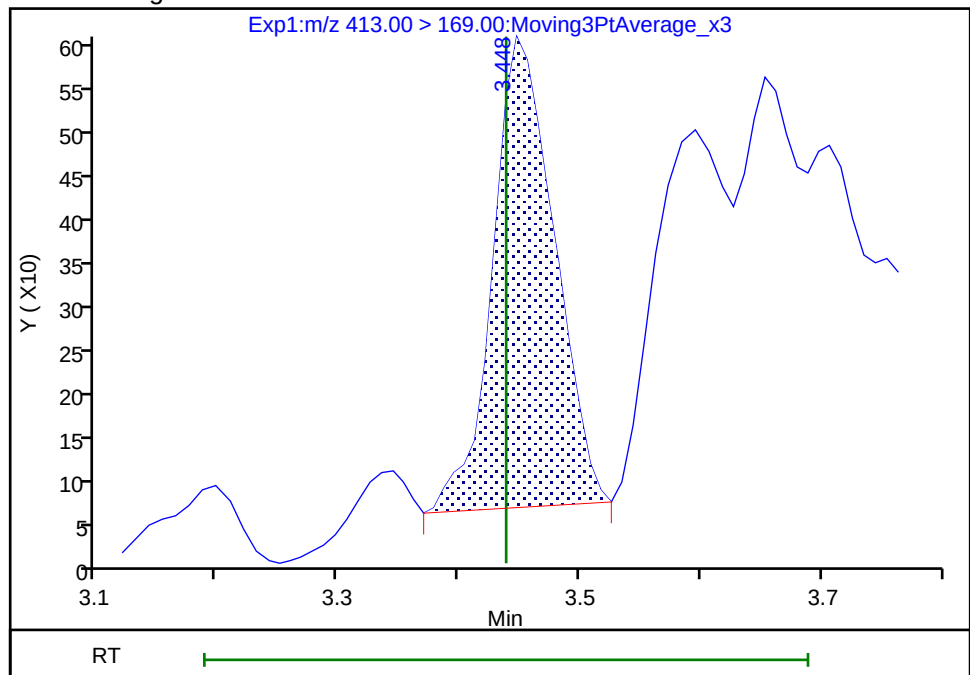
Not Detected

Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.45

Area: 1926

Amount: 0.004473

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:42:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

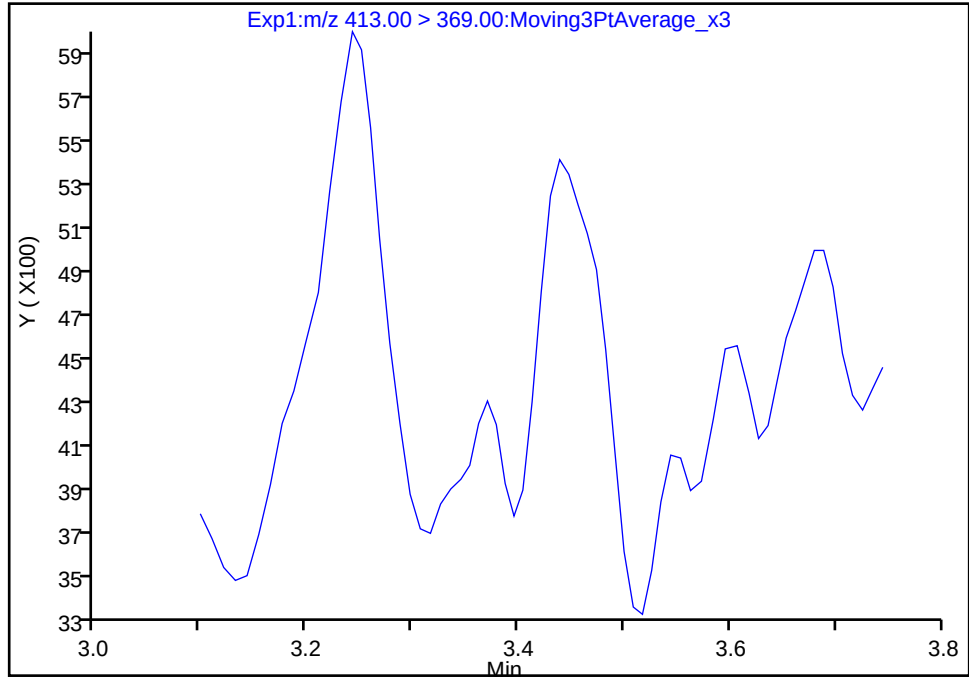
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

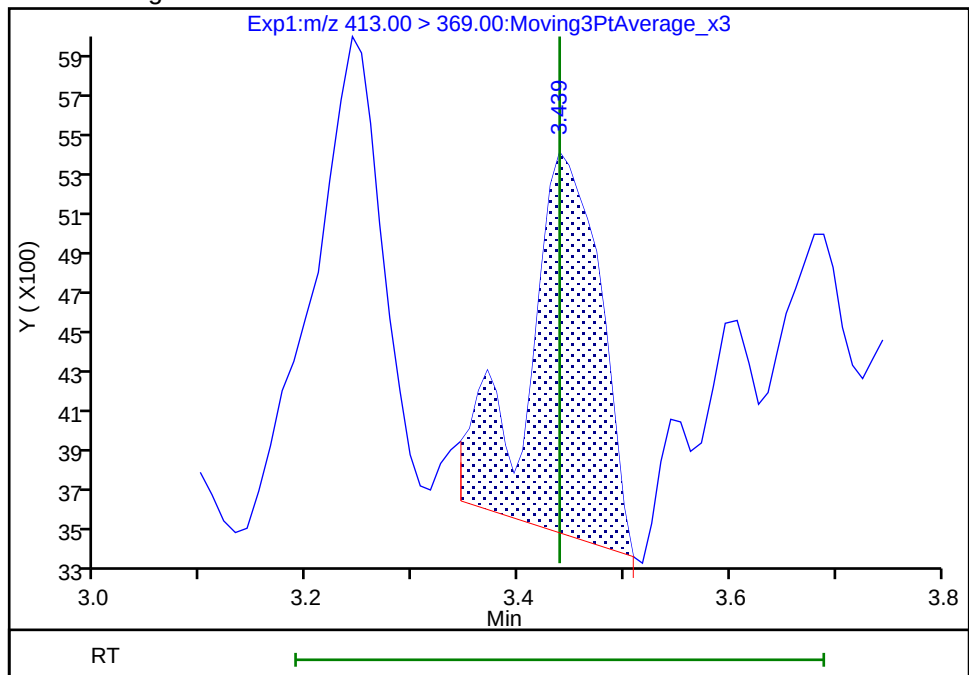
Not Detected

Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.44

Area: 8931

Amount: 0.004473

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:42:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

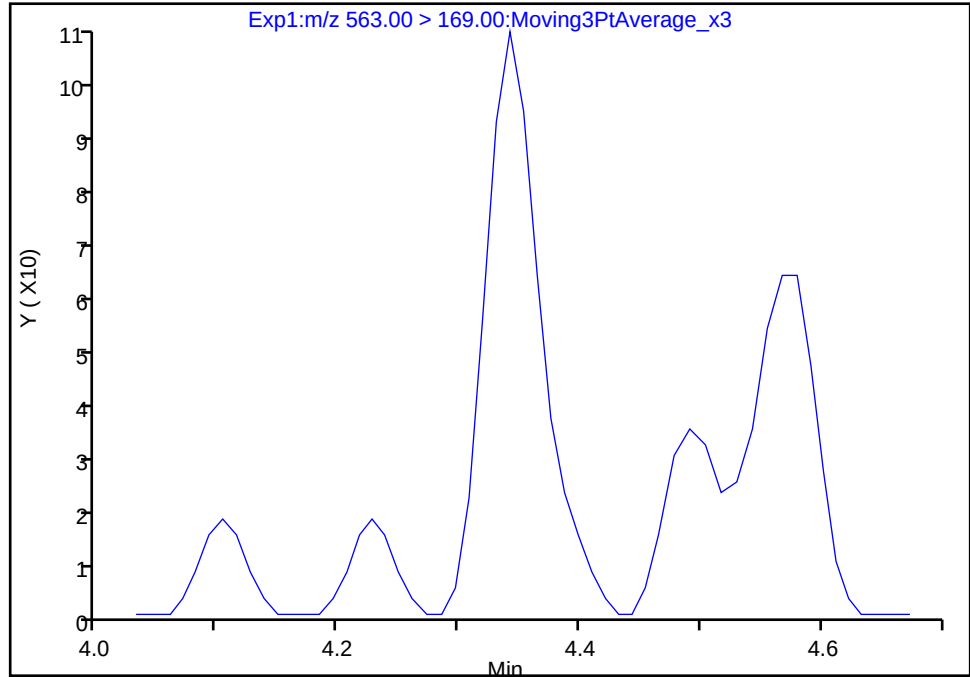
31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

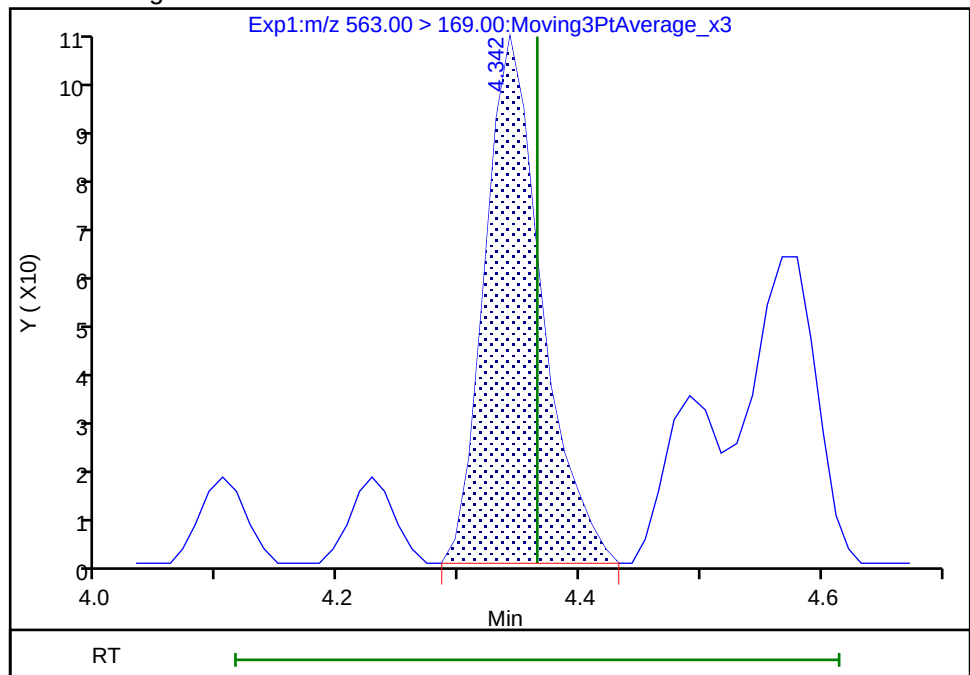
Not Detected

Expected RT: 4.36

Processing Integration Results



Manual Integration Results



RT: 4.34

Area: 359

Amount: 0.002379

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:46:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

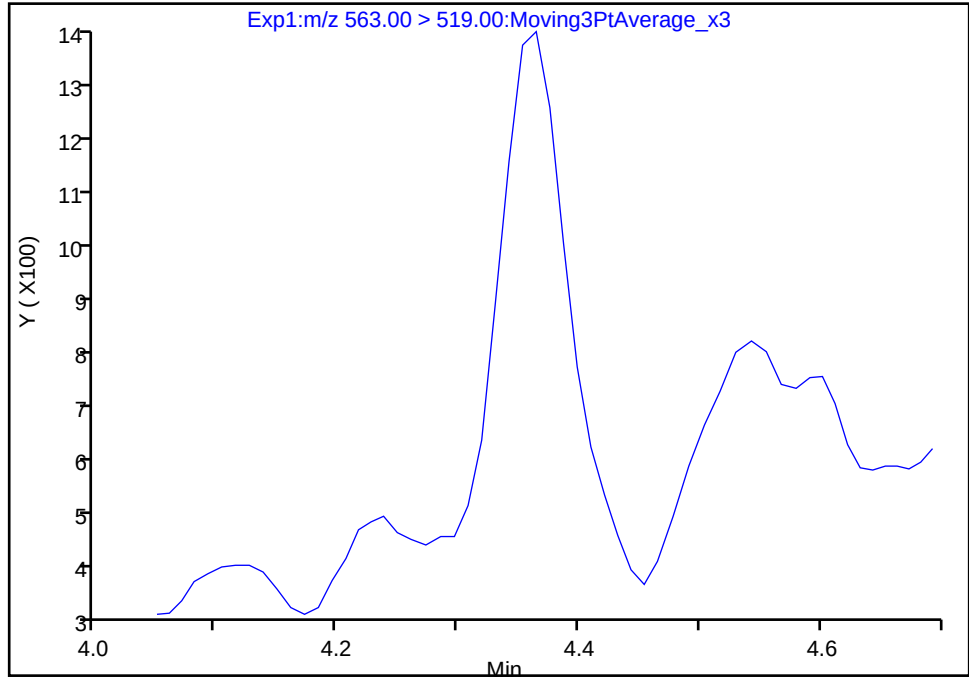
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

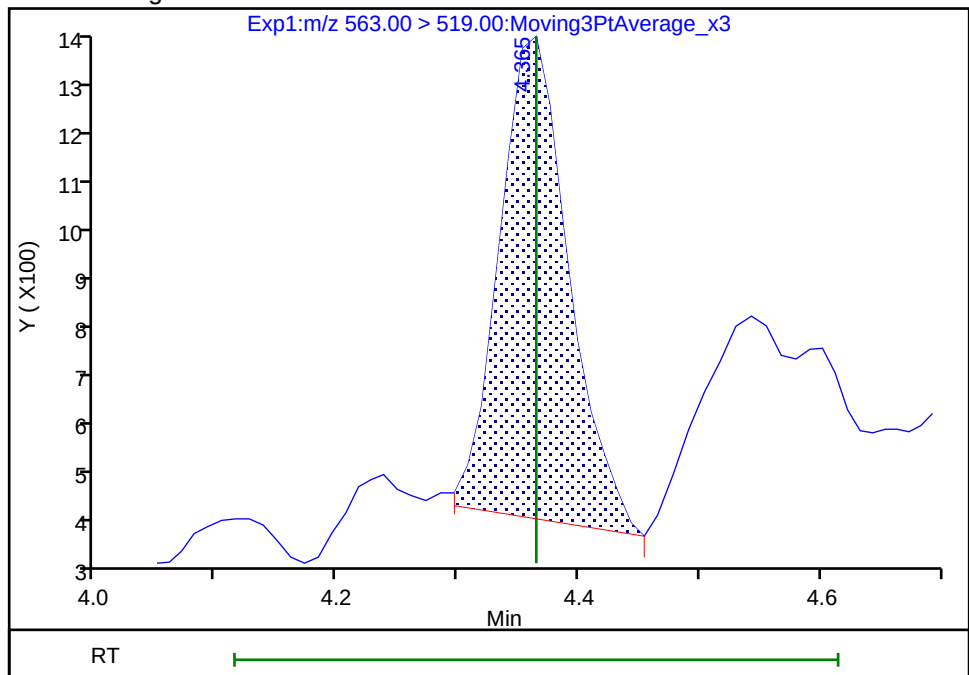
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 3767
Amount: 0.002379
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:46:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 730 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

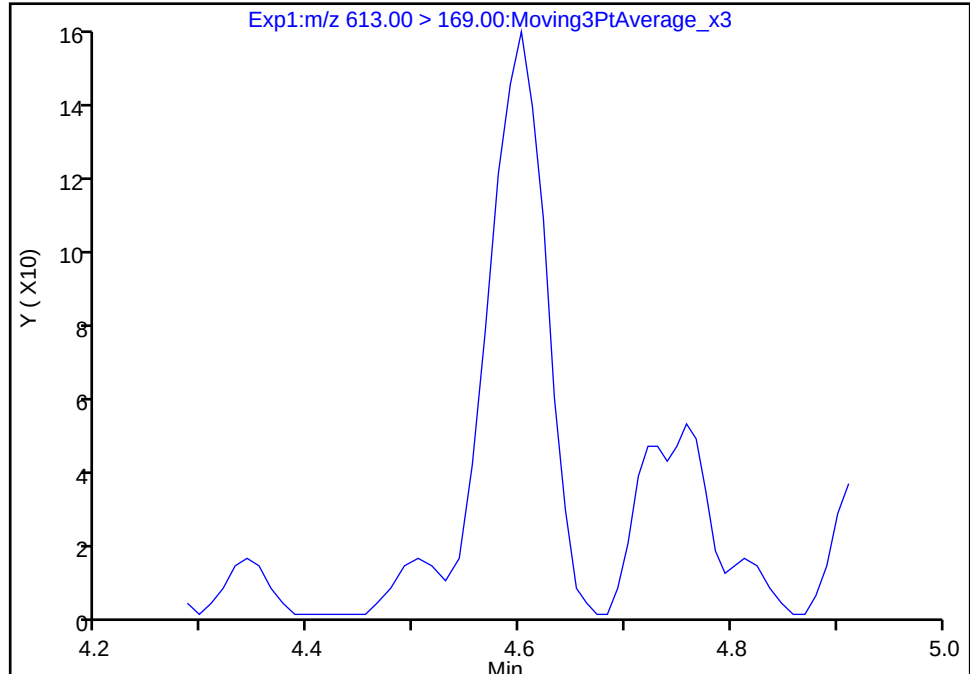
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

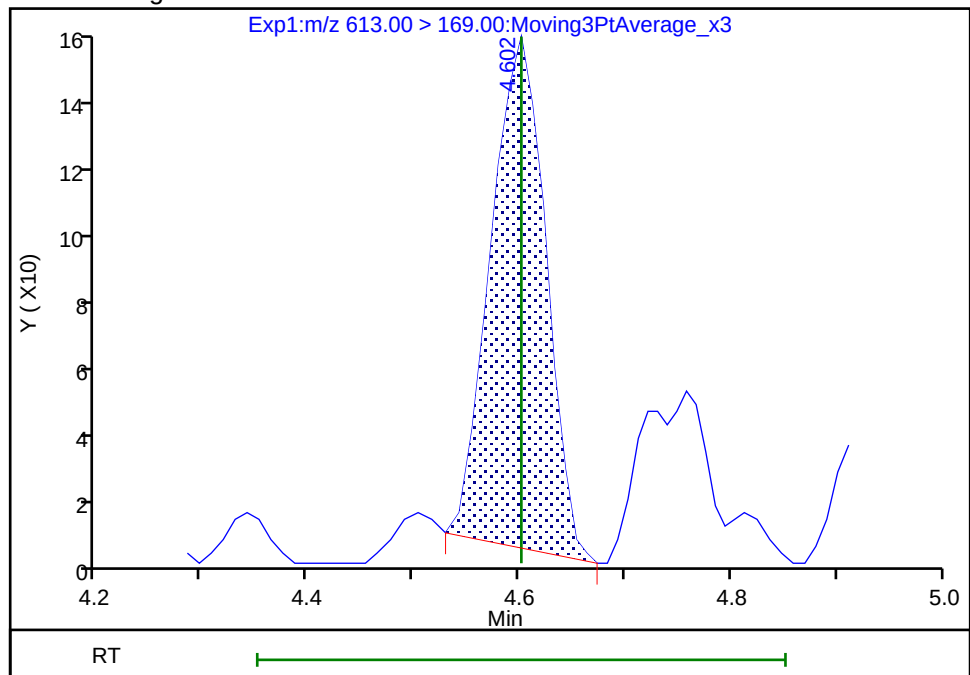
Not Detected

Expected RT: 4.60

Processing Integration Results



Manual Integration Results



RT: 4.60

Area: 547

Amount: 0.002993

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:47:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

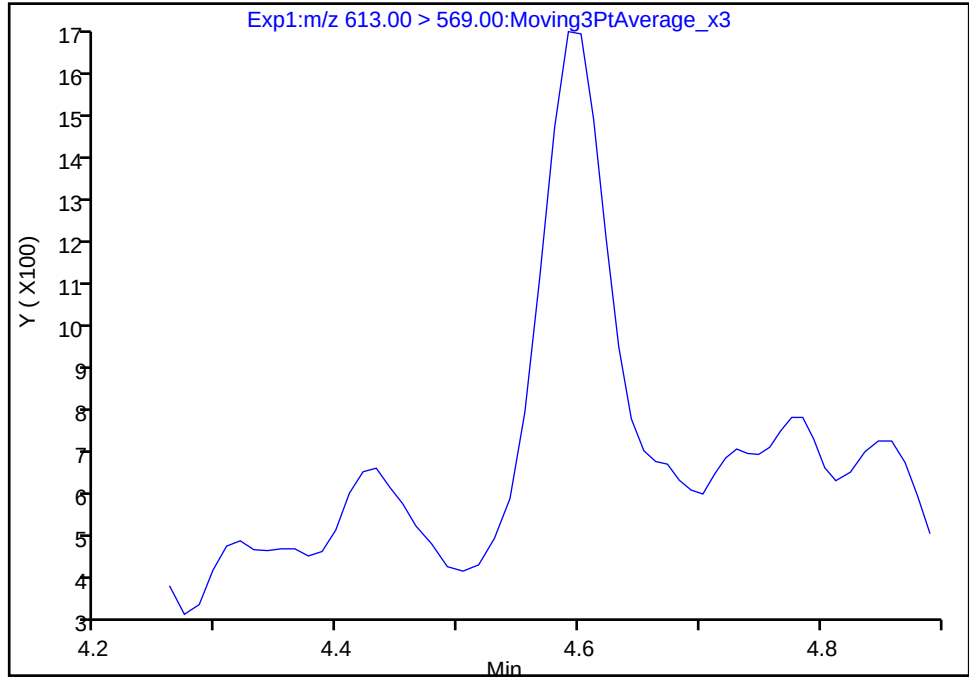
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

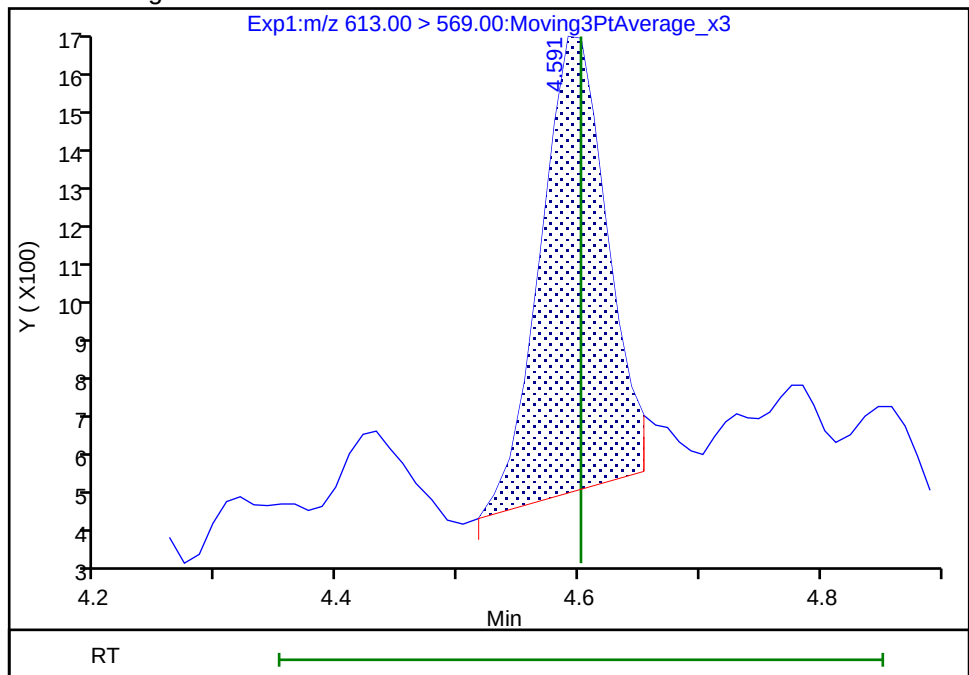
Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 4311
Amount: 0.002993
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:47:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 732 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

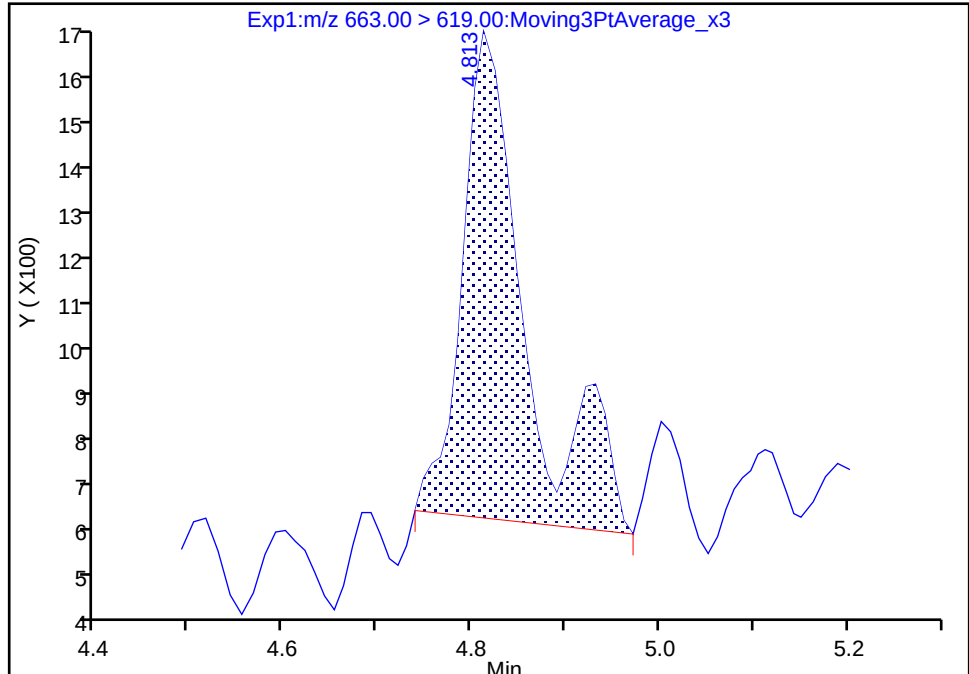
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

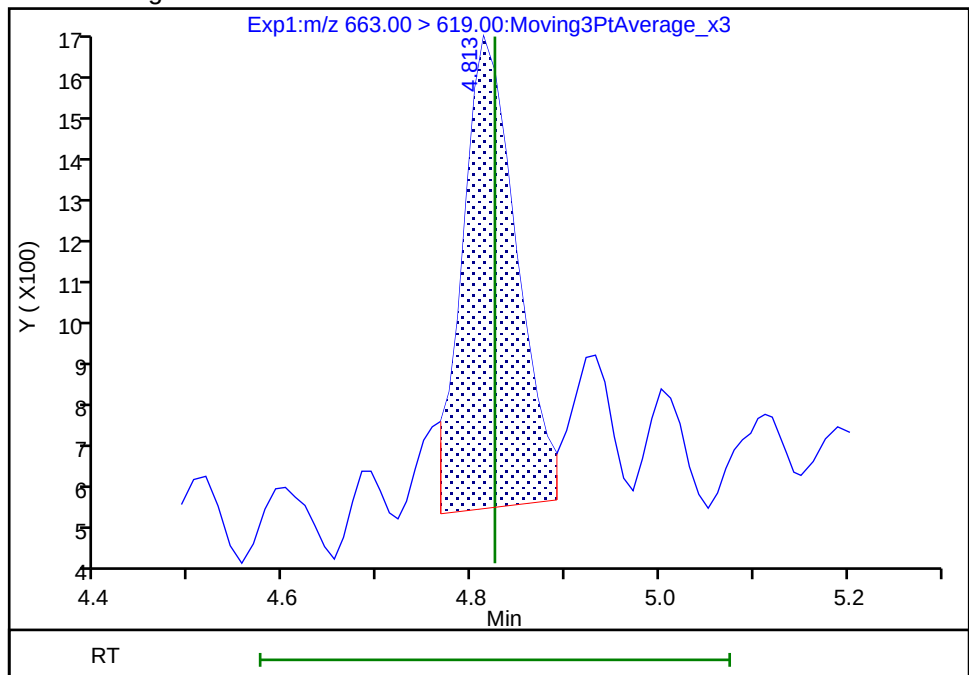
RT: 4.81
Area: 4459
Amount: 0.003378
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 4035
Amount: 0.003057
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:47:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

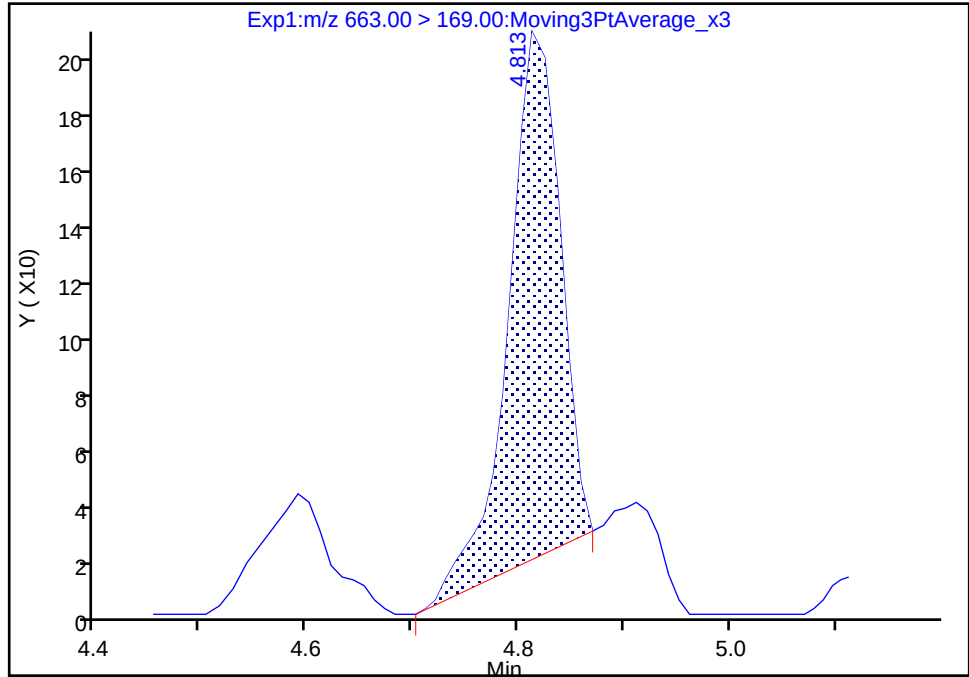
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

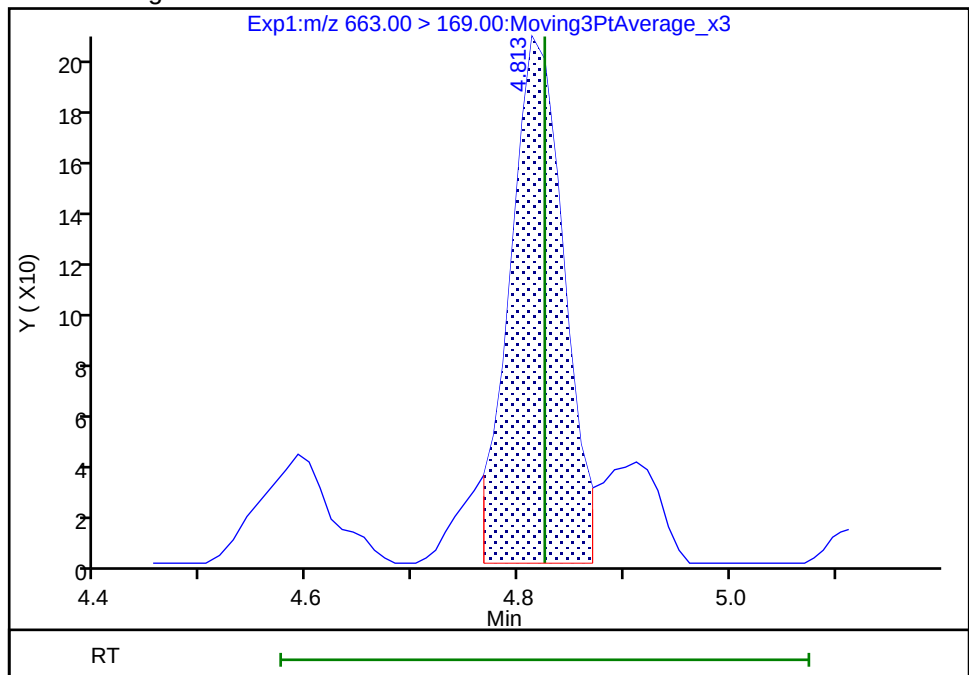
RT: 4.81
Area: 624
Amount: 0.003378
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 711
Amount: 0.003057
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:47:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 734 of 97811/21/2022
4:10 PM

Eurofins Burlington

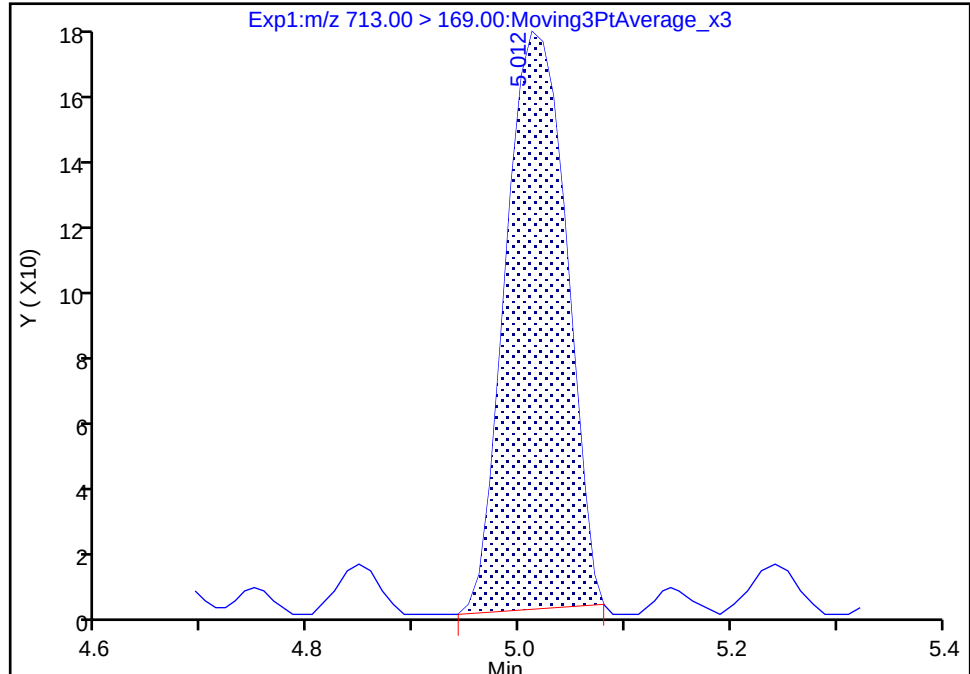
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

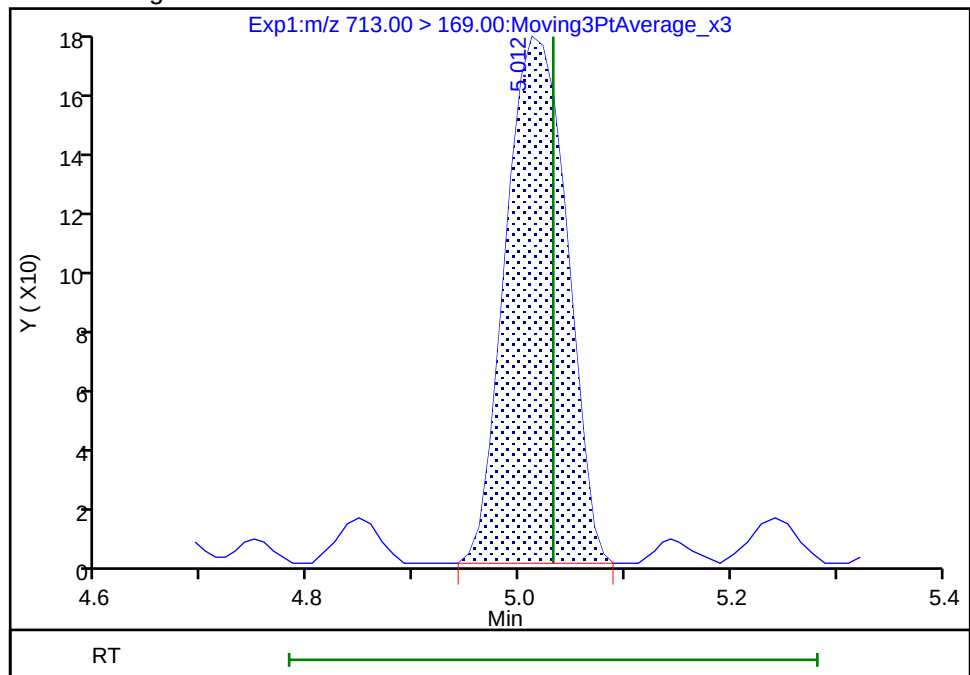
RT: 5.01
Area: 690
Amount: 0.004215
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 703
Amount: 0.004294
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:48:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

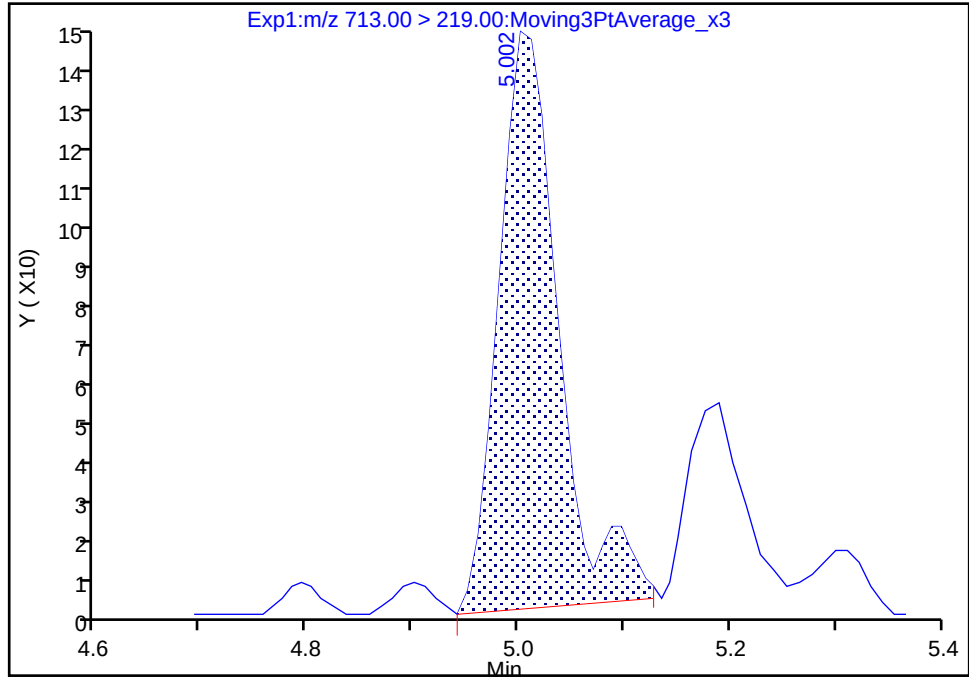
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

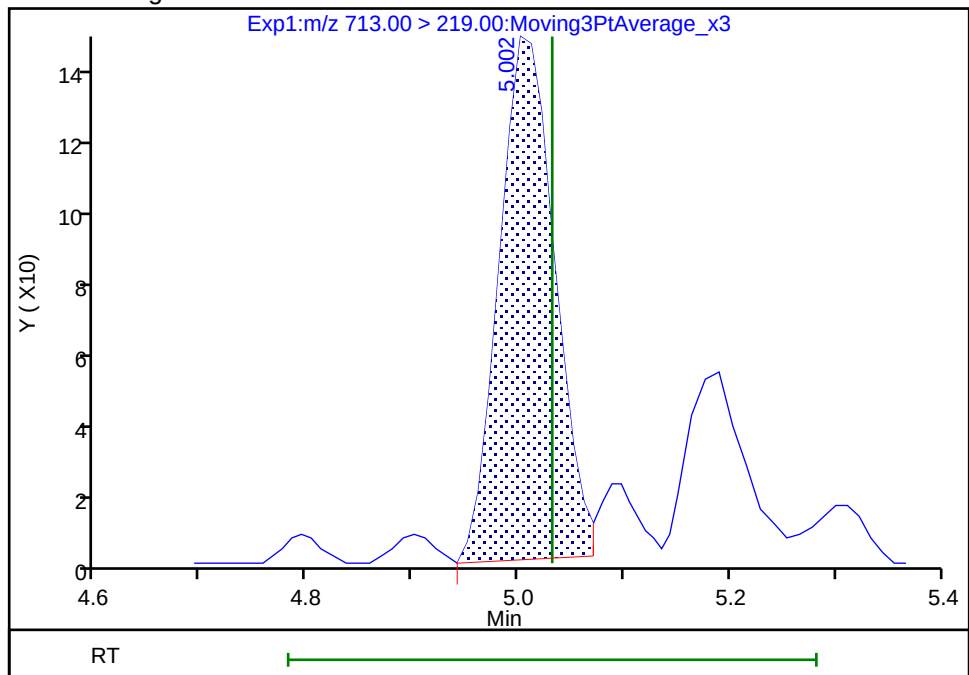
RT: 5.00
Area: 569
Amount: 0.004215
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 530
Amount: 0.004294
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:48:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 736 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

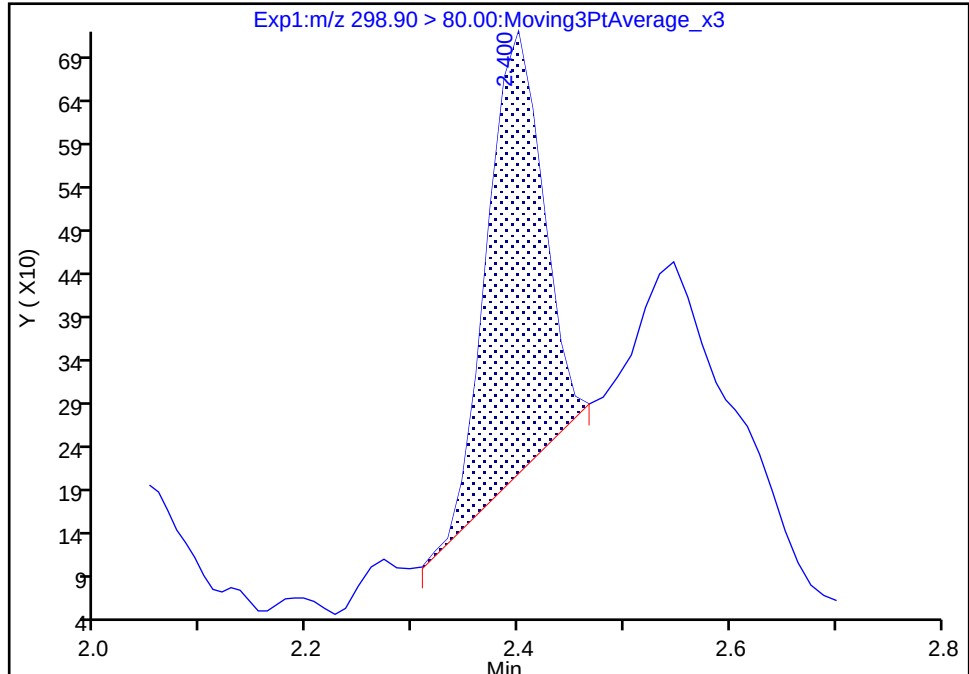
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

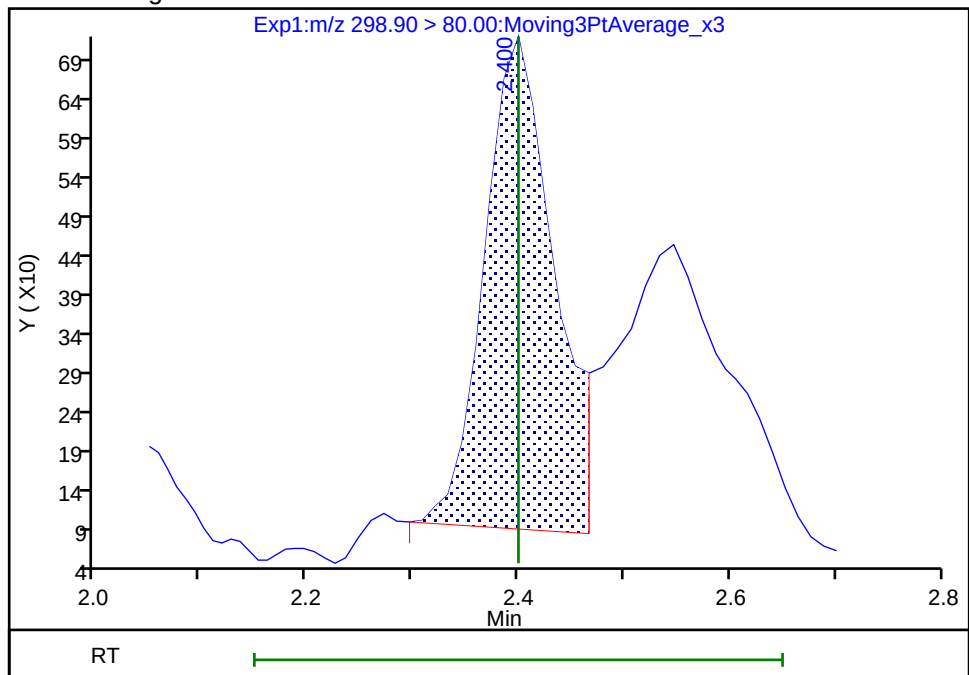
RT: 2.40
Area: 1882
Amount: 0.001097
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 2864
Amount: 0.001669
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:55:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

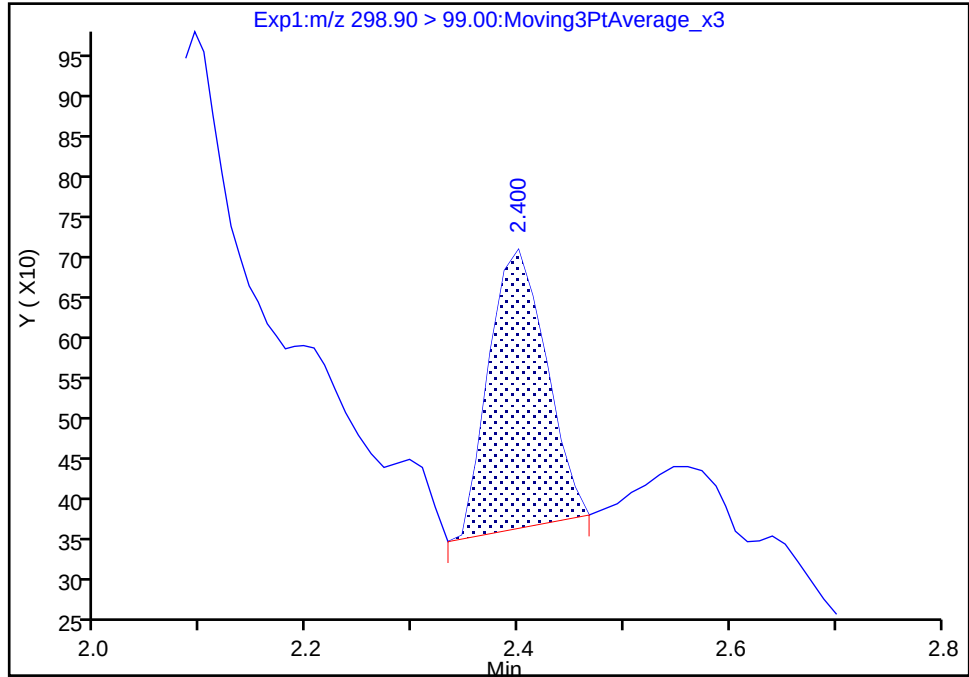
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

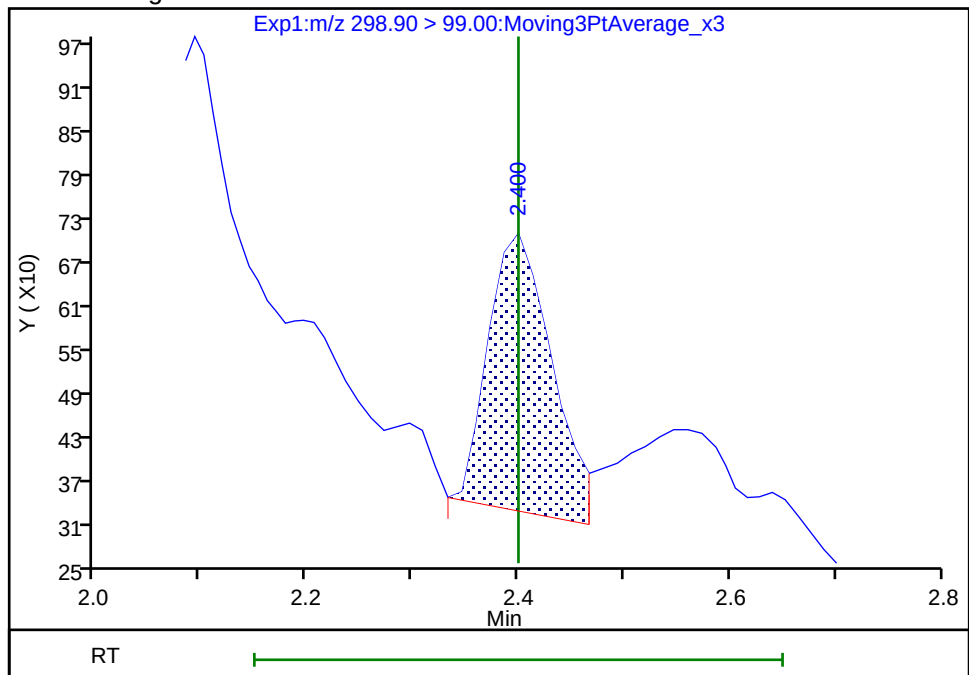
RT: 2.40
Area: 1295
Amount: 0.001097
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1575
Amount: 0.001669
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:55:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 738 of 97811/21/2022
4:10 PM

Eurofins Burlington

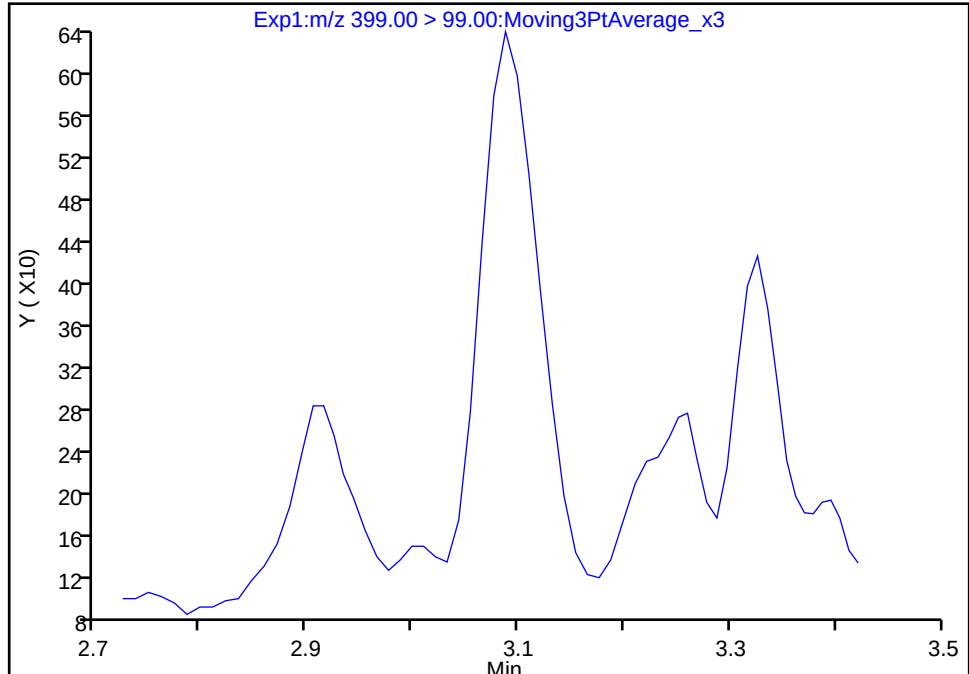
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

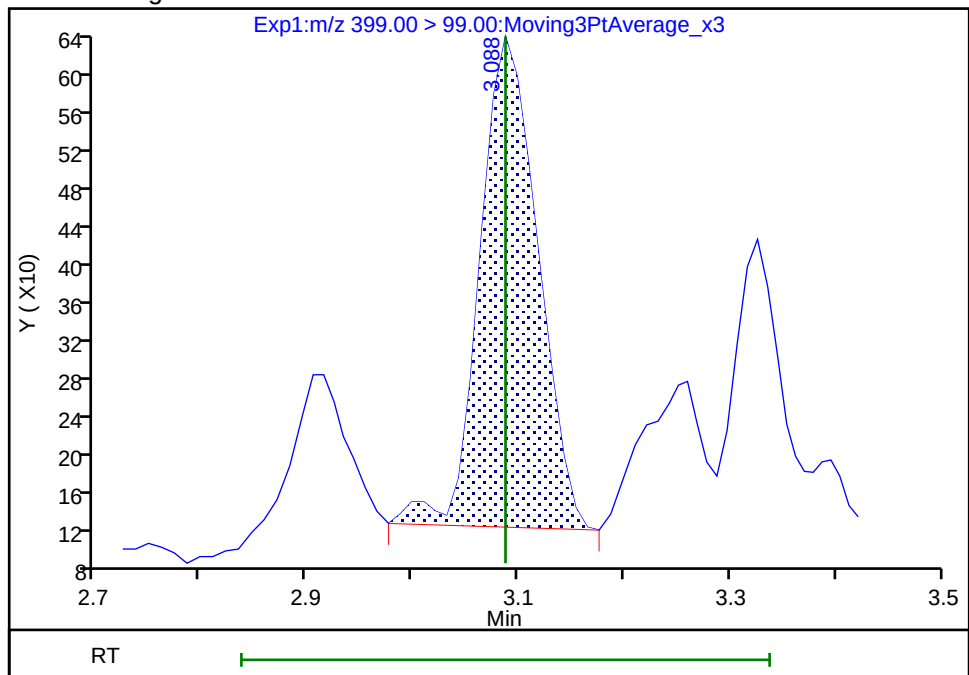
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 1975
Amount: 0.003344
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:41:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

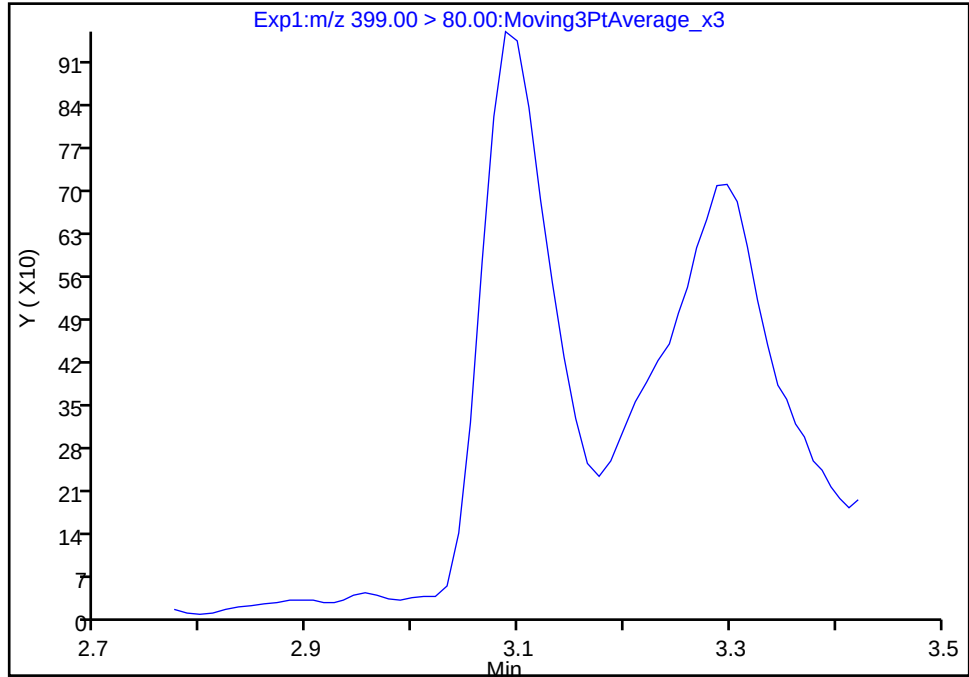
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

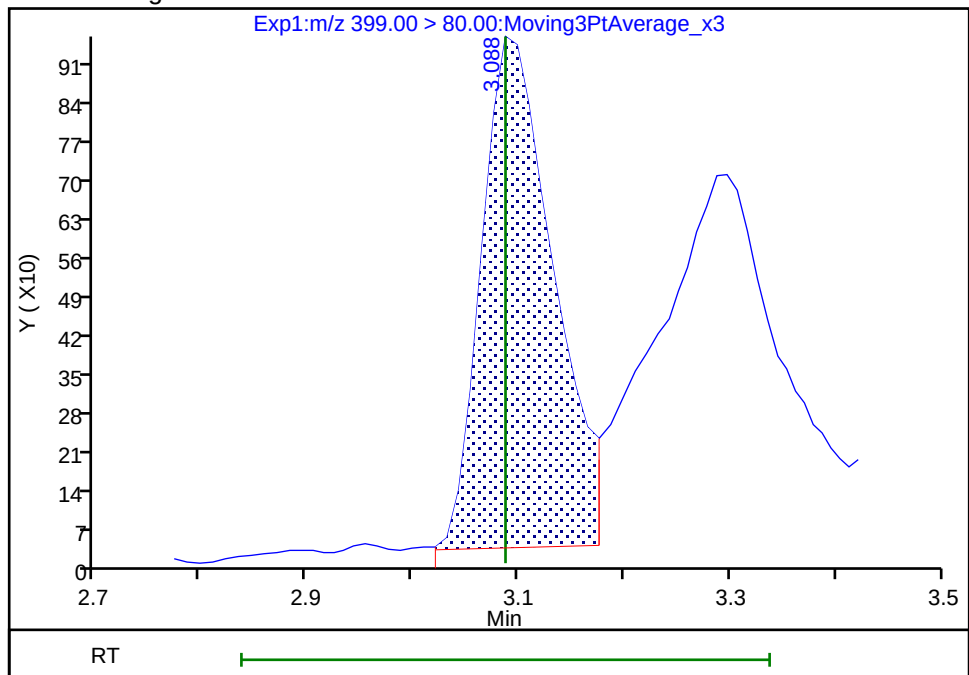
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 4314
Amount: 0.003344
Amount Units: ng/ml



Reviewer: SJ4N, 17-Nov-2022 17:56:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 740 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

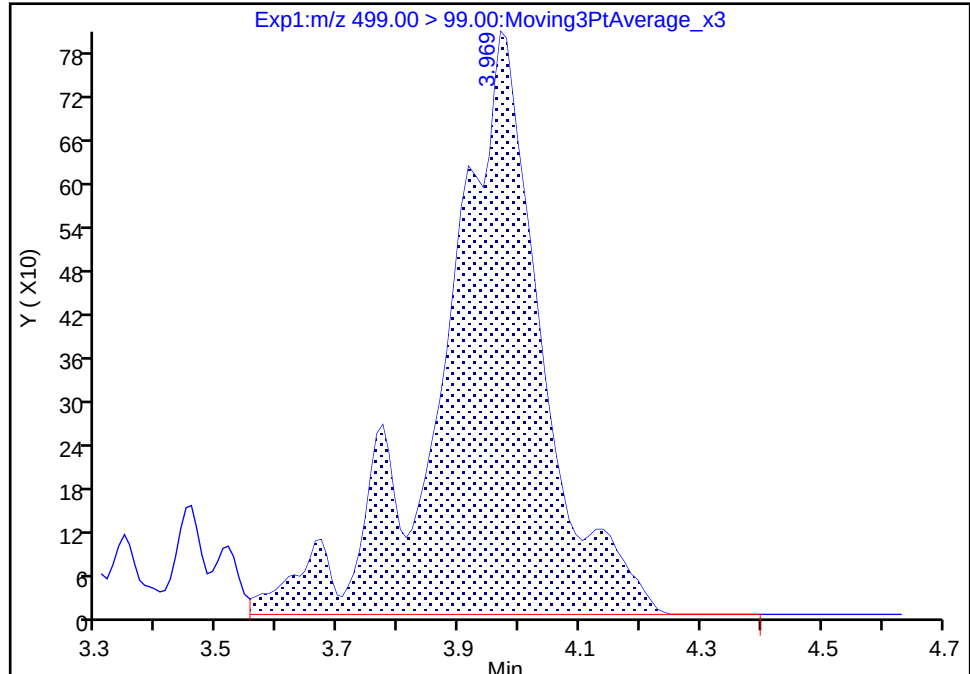
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

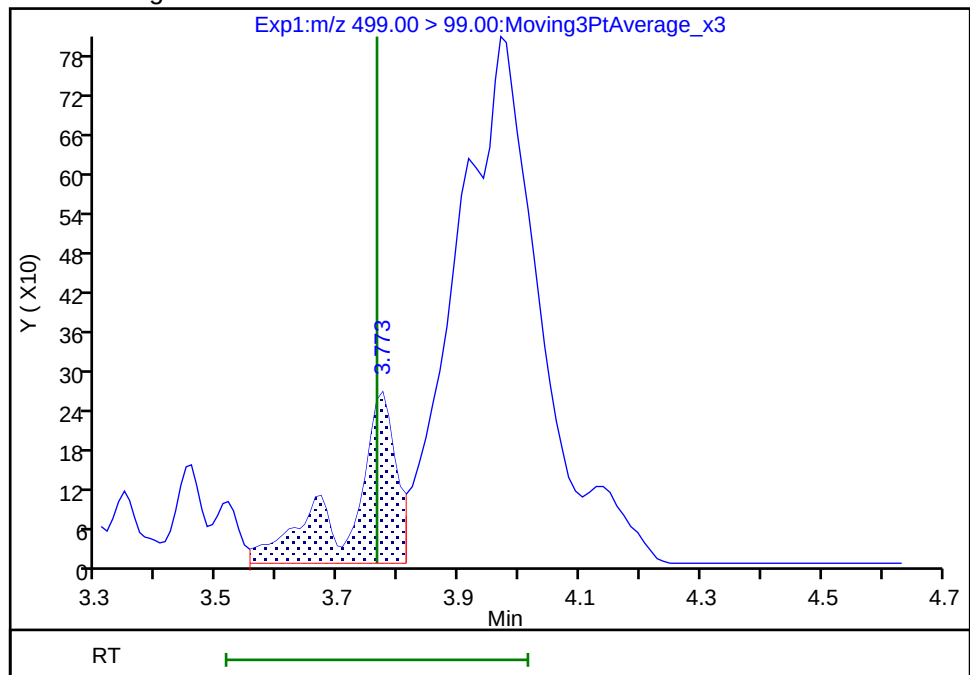
RT: 3.97
Area: 9202
Amount: 0.062746
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 1377
Amount: 0.007565
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:42:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

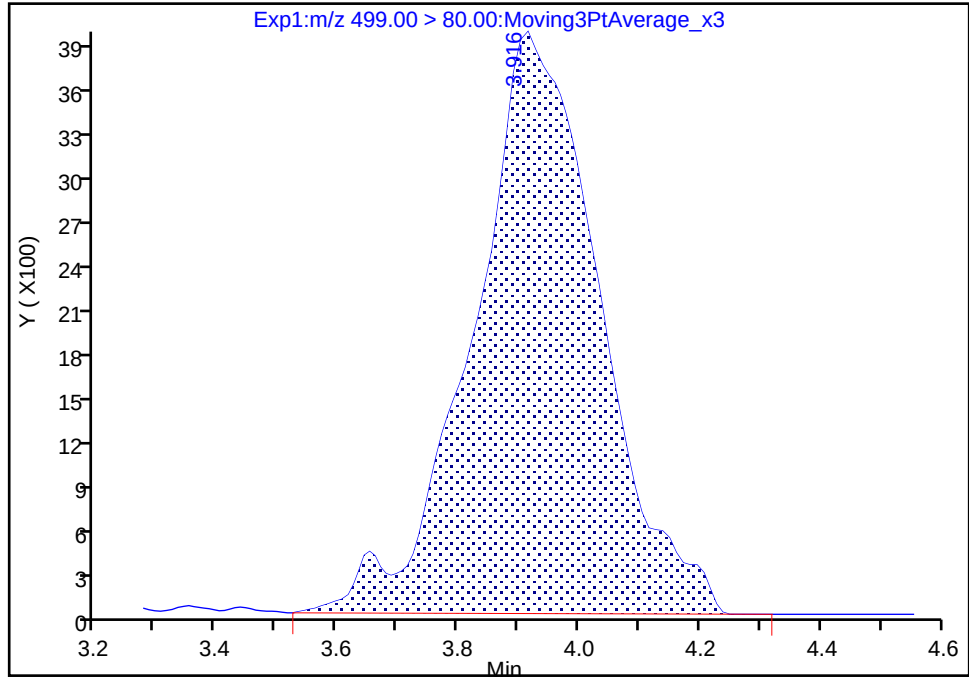
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

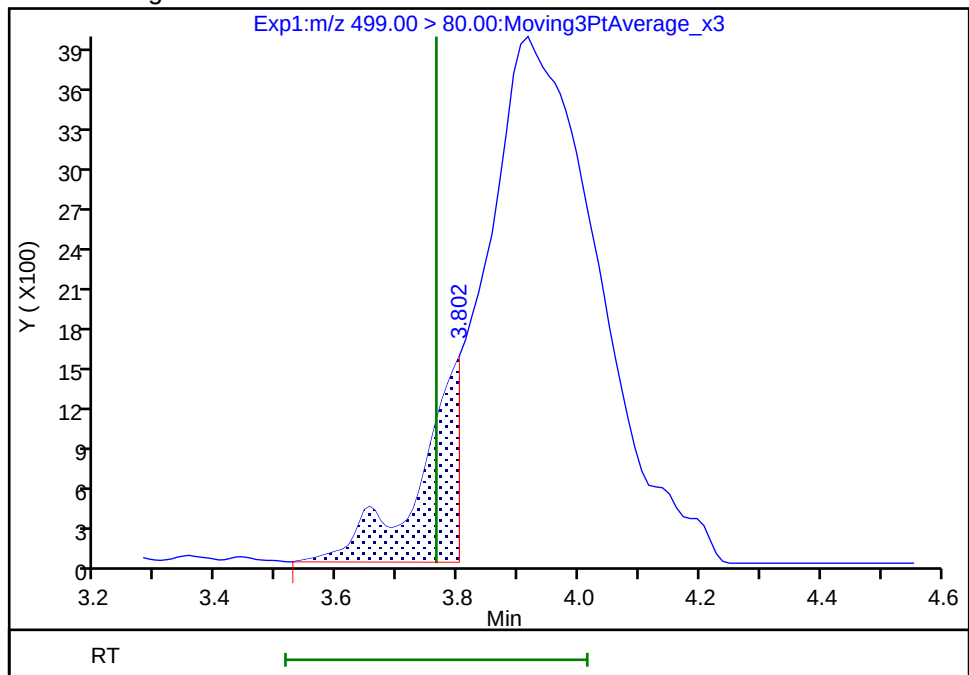
RT: 3.92
Area: 57520
Amount: 0.062746
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 6935
Amount: 0.007565
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:42:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 742 of 97811/21/2022
4:10 PM

Eurofins Burlington

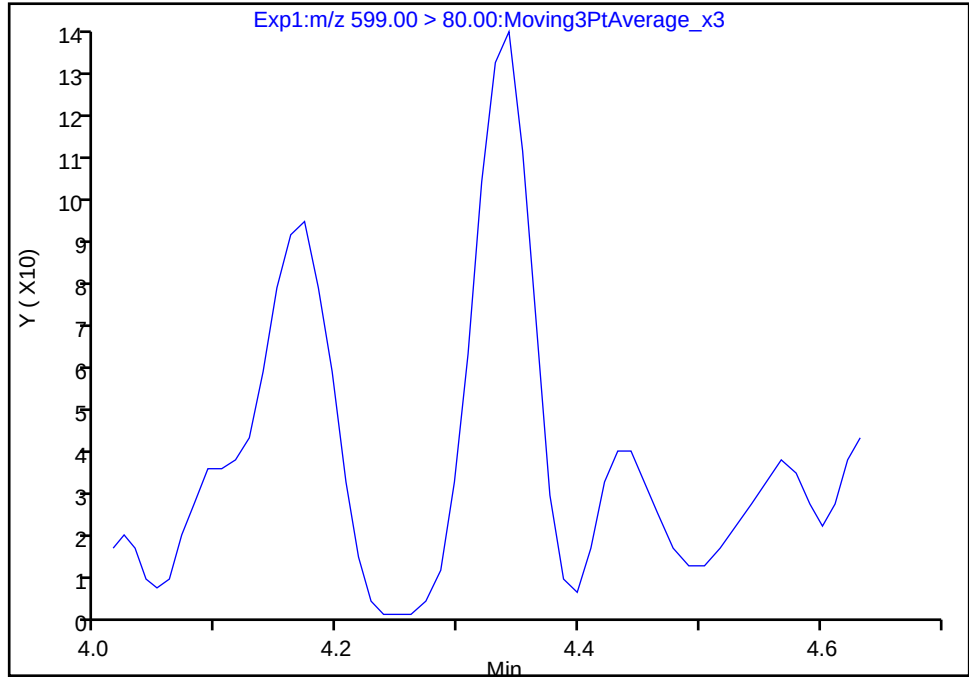
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

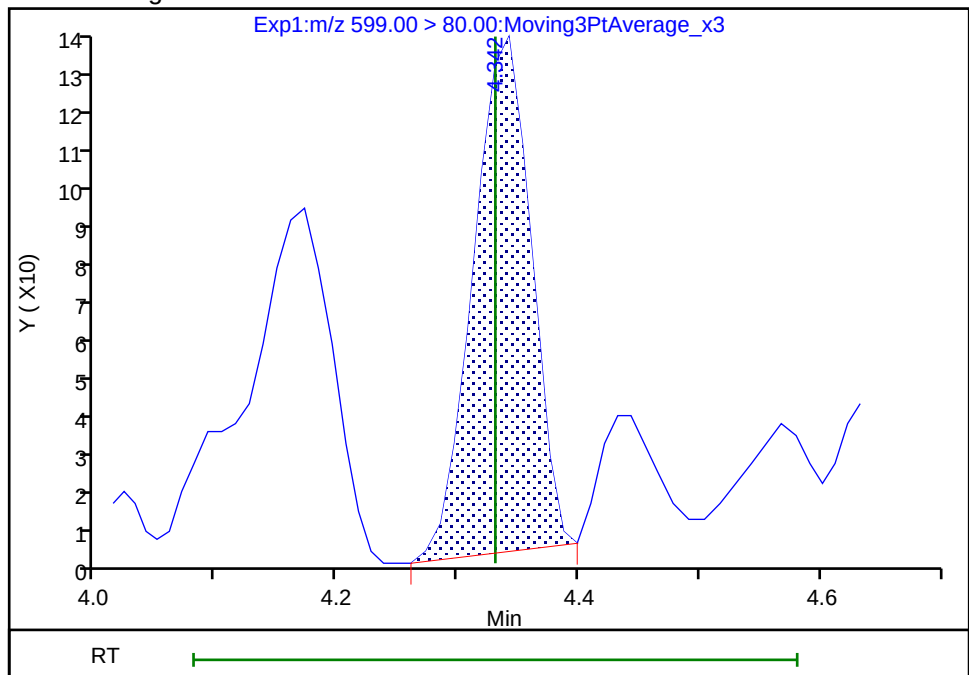
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 430
Amount: 0.000826
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:43:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

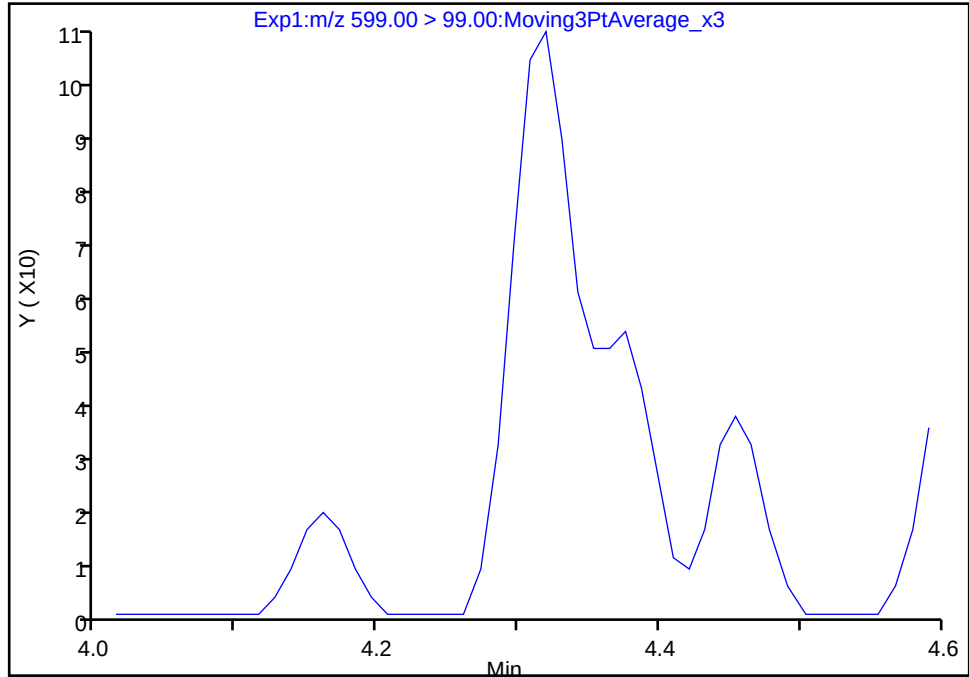
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d
Injection Date: 16-Nov-2022 20:12:47 Instrument ID: LC812
Lims ID: MB 200-185793/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

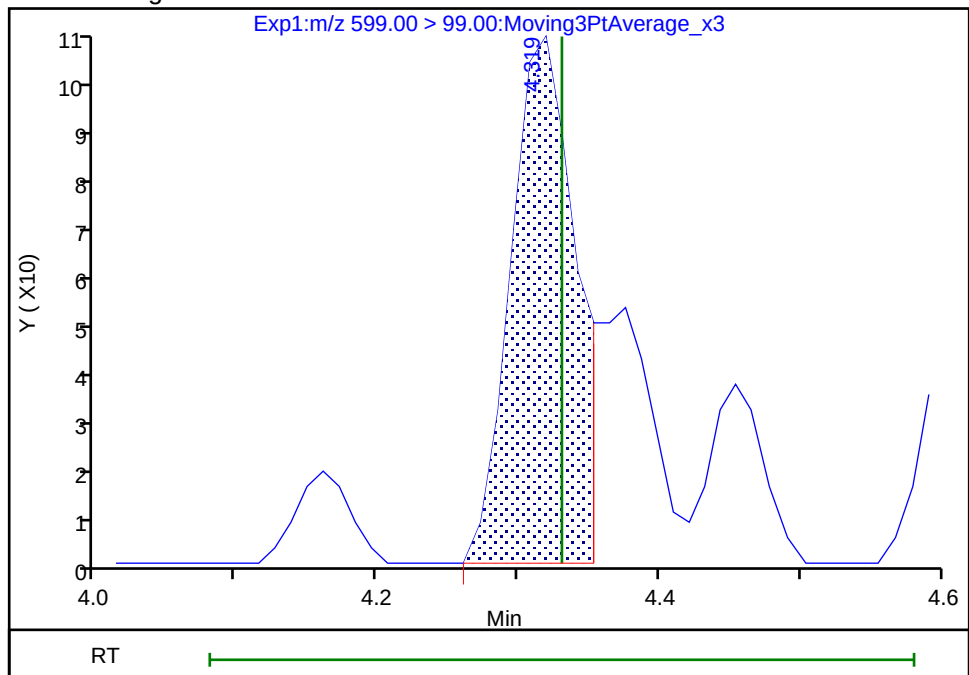
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 319
Amount: 0.000826
Amount Units: ng/ml



Reviewer: khanphomeea, 17-Nov-2022 13:44:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 744 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

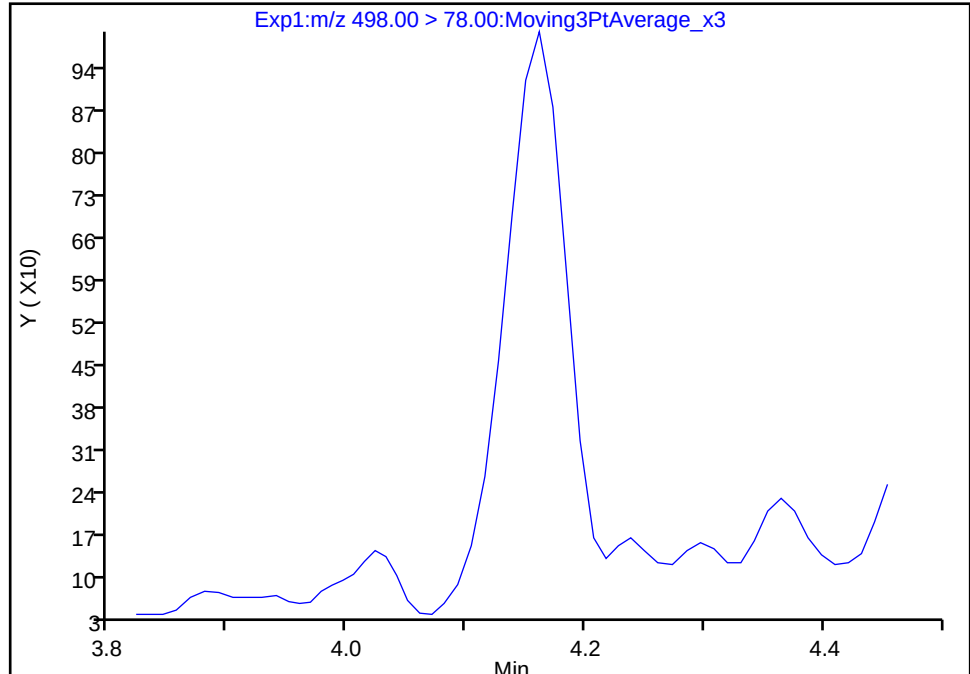
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

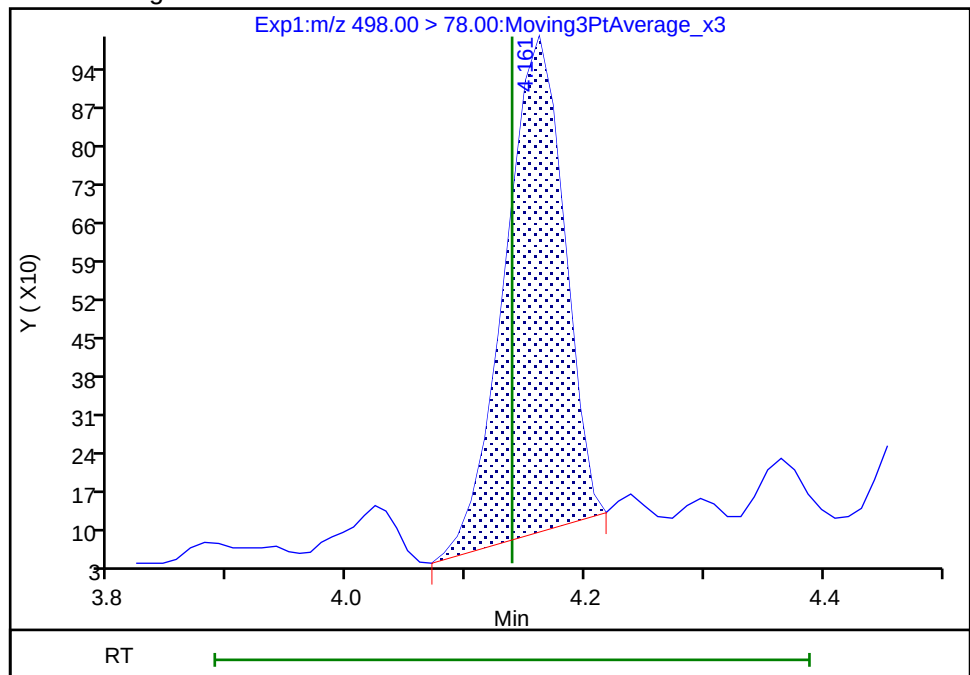
Not Detected

Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.16

Area: 3138

Amount: 0.002354

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:43:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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)

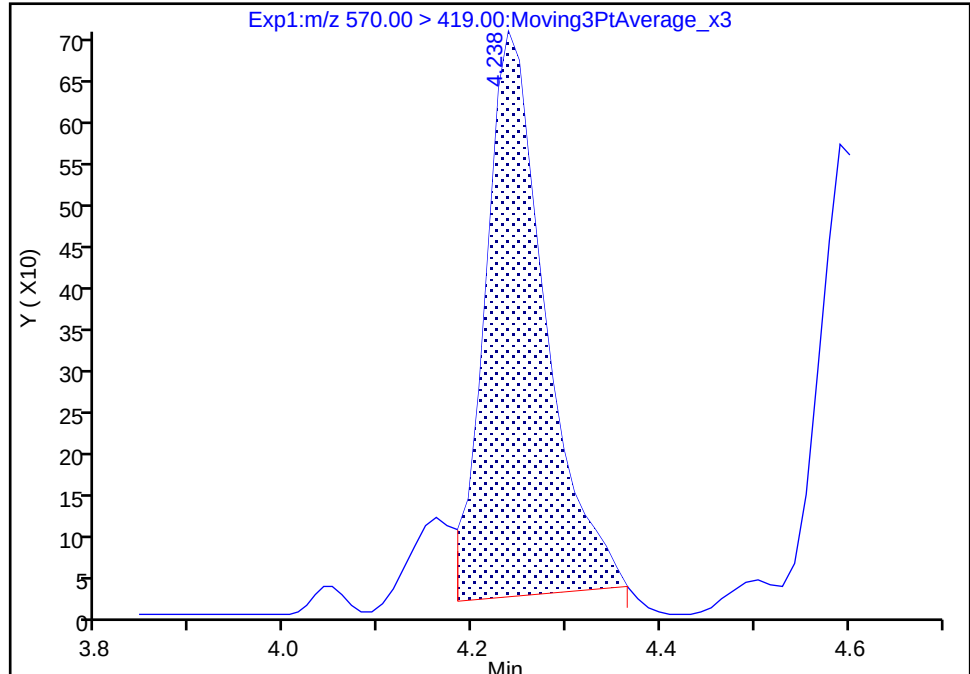
Detector: EXP1

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

Signal: 1

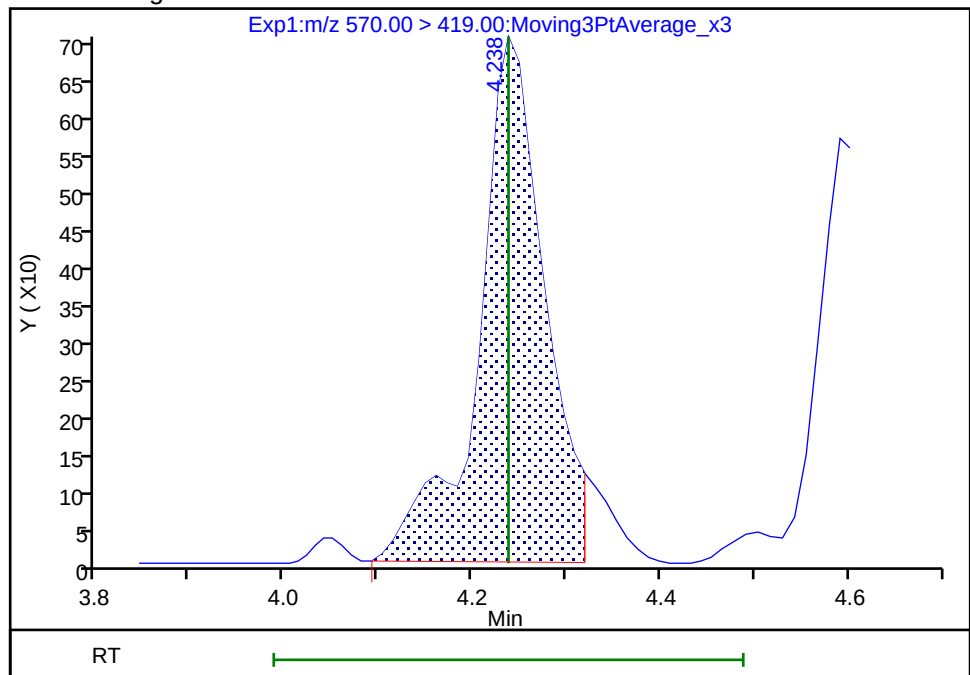
RT: 4.24
Area: 3027
Amount: 0.009904
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 3445
Amount: 0.011272
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:57:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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)

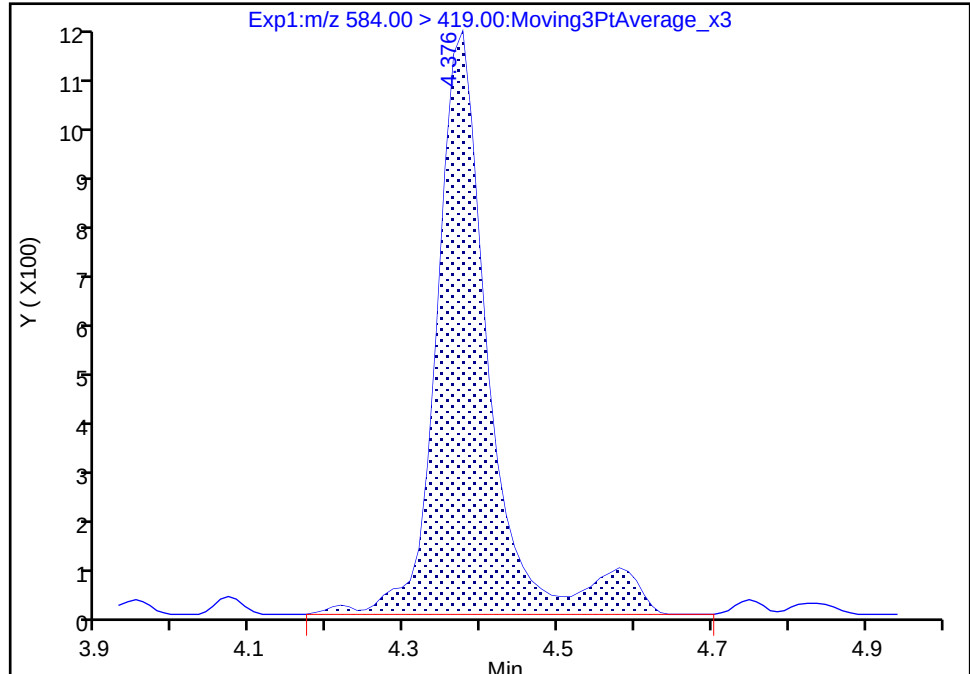
Detector: EXP1

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

Signal: 1

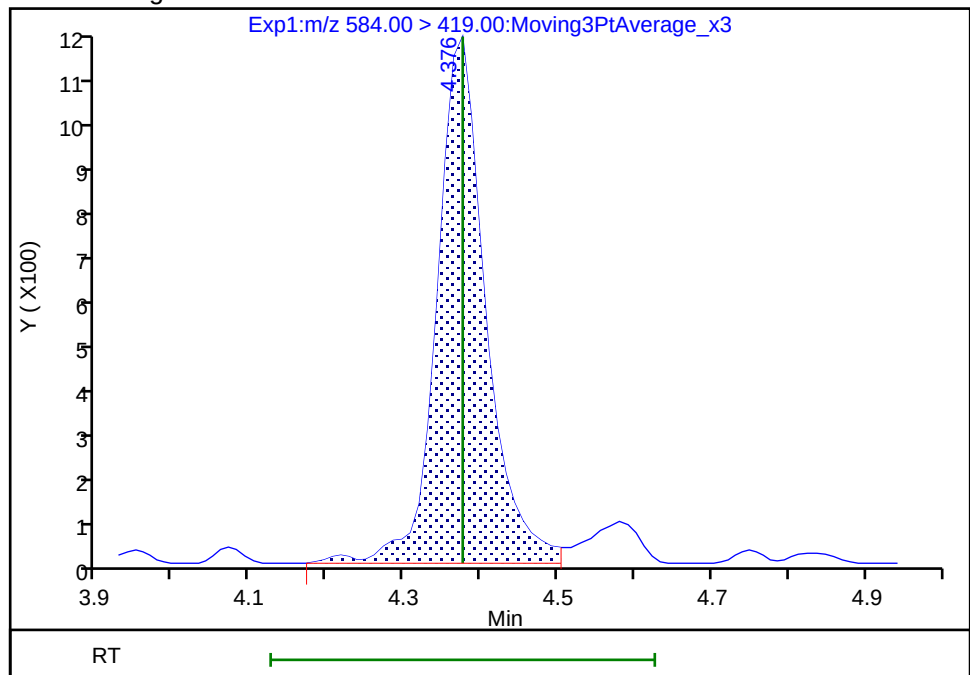
RT: 4.38
Area: 5286
Amount: 0.017541
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 4876
Amount: 0.016181
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:46:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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)

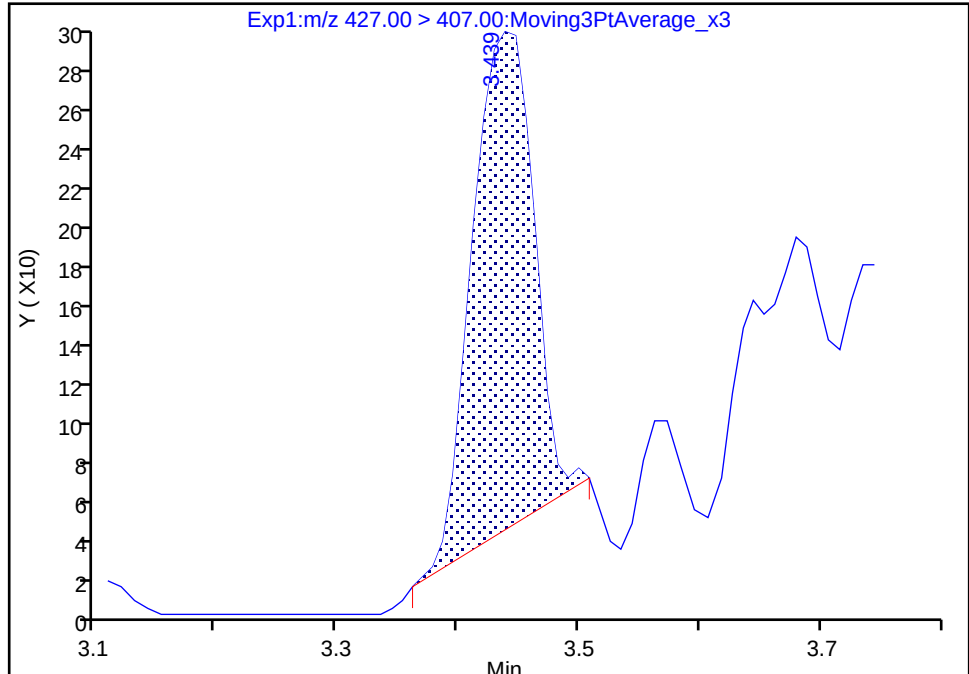
Detector: EXP1

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

Signal: 1

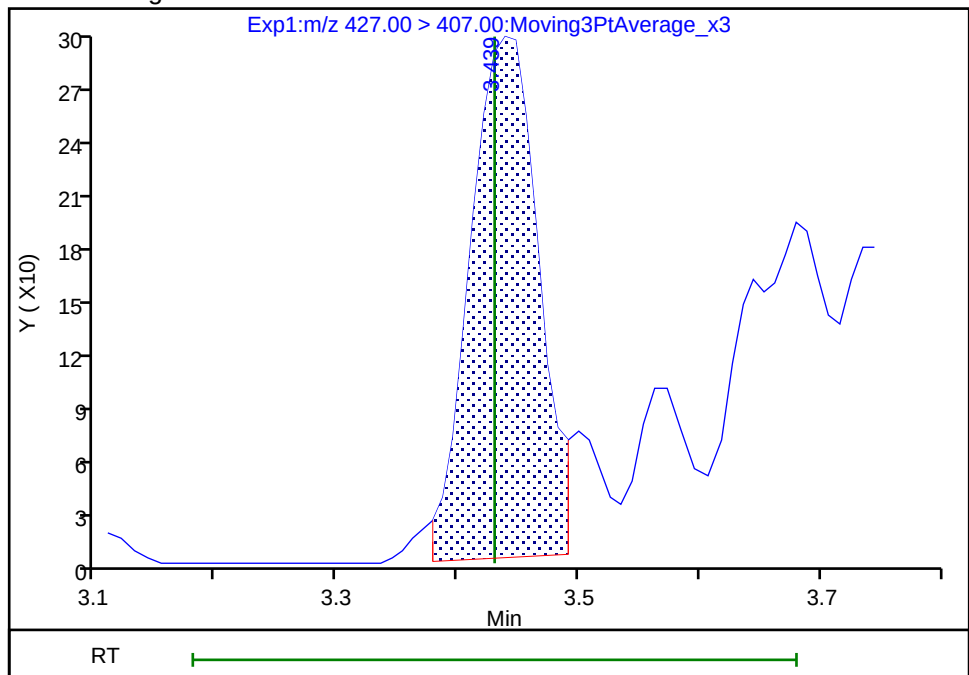
RT: 3.44
Area: 892
Amount: 0.002453
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 1142
Amount: 0.003140
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 17:57:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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

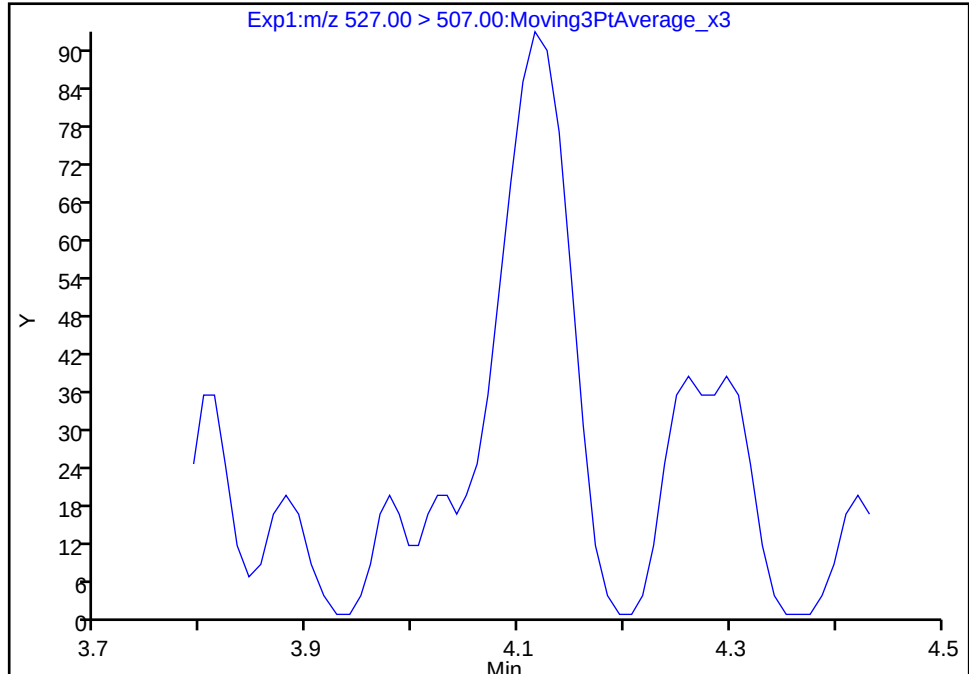
25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

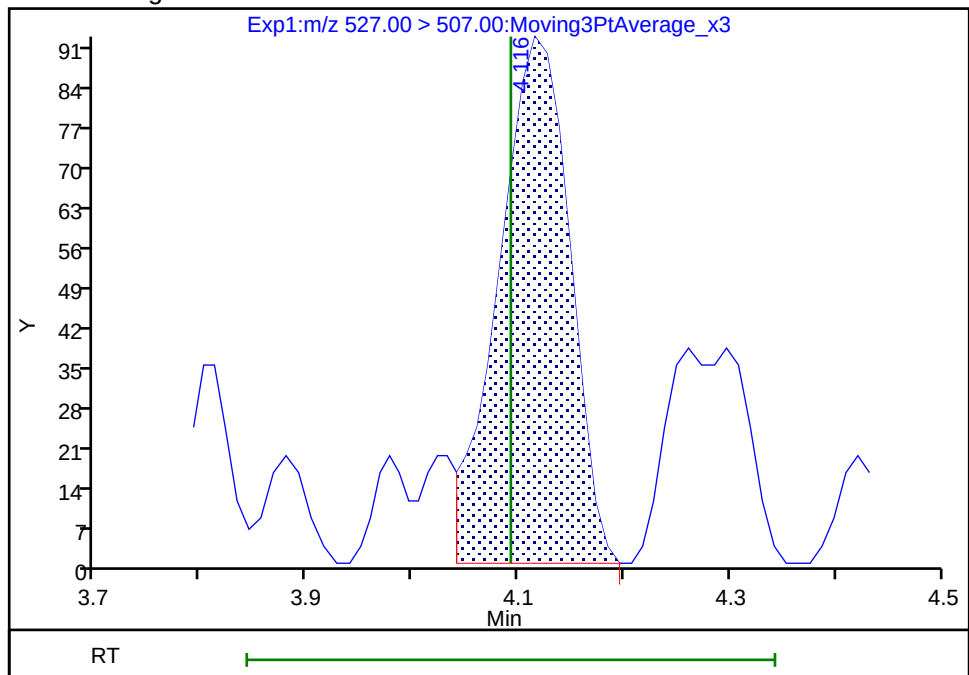
Not Detected

Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.12

Area: 436

Amount: 0.001508

Amount Units: ng/ml

Reviewer: khanphomeea, 17-Nov-2022 13:43:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D02.d

Injection Date: 16-Nov-2022 20:12:47

Instrument ID: LC812

Lims ID: MB 200-185793/1-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)

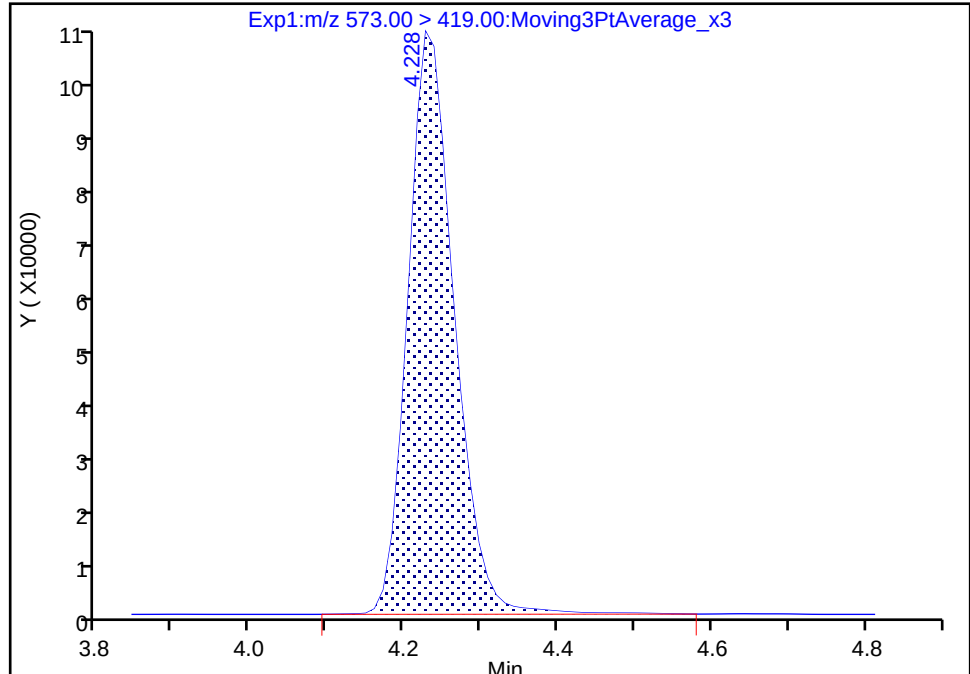
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

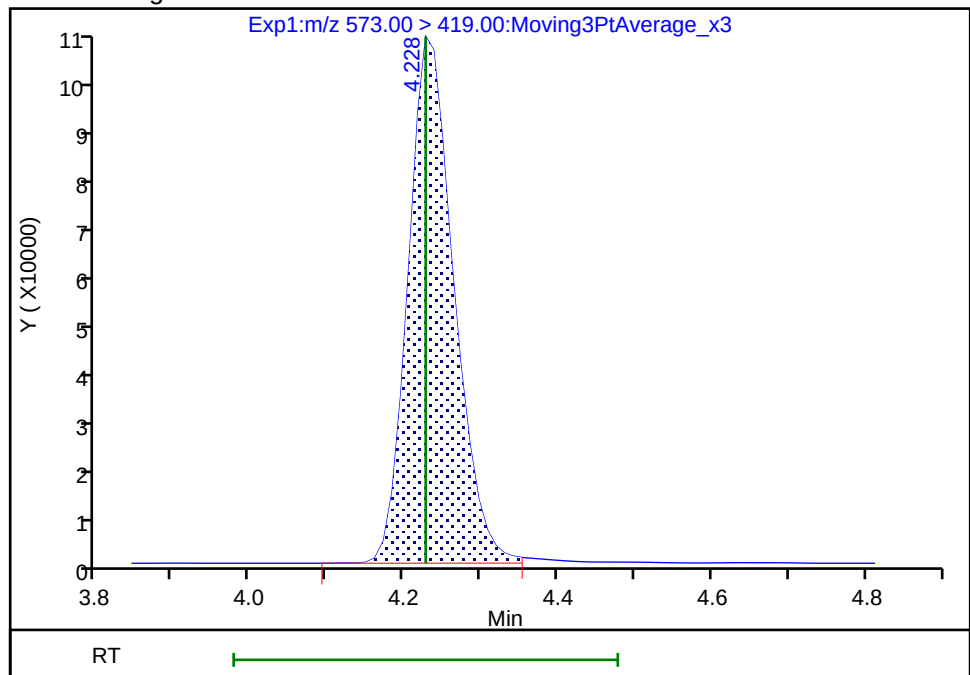
RT: 4.23
Area: 417165
Amount: 1.482339
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 413101
Amount: 1.467898
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:40:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: CCB 200-185818/4

Matrix: Solid Lab File ID: PA221116A04.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 11/16/2022 09:26

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.: 185818 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
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.010
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.: 460-269226-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 200-185818/4
 Matrix: Solid Lab File ID: PA221116A04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1 (mL) Date Analyzed: 11/16/2022 09:26
 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.: 185818 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	100		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	104		50-150
STL00991	13C4 PFOS	105		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	93		50-150
STL00993	13C2 PFHxA	94		50-150
STL00996	13C2 PFDA	113		50-150
STL00997	13C2 PFUnA	118		50-150
STL00998	13C2 PFDoA	125		50-150
STL01056	13C8 FOSA	105		50-150
STL01893	13C5 PFPeA	90		50-150
STL02116	13C2 PFTeDA	131		50-150
STL02118	d3-NMeFOSAA	146		50-150
STL02117	d5-NEtFOSAA	143		50-150
STL02279	M2-6:2 FTS	101		50-150
STL02280	M2-8:2 FTS	101		50-150
STL02337	13C3 PFBS	97		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 16-Nov-2022 09:26:38 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCB
 Misc. Info.: 200-0053344-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 09:04:19 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1611

First Level Reviewer: nampitakw

Date: 17-Nov-2022 07:28:03

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										M
217.00 > 172.00	2.059	2.068	-0.009	0.600	2617855	1.16		92.7	10459	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.360	2.373	-0.013	0.688	1990807	1.12		89.6	3501	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.006	7553	0.004433			0.3	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.386	2.386	0.0	0.696	2038950	1.13		97.4	218763	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.386	2.400	-0.014	1.000	3961	0.001959	Target=2.19		4.9	M
298.90 > 99.00	2.386	2.400	-0.014	1.000	2364		1.68(1.09-3.28)		1.8	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.701	2.689	0.012	1.009	160	0.000380			6.0	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.677	2.689	-0.012	0.780	181150	1.11		95.0	168	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.713	2.725	-0.012	0.791	2116930	1.17		93.7	4004	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	3880	0.002110	Target=13.67		0.9	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	390		9.95(6.83-20.50)		1.1	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.810	2.823	-0.013	0.819	385130	1.14		90.8	1859	
D 11 18O2 PFHxS										
403.00 > 84.00	3.065	3.088	-0.023	0.894	1515489	1.18		99.7	4445	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.065	3.088	-0.023	1.000	5319	0.003568	Target=3.60		9.7	M
399.00 > 99.00	3.054	3.088	-0.034	0.996	1827		2.91(1.80-5.40)		3.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4 PFHpA										
367.00 > 322.00	3.076	3.088	-0.012	0.897	2073794	1.17		93.4	3565	
77 DONA										M
377.00 > 251.00	3.110	3.121	-0.011	0.830	967	0.000195	Target=3.10		2.1	M
377.00 > 85.00	3.121	3.121	0.0	0.833	542		1.78(1.55-4.65)		1.3	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.413	3.430	-0.017	0.995	262363	1.19		101	682	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.421	3.430	-0.009	1.003	335	0.000832			1.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.430	3.439	-0.009	1.000	2466491	1.30		104	5215	
* 62 13C2 PFOA										
415.00 > 370.00	3.430	3.439	-0.009		2315621	1.25			4255	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.430	3.439	-0.009	1.000	3797	0.001700	Target=2.73		0.3	M
413.00 > 169.00	3.447	3.439	0.008	1.005	1128		3.37(1.37-4.10)		1.9	M
D 18 13C4 PFOS										
503.00 > 80.00	3.745	3.764	-0.019	1.092	1065526	1.26		105	2933	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.792	3.764	0.028	1.013	5696	0.005258	Target=5.09		1.7	RM
499.00 > 99.00	3.754	3.764	-0.010	1.003	697		8.17(2.55-7.64)		0.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.764	3.783	-0.019	1.097	2348193	1.26		101	4333	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.764	3.783	-0.019	1.000	1995	0.001012	Target=7.76		0.6	M
463.00 > 169.00	3.773	3.783	-0.010	1.003	251		7.95(3.88-11.63)		3.1	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.915	3.928	-0.013	1.046	703	0.000323			4.7	M
D 23 13C2 PFDA										
515.00 > 470.00	4.061	4.093	-0.032	1.184	2553208	1.41		113	5024	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.071	4.093	-0.022	1.003	2174	0.000990	Target=9.83		1.0	RM
513.00 > 169.00	4.081	4.093	-0.012	1.005	612		3.55(4.91-14.74)		1.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.071	4.093	-0.022	1.187	313737	1.21		101	868	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.093	-0.022	1.000	45	0.000139			0.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.127	4.138	-0.011	1.203	1946893	1.32		105	2396	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.138	4.138	0.0	1.003	424	0.000270			1.4	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.217	4.228	-0.011	1.230	465787	1.82		146	1839	
D 30 13C2 PFUnA										
565.00 > 520.00	4.342	4.365	-0.023	1.266	2194621	1.48		118	3582	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.353	4.365	-0.012	1.003	1594	0.000870	Target=9.68	0.9		RM
563.00 > 169.00	4.353	4.365	-0.012	1.003	90		17.71(4.84-14.53)	1.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.353	4.376	-0.023	1.269	454126	1.79		143	947	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.342	4.376	-0.034	0.997	383	0.001154		5.4		M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.432	4.465	-0.033	1.184	883	0.000312		4.6		M
D 36 13C2 PFDaA										M
615.00 > 570.00	4.580	4.602	-0.022	1.335	2266068	1.56		125	2081	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.580	4.602	-0.022	1.000	1973	0.001018	Target=6.96	0.2		M
613.00 > 169.00	4.580	4.602	-0.022	1.000	434		4.55(3.48-10.43)	6.8		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.002	5.032	-0.030	1.458	2034988	1.64		131	5943	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.002	5.032	-0.030	1.000	338	0.001335	Target=0.99	5.1		M
713.00 > 219.00	5.002	5.032	-0.030	1.000	324		1.04(0.49-1.48)	4.2		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.367	5.400	-0.033	1.565	2569739	1.88		150	3969	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.367	5.411	-0.044	1.000	25103	-0.0135	Target=4.99	2.6		M
813.00 > 169.00	5.367	5.411	-0.044	1.000	4260		5.89(2.49-7.48)	32.1		M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00022

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d

Injection Date: 16-Nov-2022 09:26:38

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

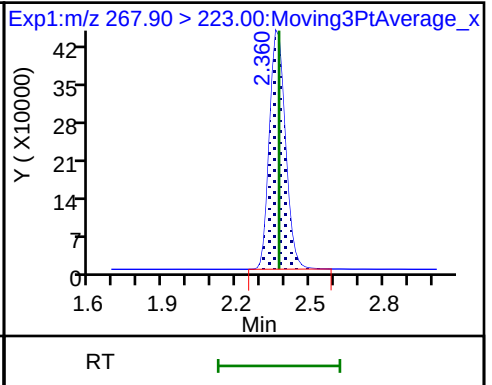
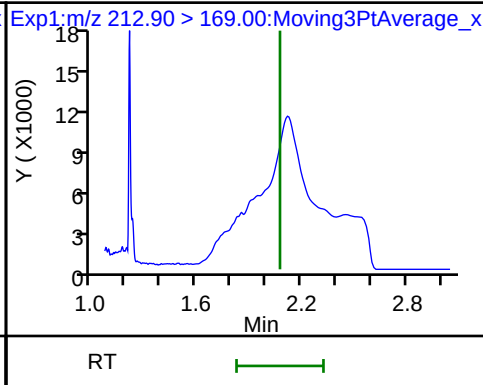
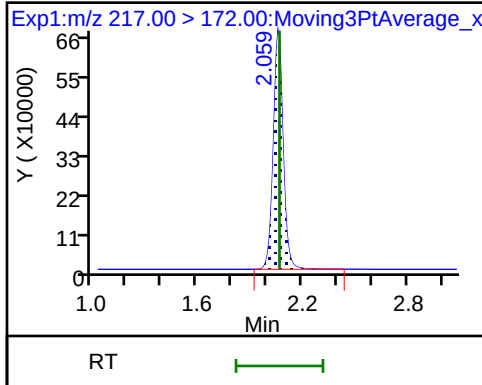
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (ND)

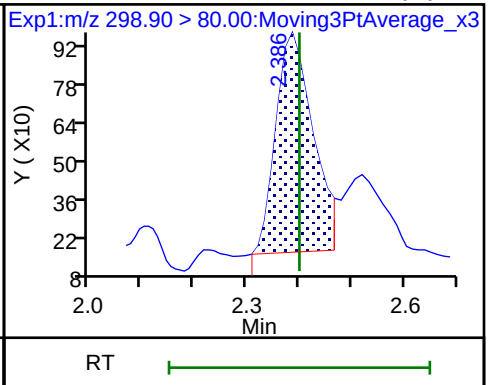
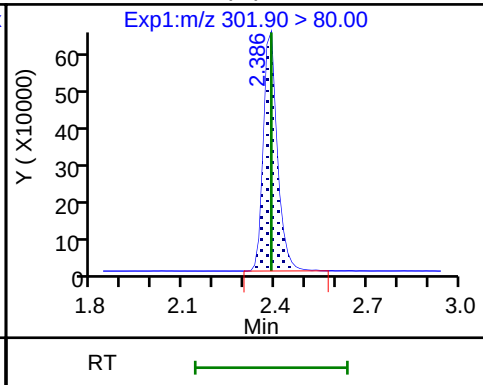
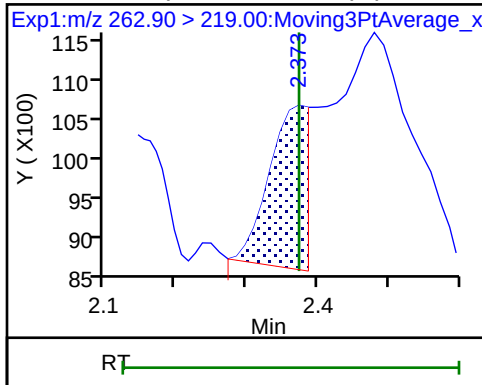
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

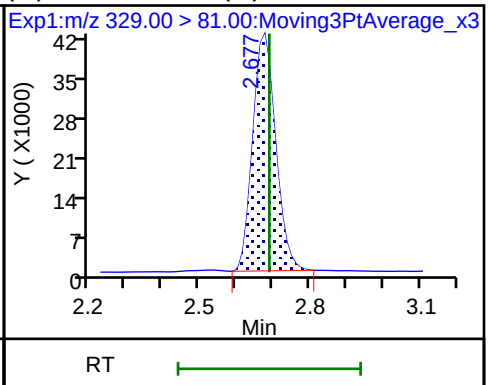
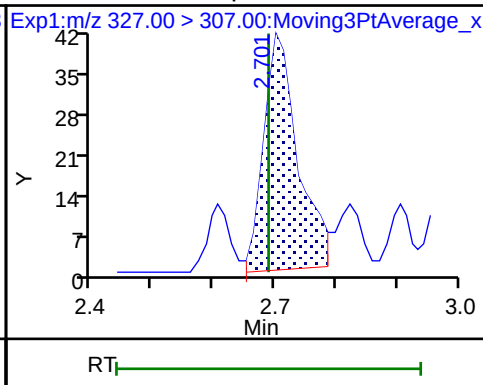
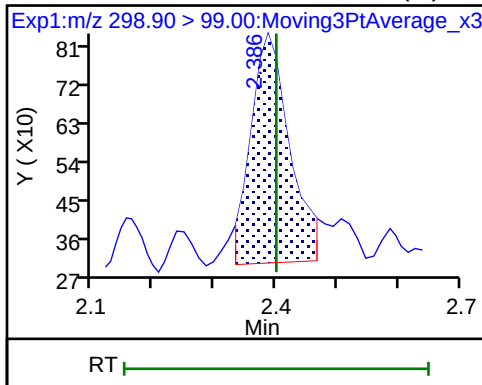
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfonate (M)

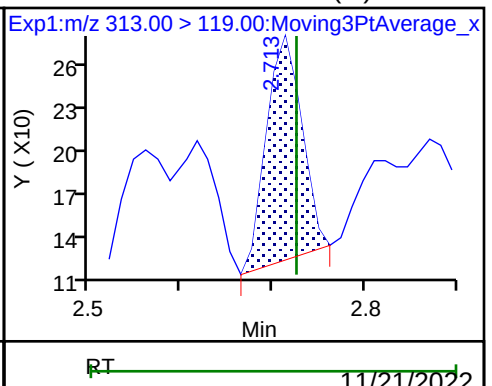
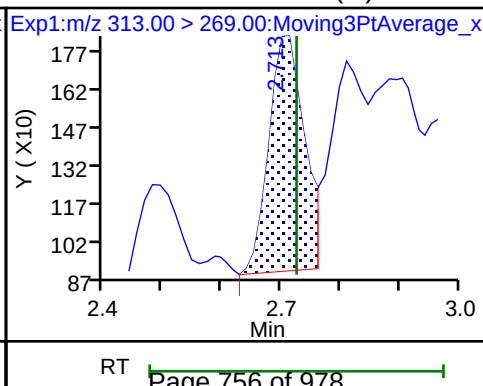
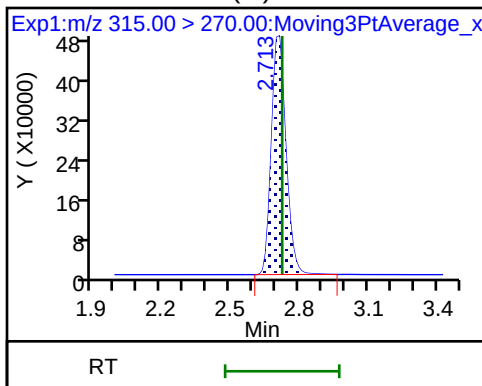
D 50 M2-4:2 FTS (M)



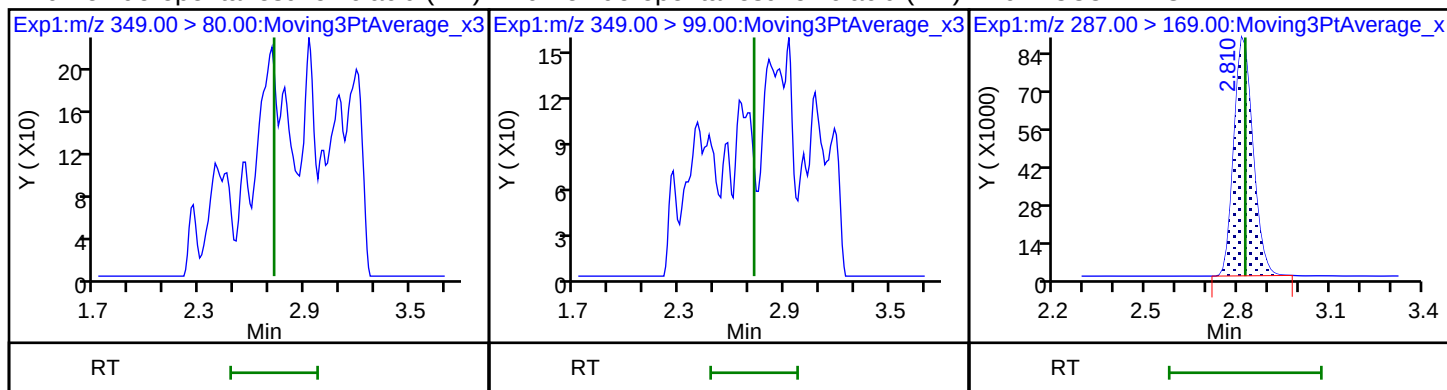
D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

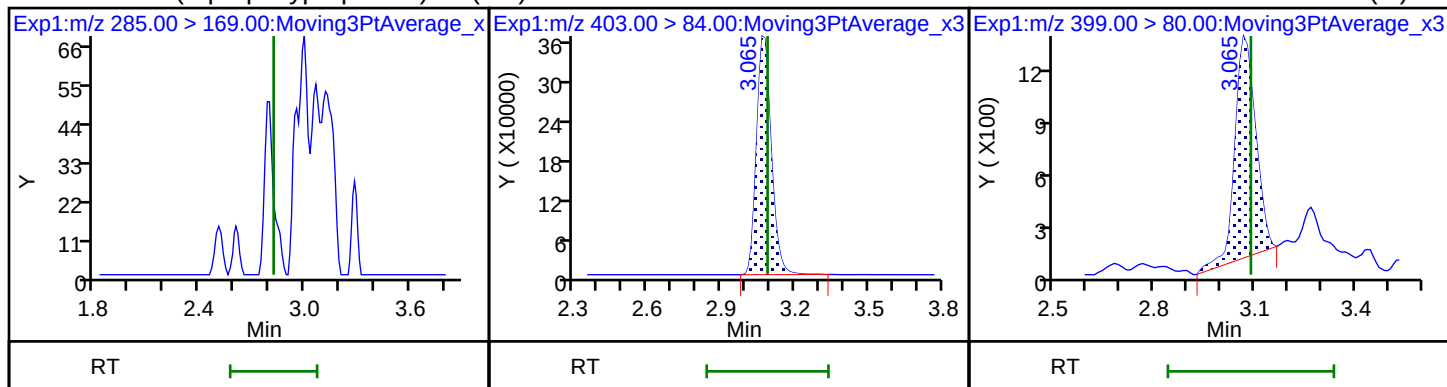


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND) 11 18O2 PFHxS

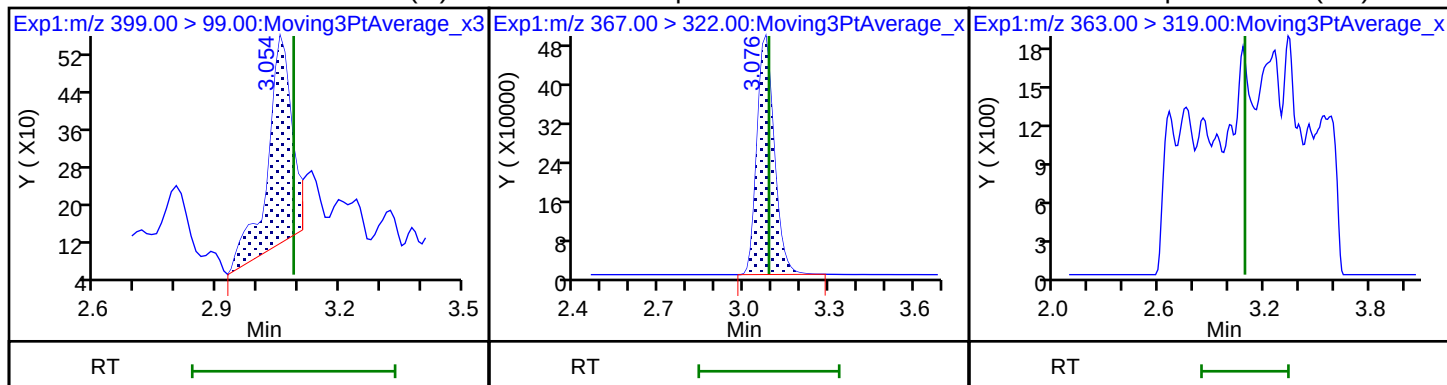
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

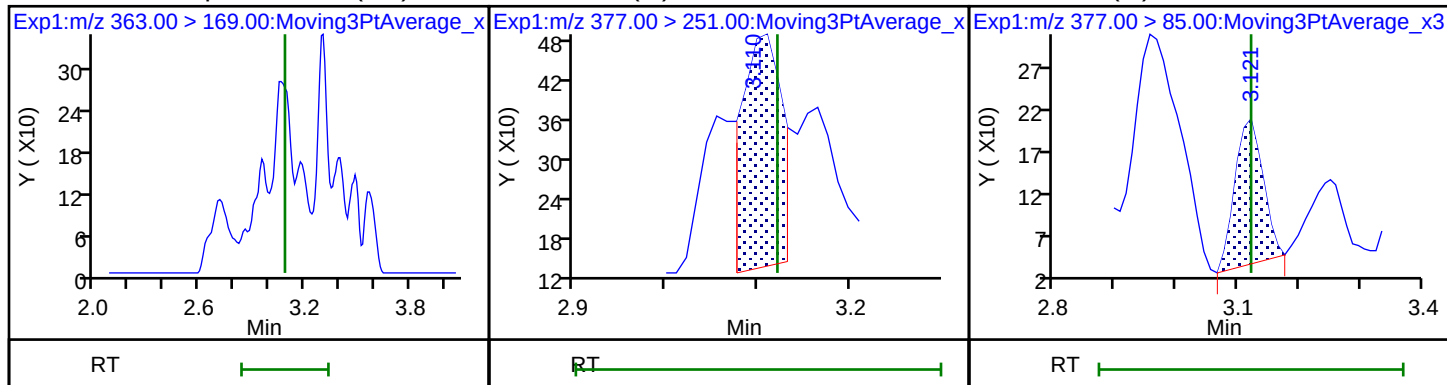
10 Perfluoroheptanoic acid (ND)



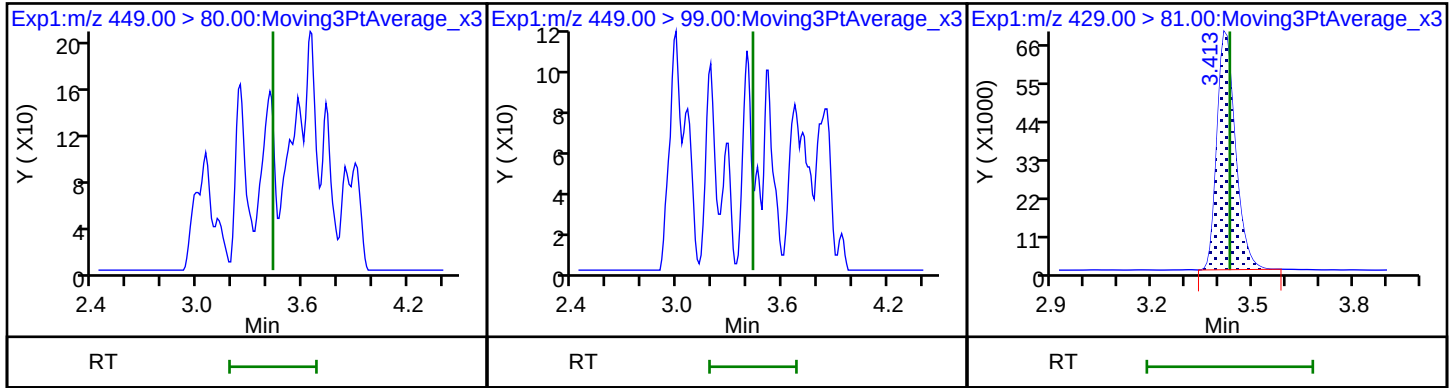
10 Perfluoroheptanoic acid (ND)

77 DONA (M)

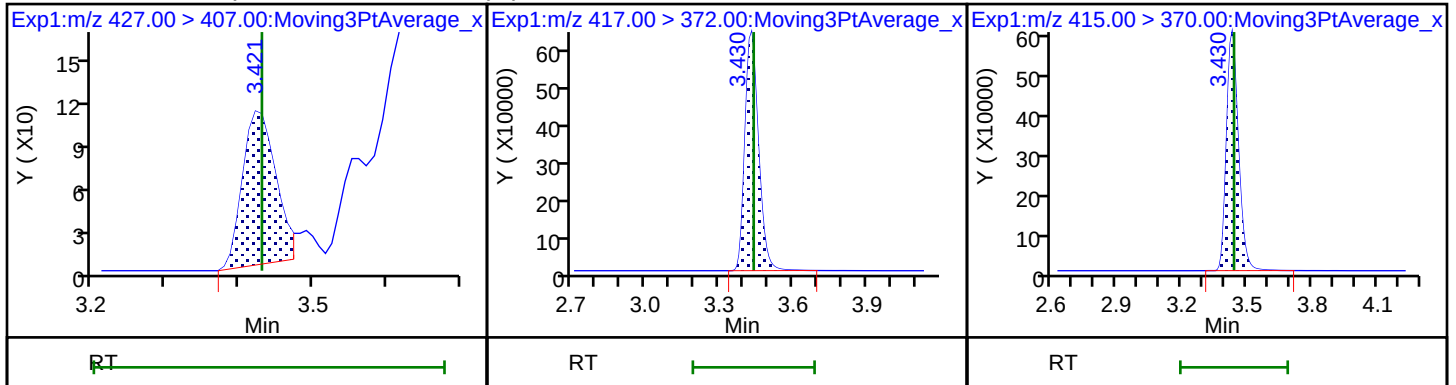
77 DONA (M)



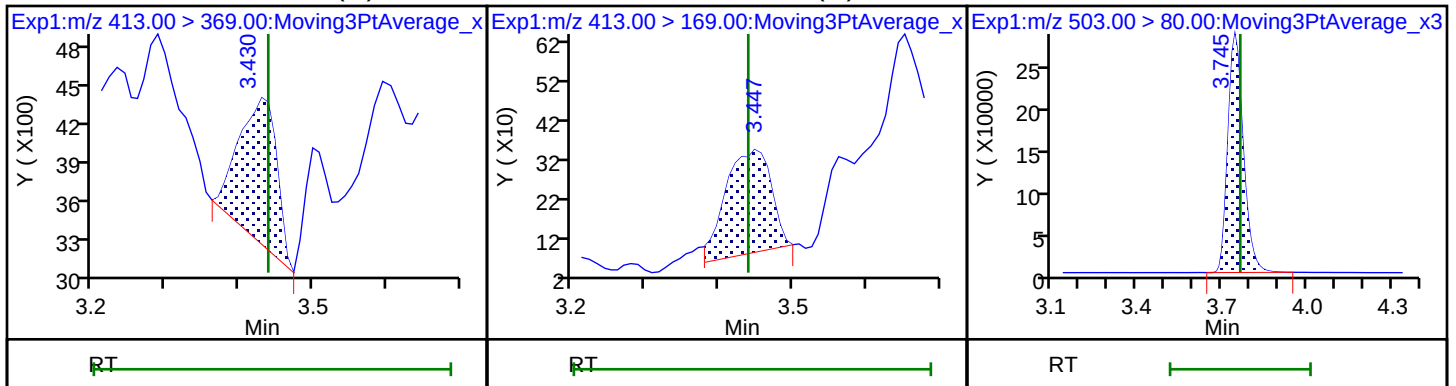
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) D 12 M2-6:2 FTS



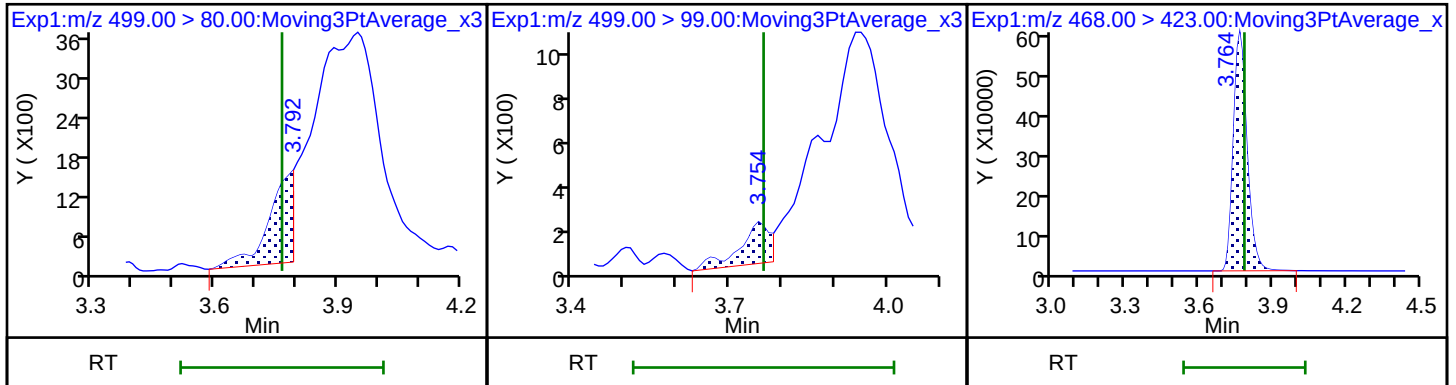
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA * 62 13C2 PFOA

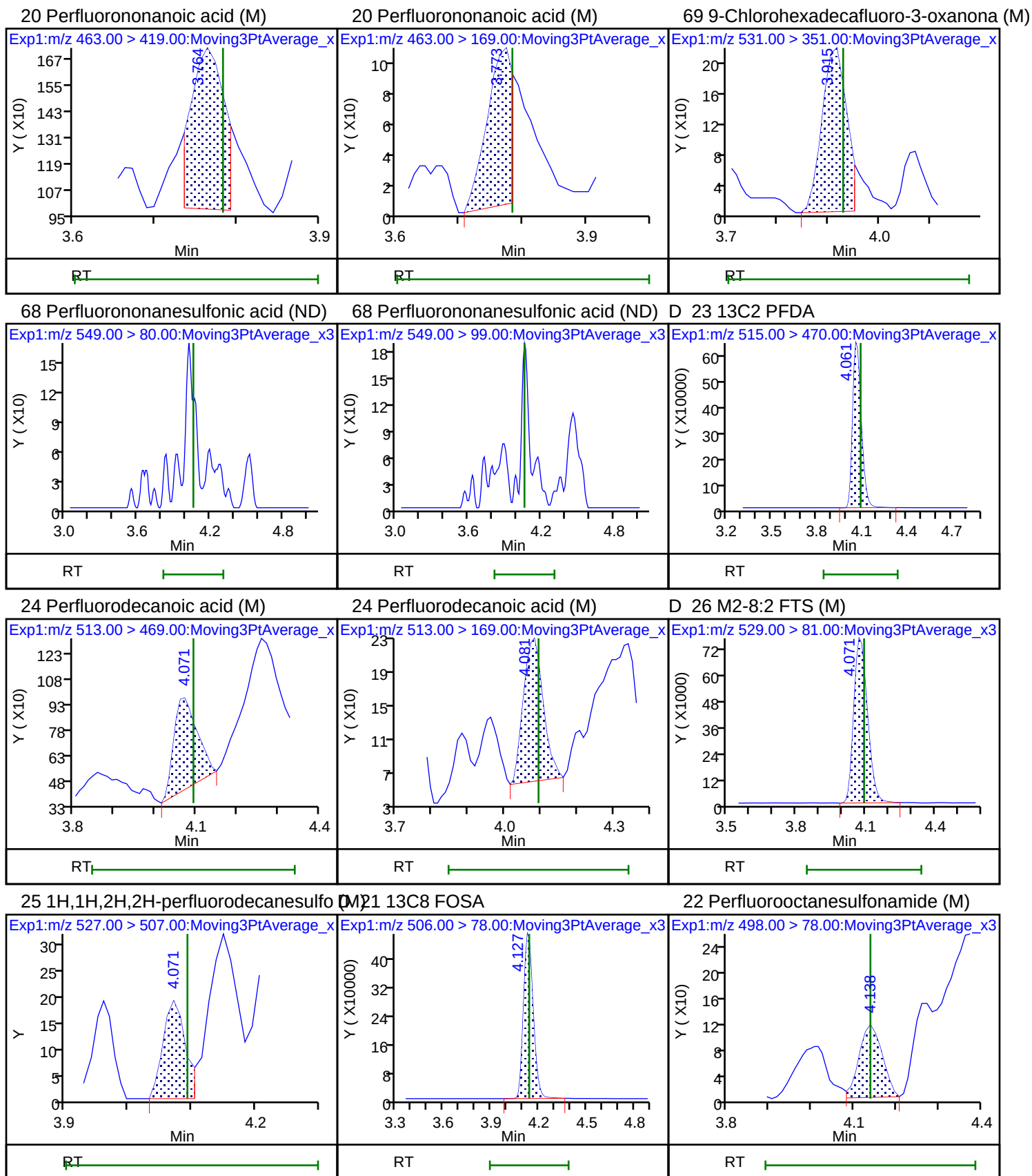


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



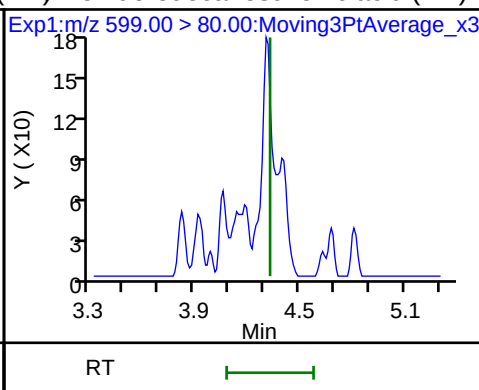
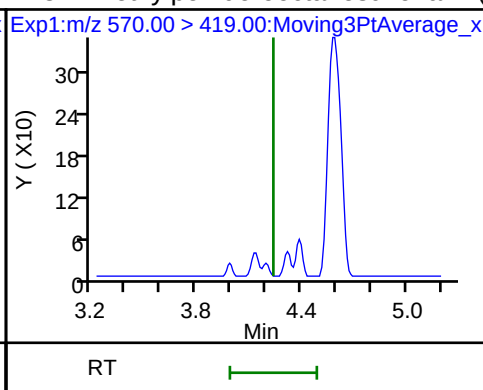
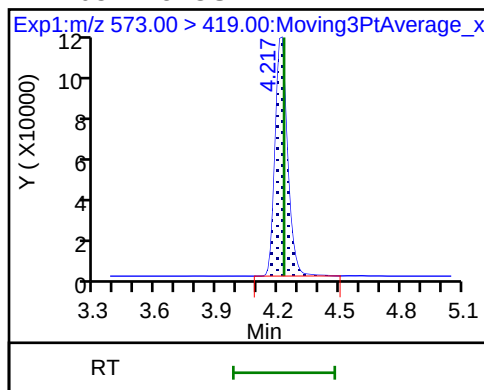
17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA





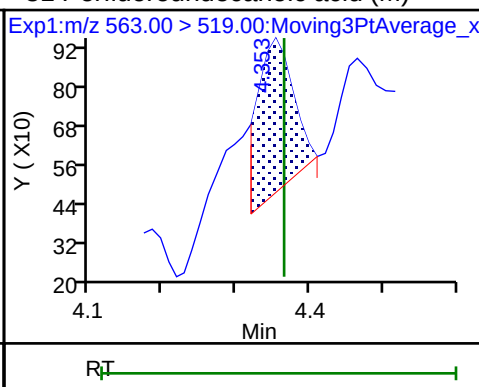
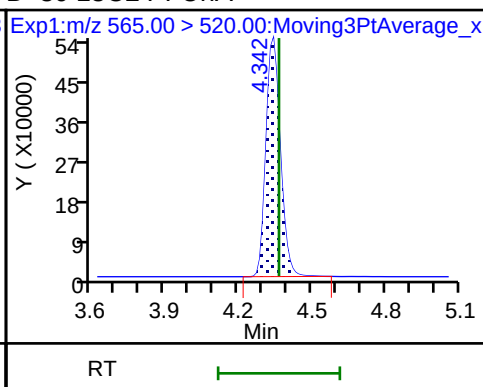
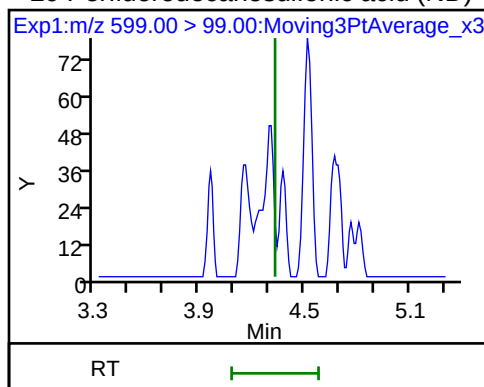
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (ND) 29 Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

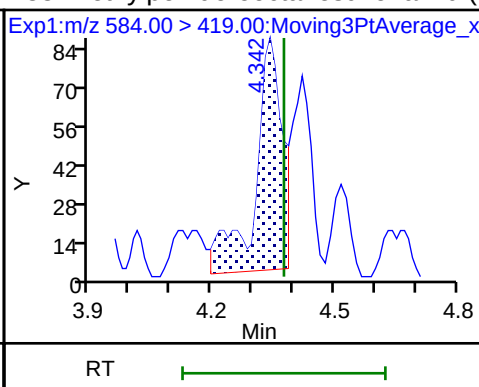
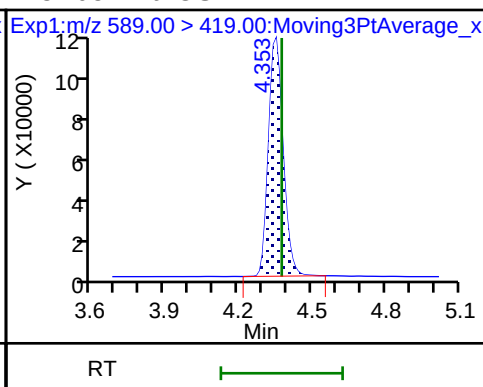
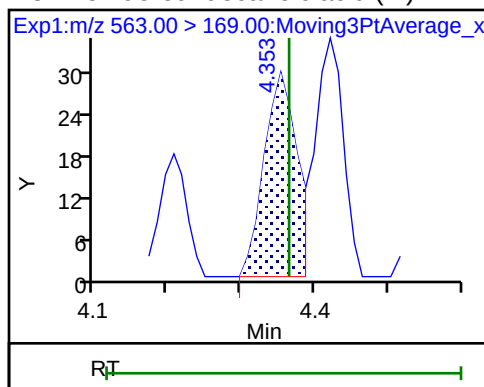
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

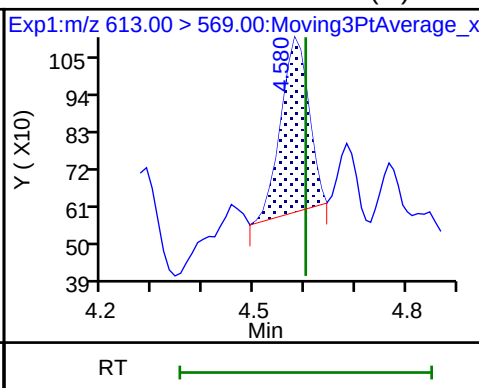
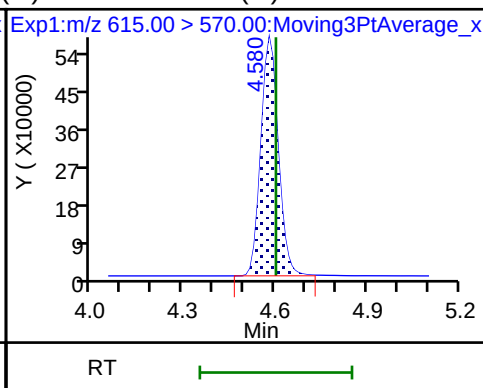
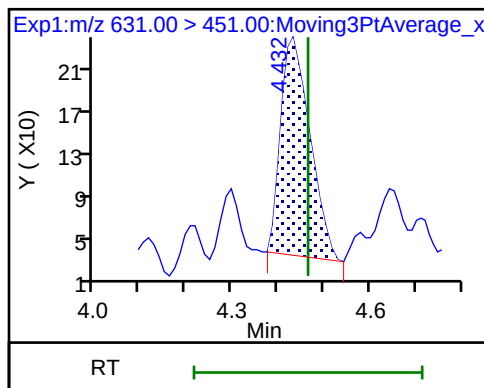
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M)



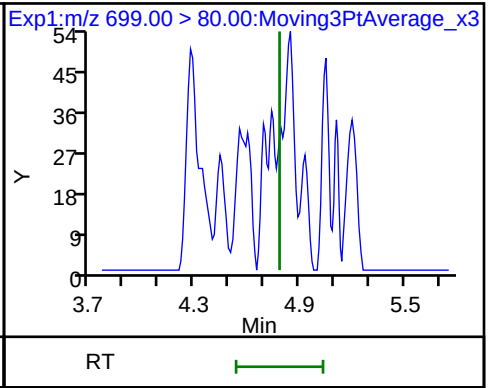
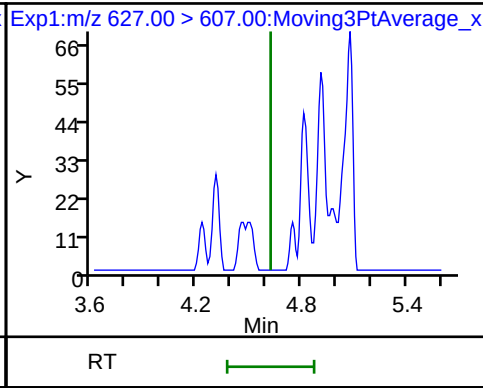
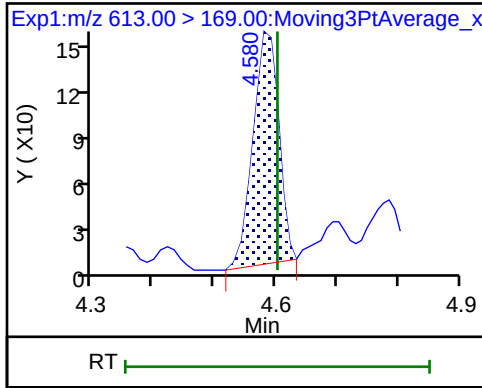
66 11-Chloroeicosafluoro-3-oxaundec (M) 36 13C2 PFDa (M)

37 Perfluorododecanoic acid (M)



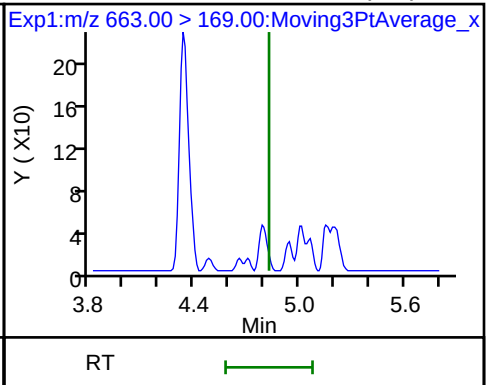
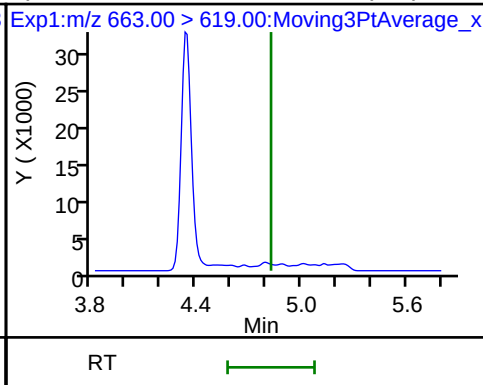
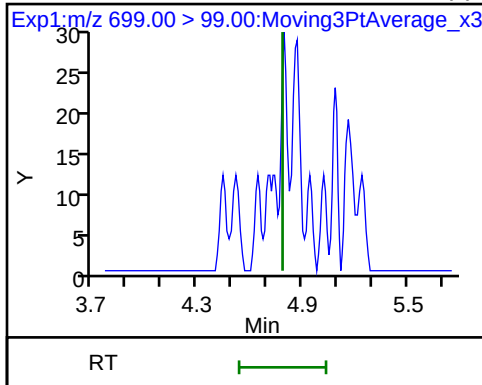
37 Perfluorododecanoic acid (M)

74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND) 41 Perfluorotridecanoic acid (ND)

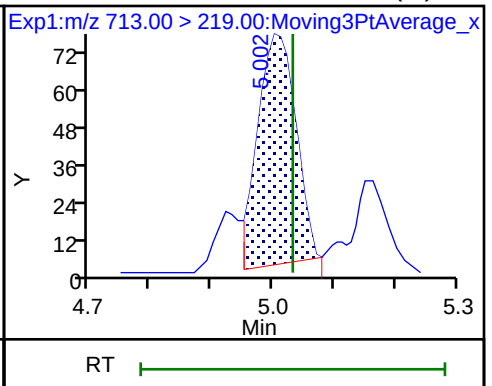
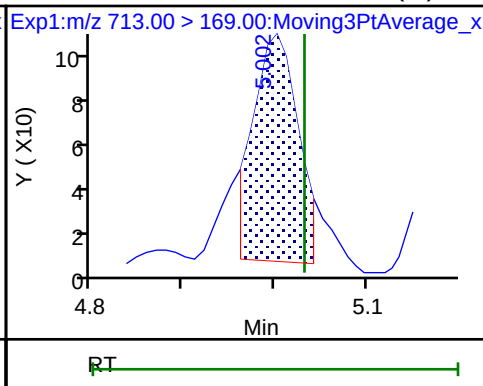
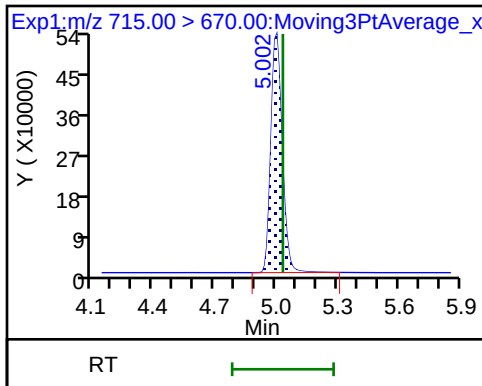
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

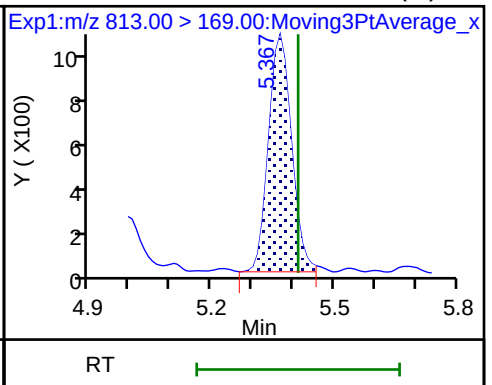
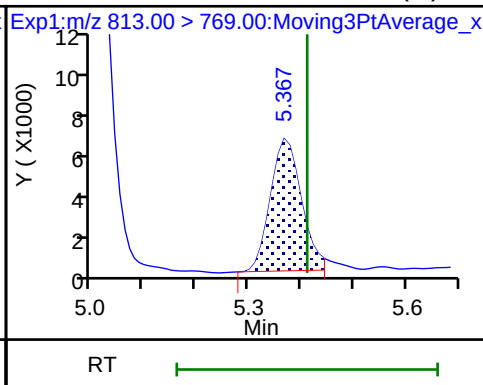
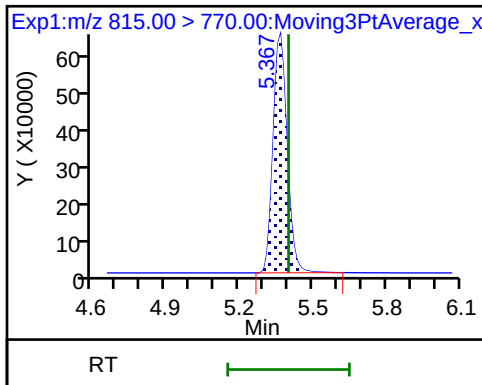
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

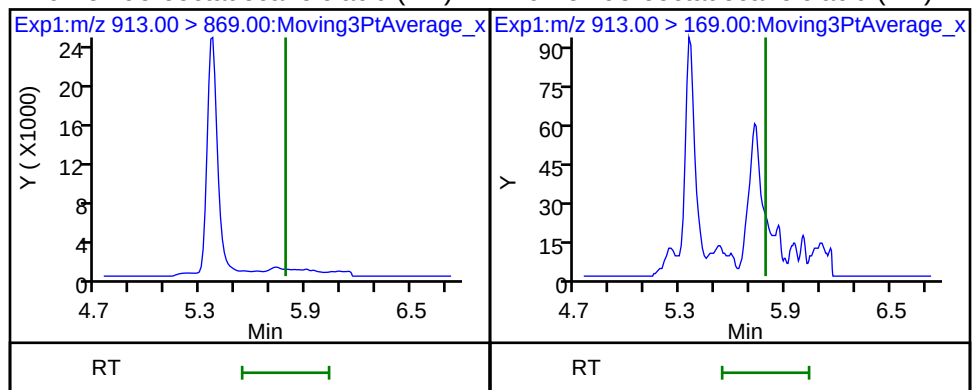
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins Burlington

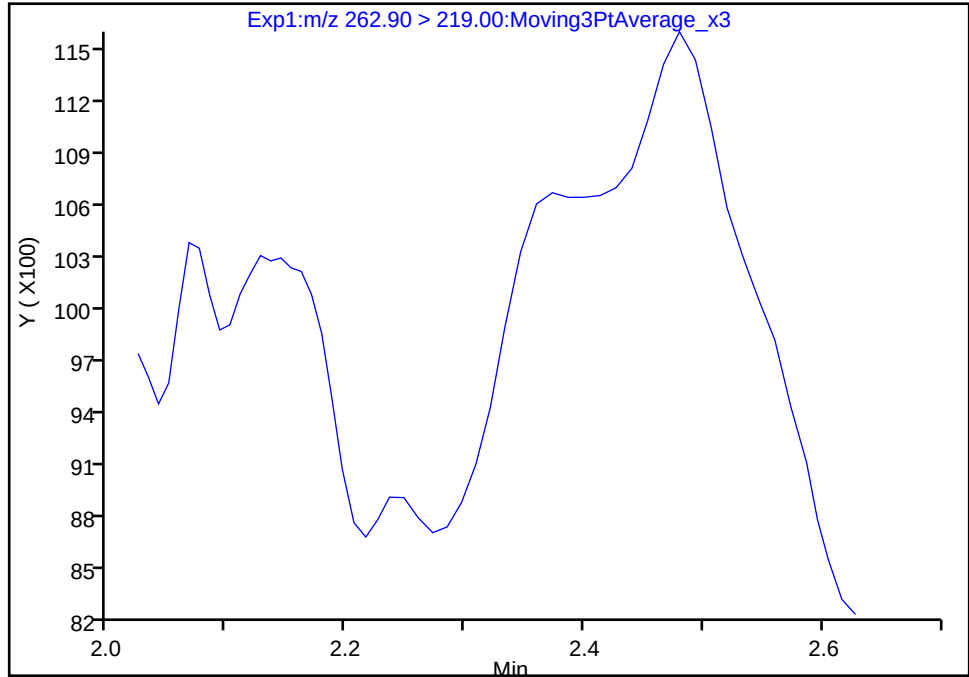
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

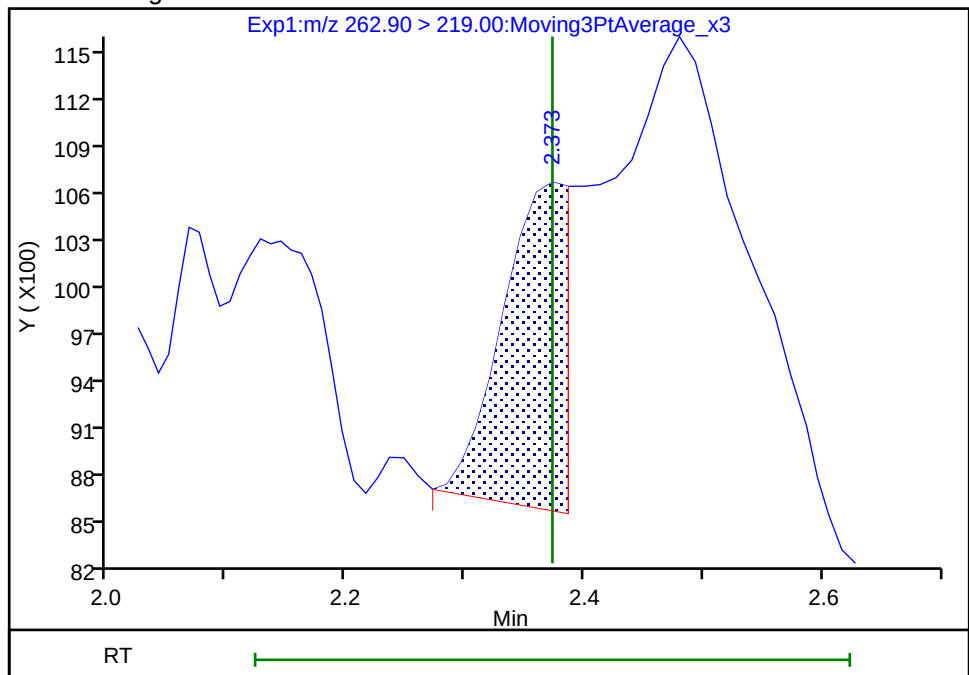
Signal: 1

Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results



RT: 2.37
Area: 7553
Amount: 0.004433
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:32:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 763 of 978

11/21/2022
4:10 PM

Eurofins Burlington

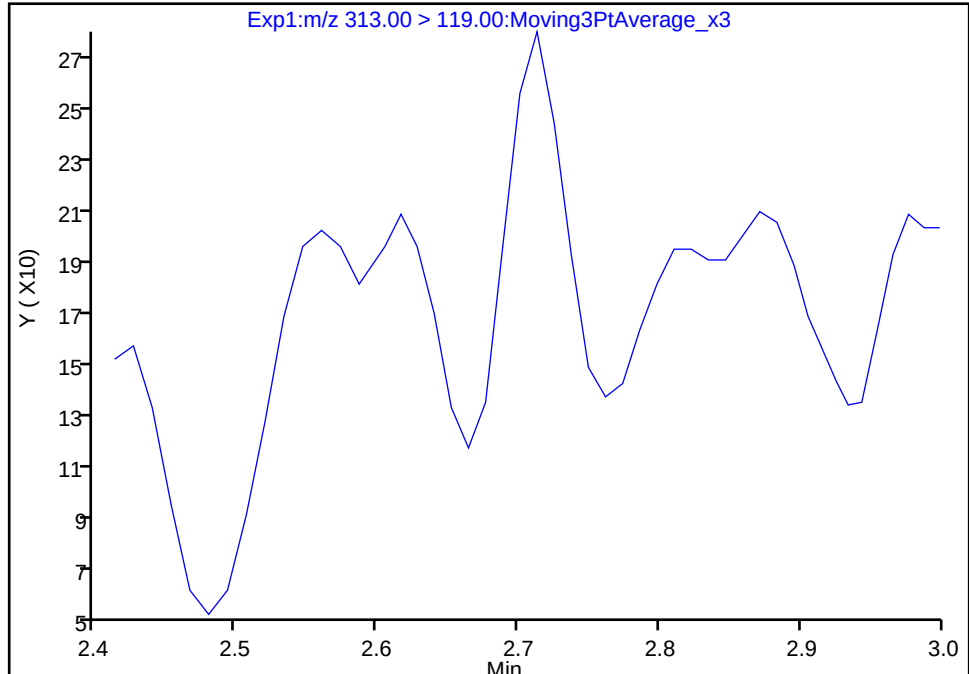
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

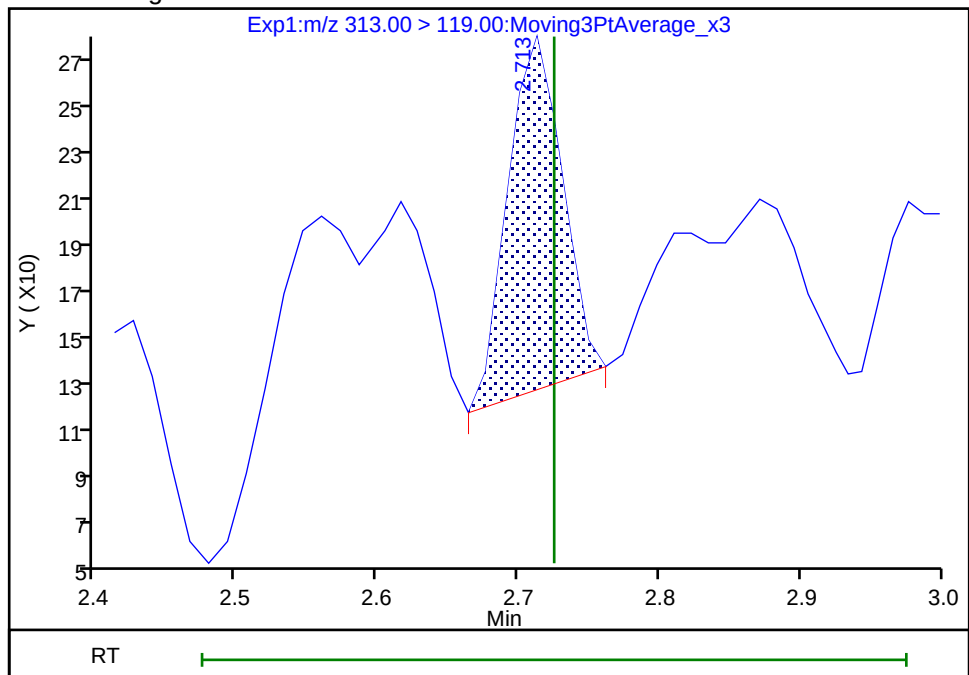
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 390
Amount: 0.002110
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:33:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d

Injection Date: 16-Nov-2022 09:26:38

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

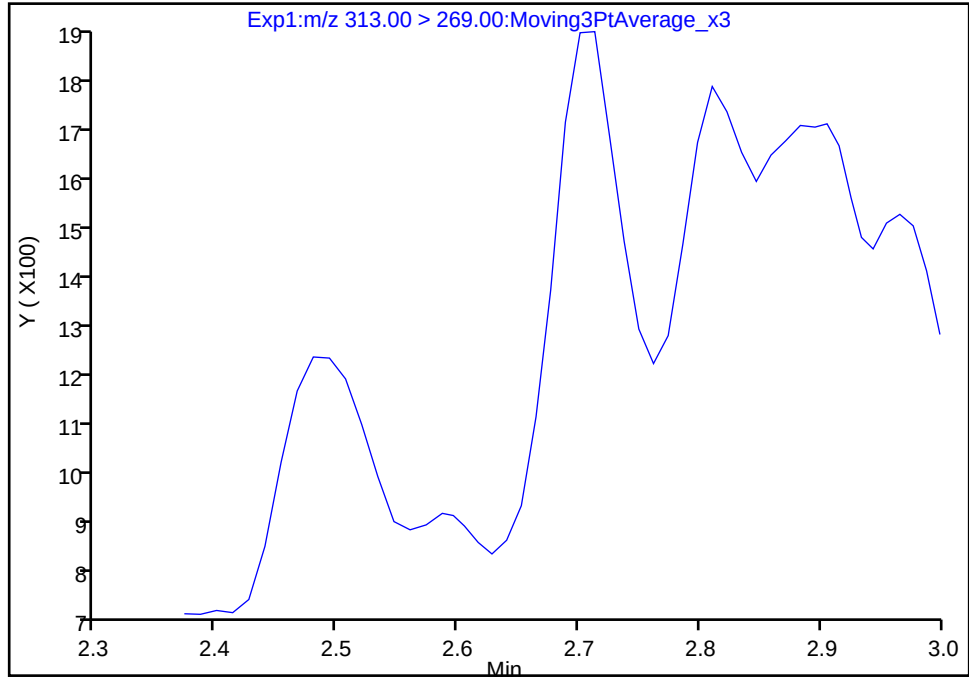
6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

Not Detected

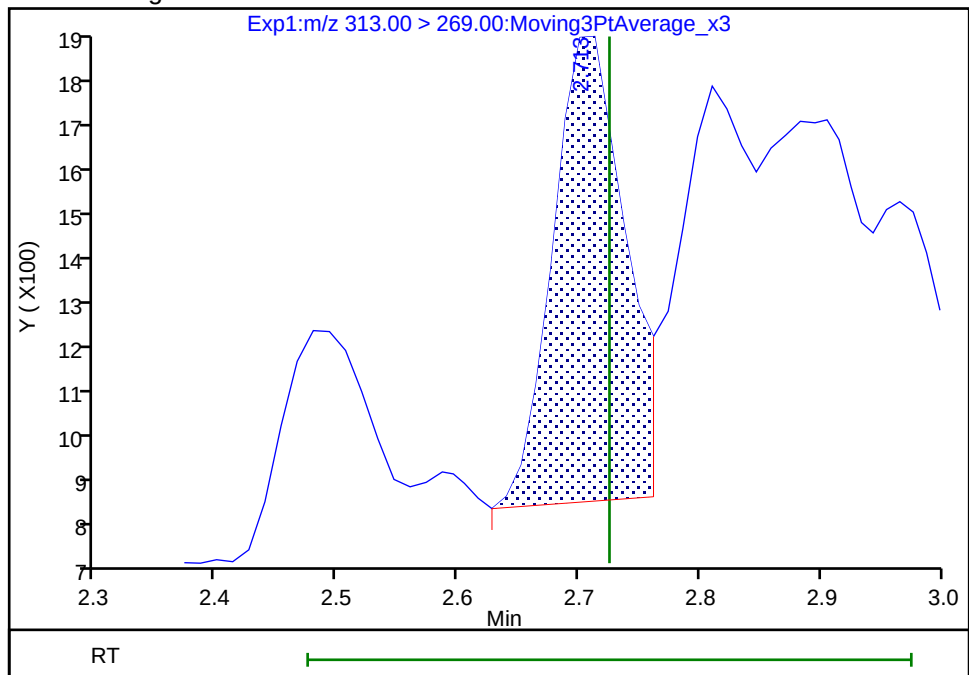
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 3880
Amount: 0.002110
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:33:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

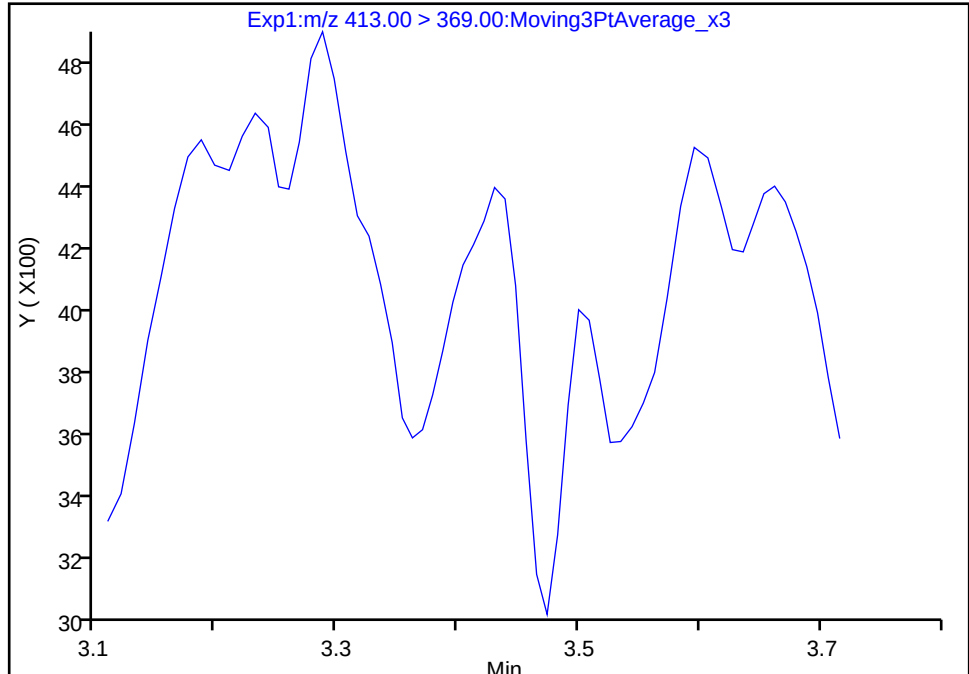
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

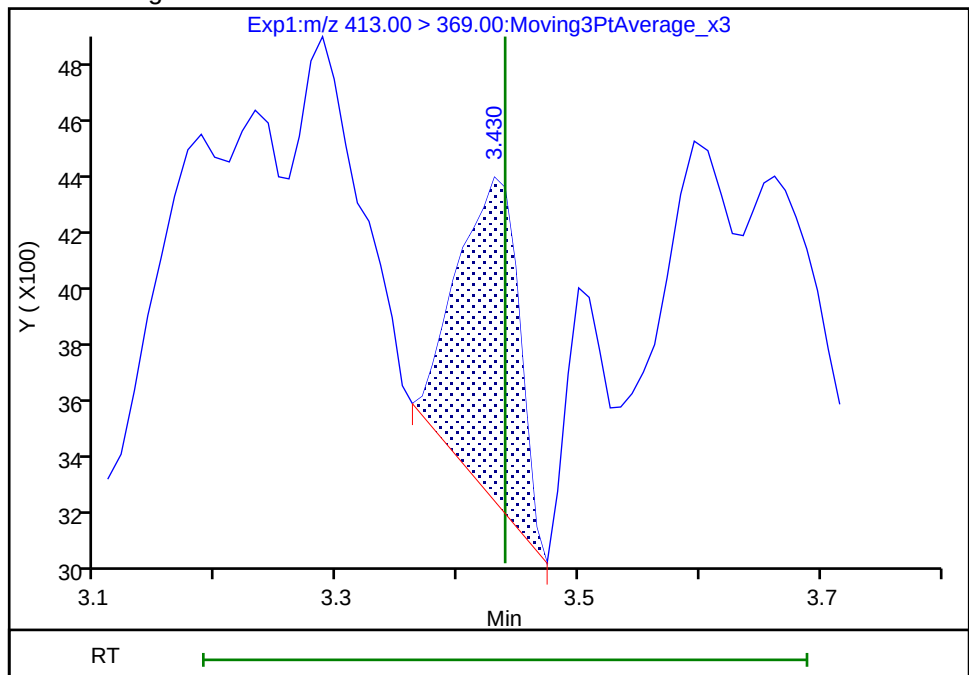
Signal: 1

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.43
Area: 3797
Amount: 0.001700
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:34:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

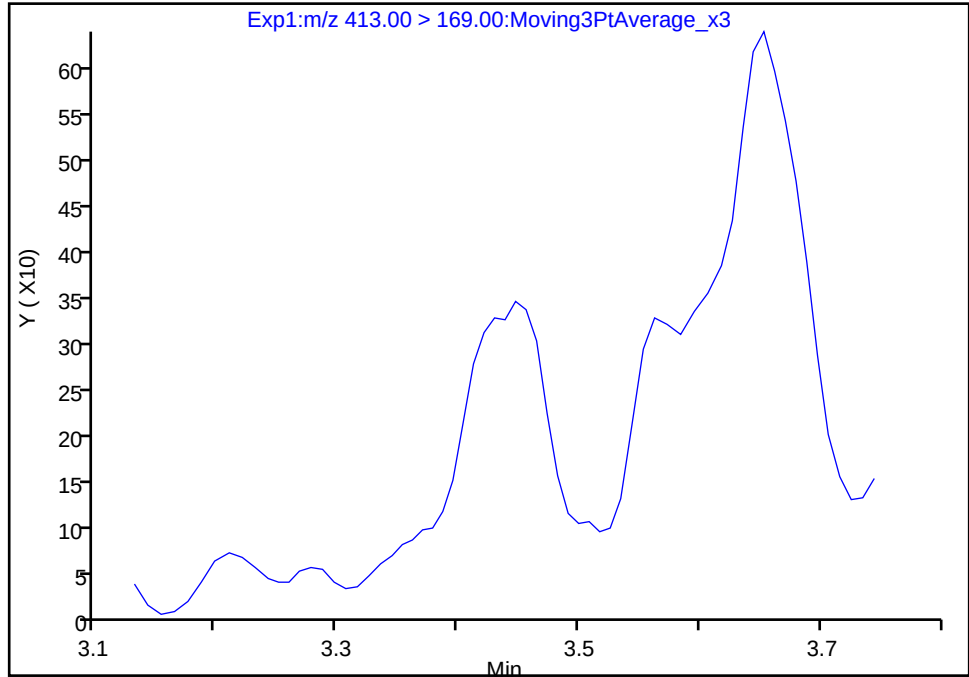
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

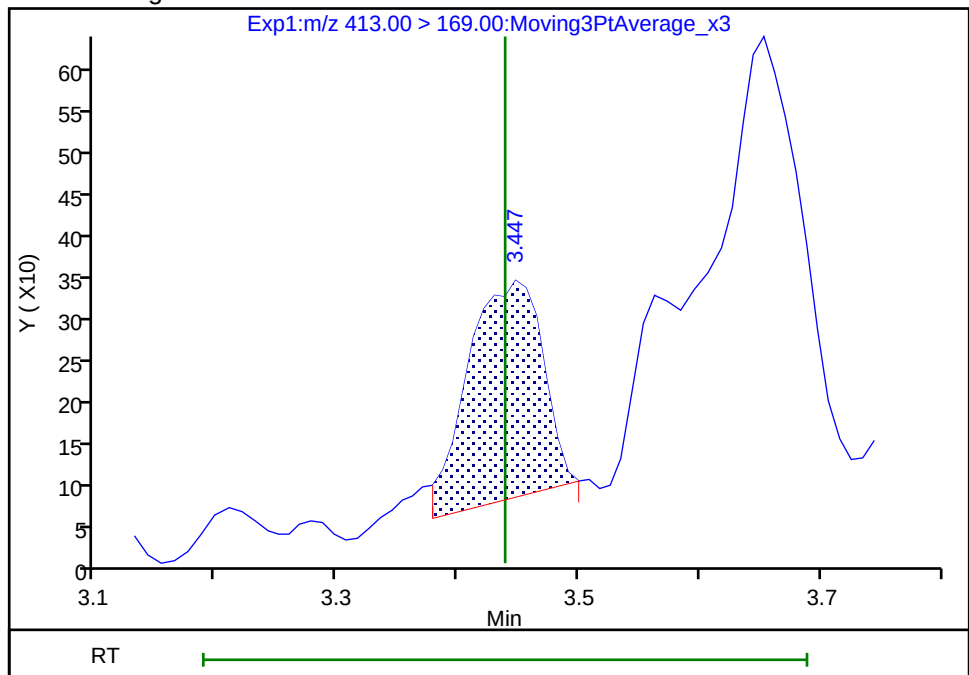
Signal: 2

Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results



RT: 3.45
Area: 1128
Amount: 0.001700
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:34:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 767 of 978

11/21/2022
4:10 PM

Eurofins Burlington

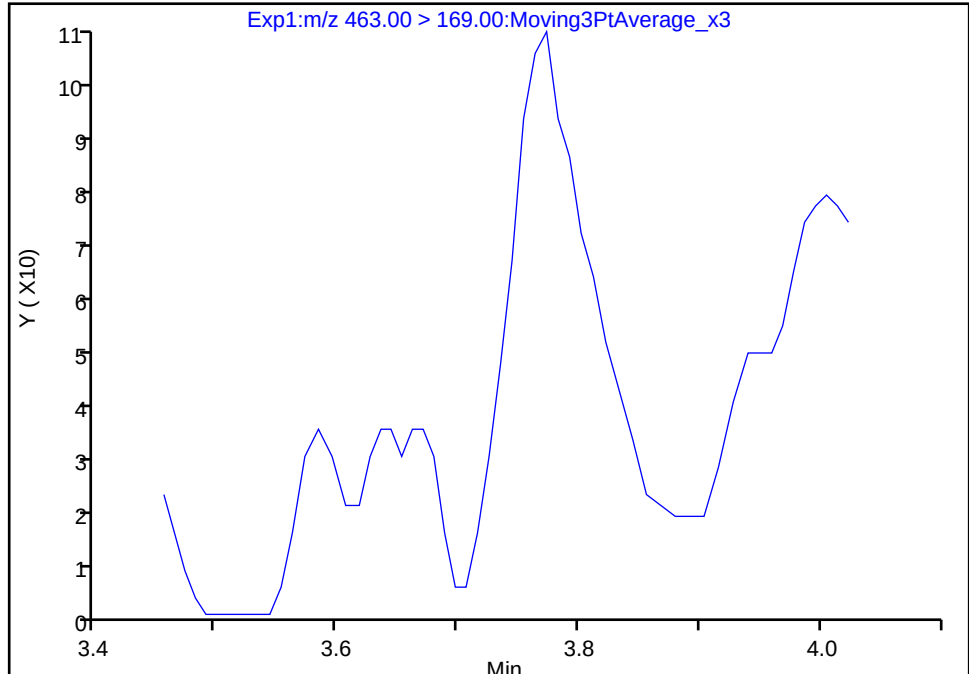
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

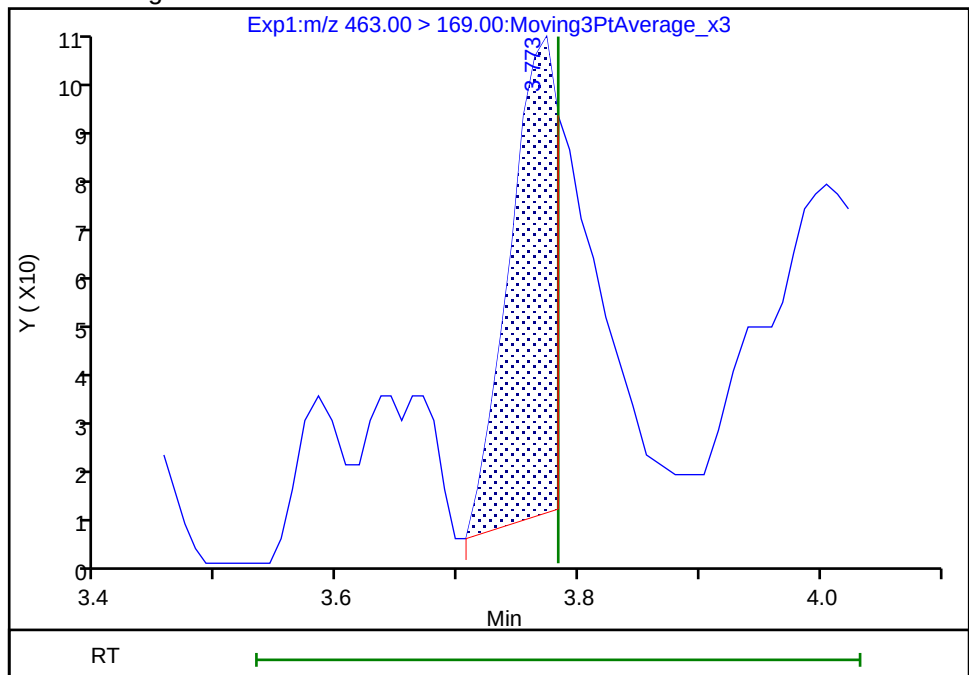
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 251
Amount: 0.001012
Amount Units: ng/ml



Reviewer: Z1IP, 17-Nov-2022 08:08:31
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 768 of 978

11/21/2022
4:10 PM

Eurofins Burlington

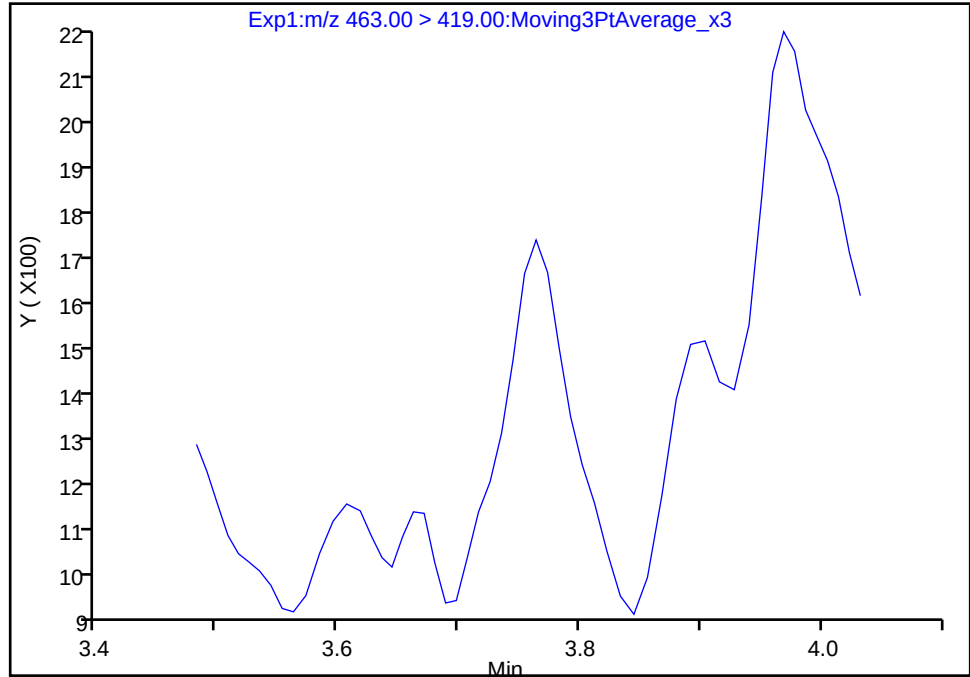
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

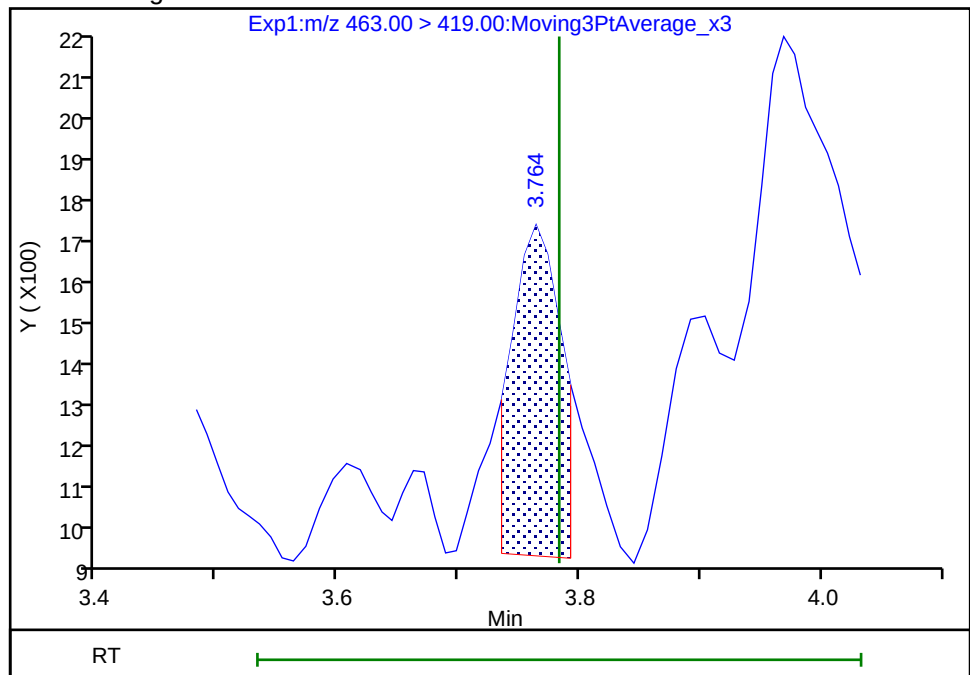
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 1995
Amount: 0.001012
Amount Units: ng/ml



Reviewer: Z1IP, 17-Nov-2022 08:08:34

Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 769 of 978

11/21/2022
4:10 PM

Eurofins Burlington

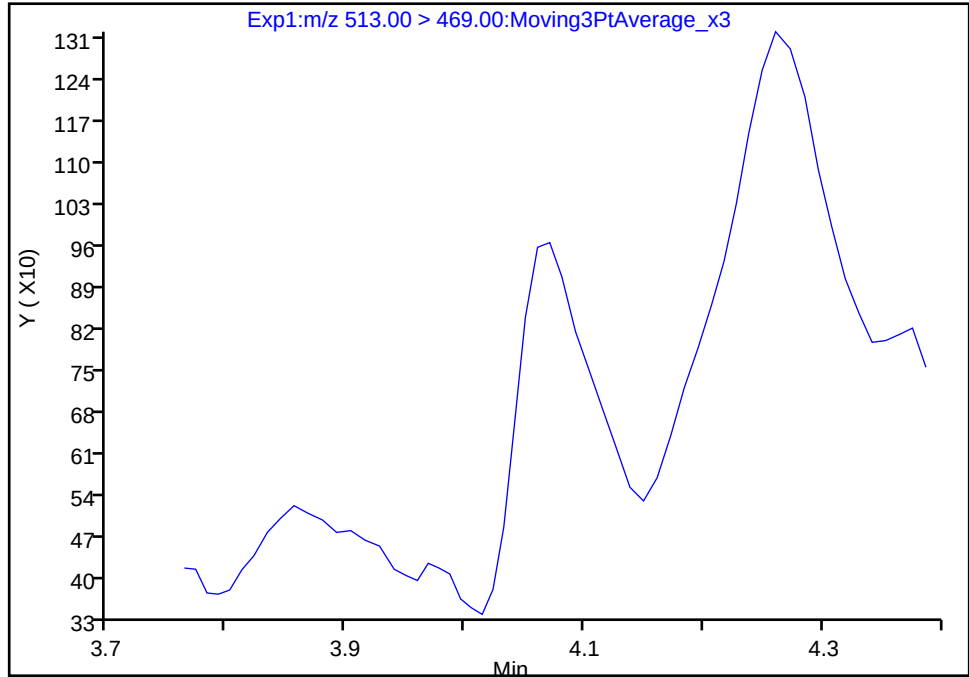
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

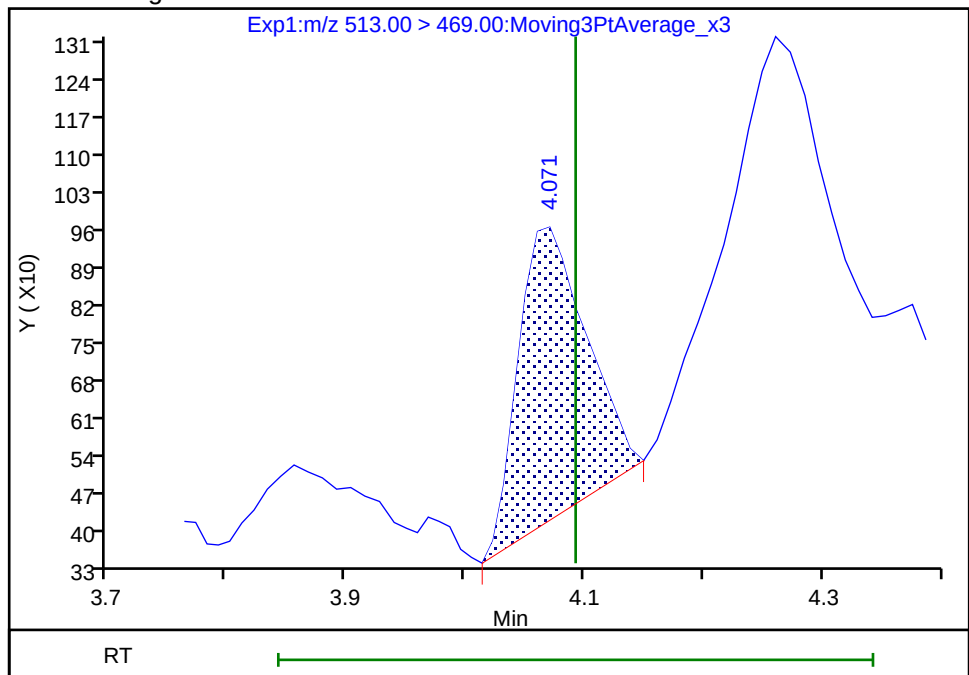
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.07
Area: 2174
Amount: 0.000990
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:36:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 770 of 978

11/21/2022
4:10 PM

Eurofins Burlington

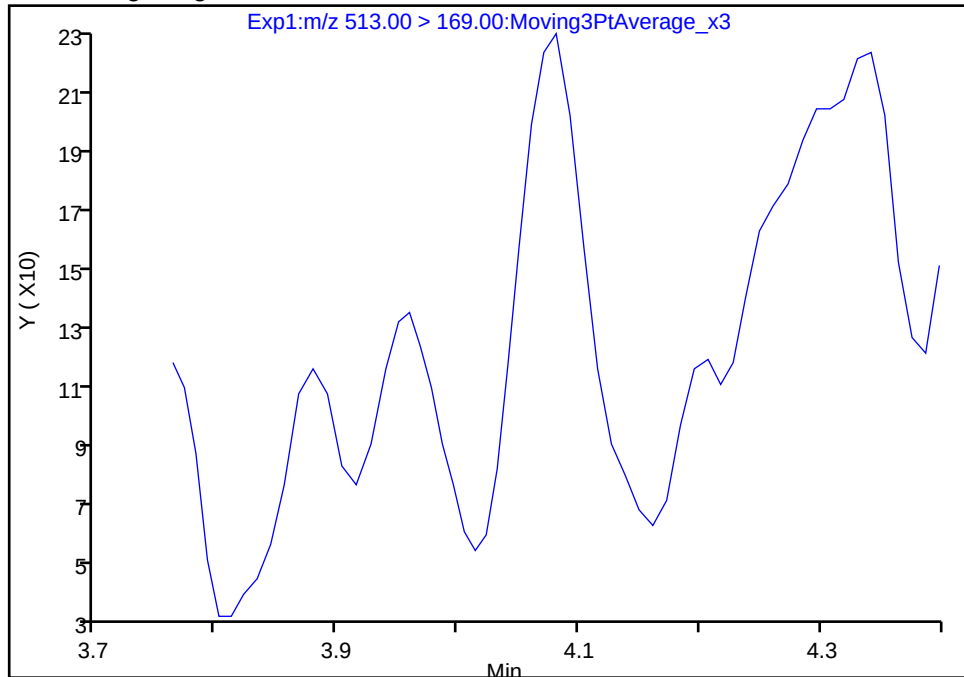
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

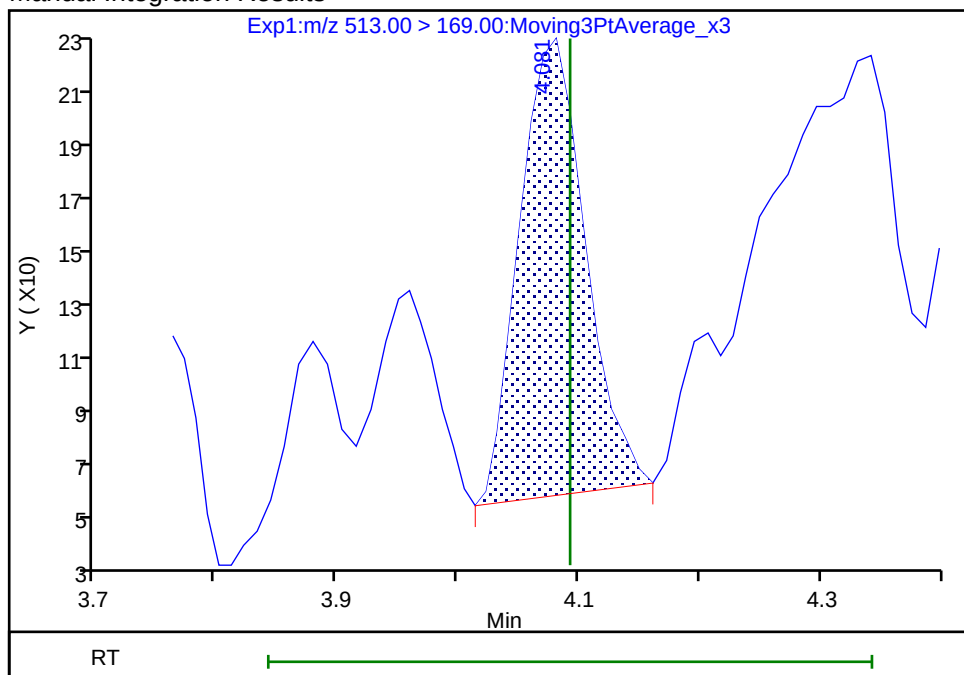
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.08
Area: 612
Amount: 0.000990
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:36:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 771 of 978

11/21/2022
4:10 PM

Eurofins Burlington

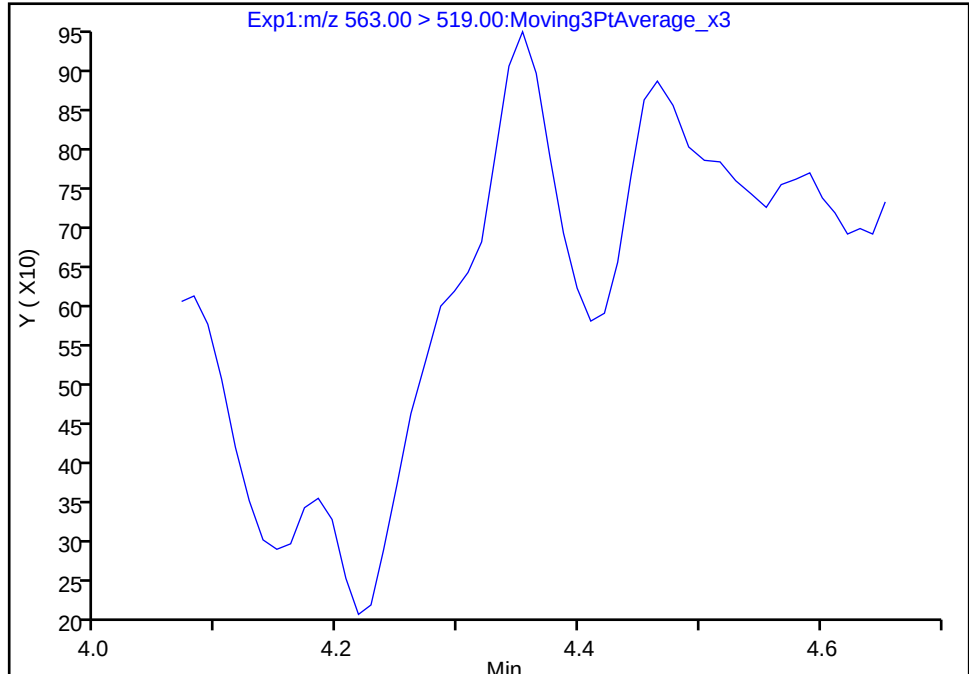
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

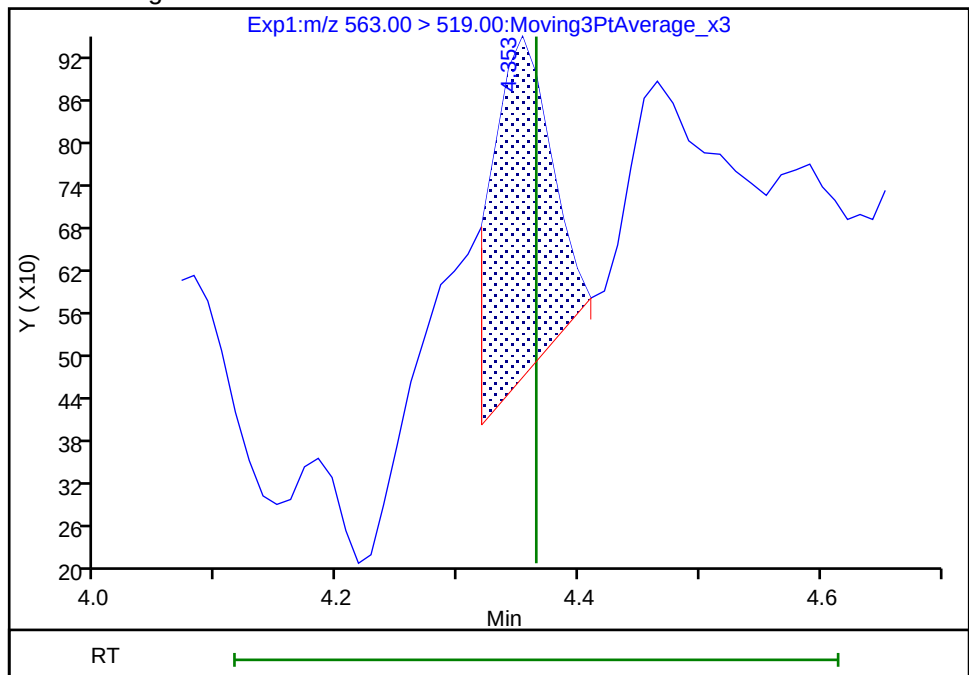
Signal: 1

Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results



RT: 4.35
Area: 1594
Amount: 0.000870
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:37:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 772 of 978

11/21/2022
4:10 PM

Eurofins Burlington

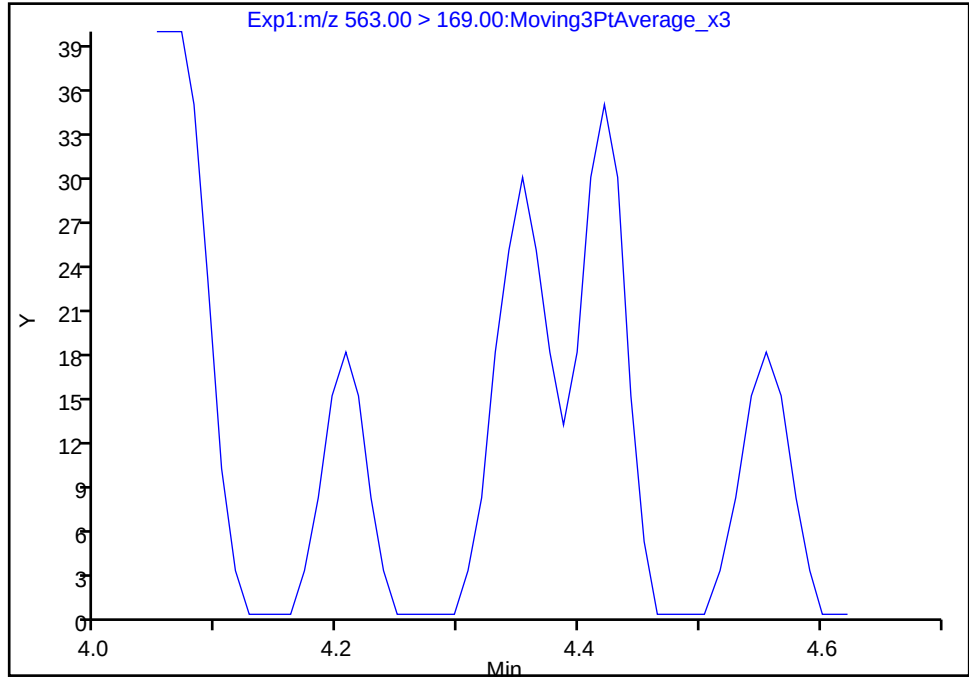
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

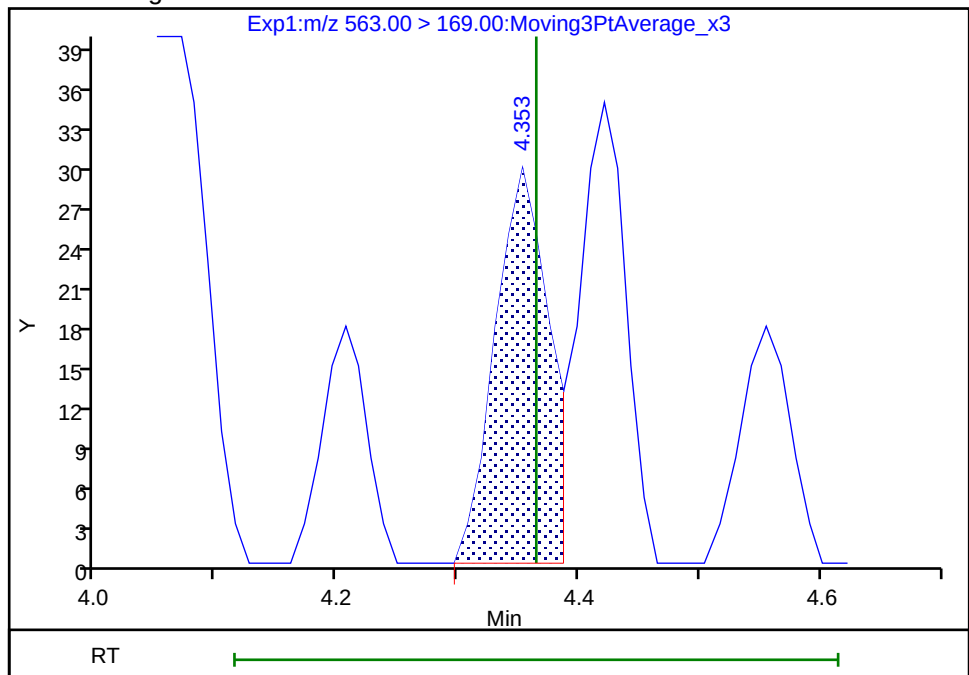
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 90
Amount: 0.000870
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:37:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 773 of 978

11/21/2022
4:10 PM

Eurofins Burlington

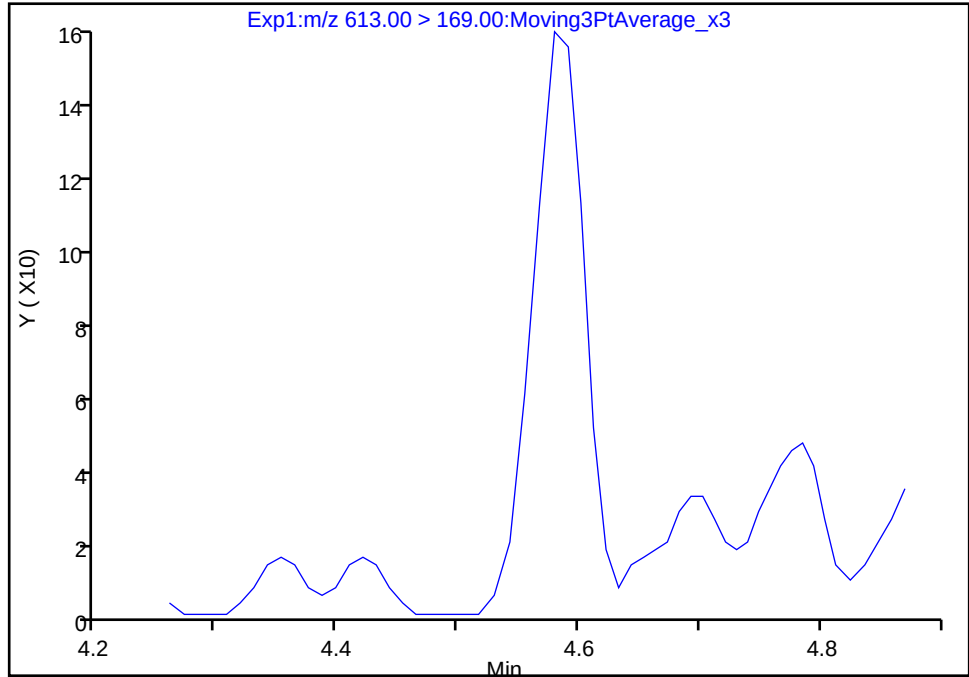
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

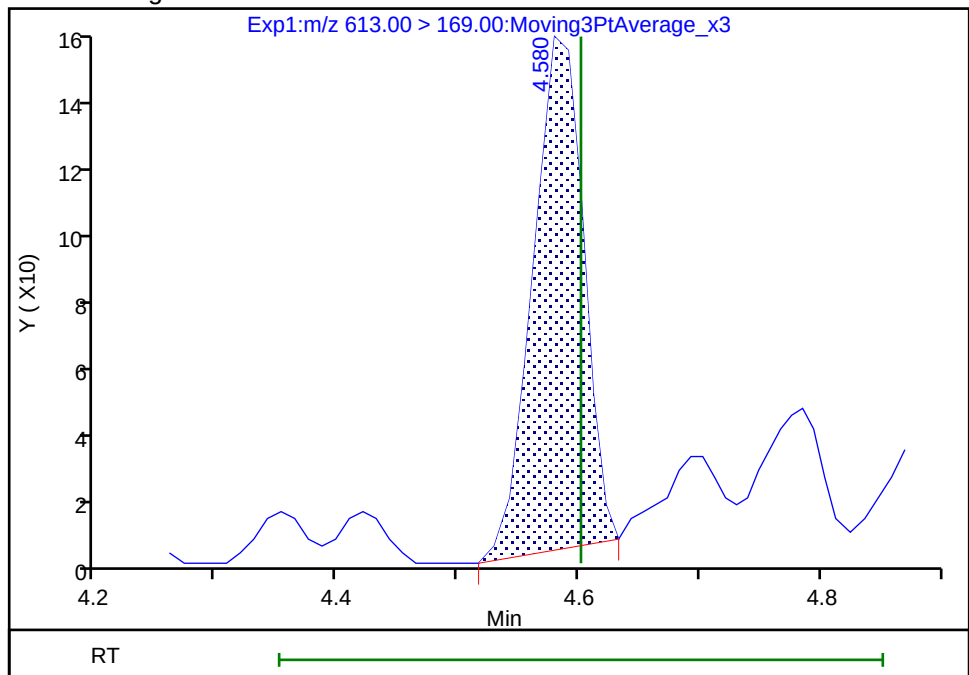
Not Detected
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 434
Amount: 0.001018
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:37:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d

Injection Date: 16-Nov-2022 09:26:38

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

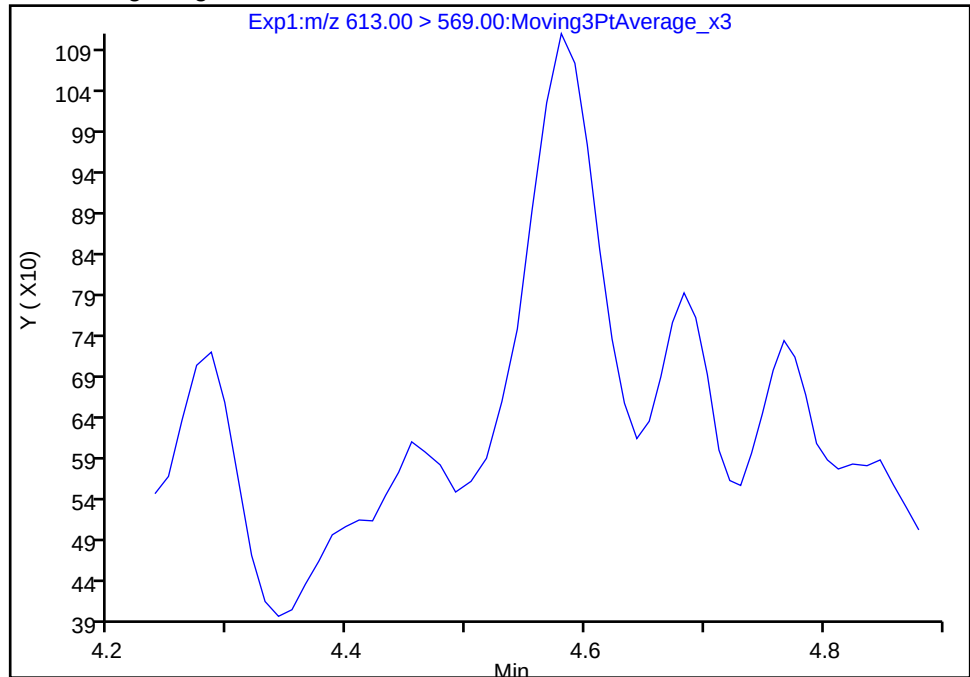
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

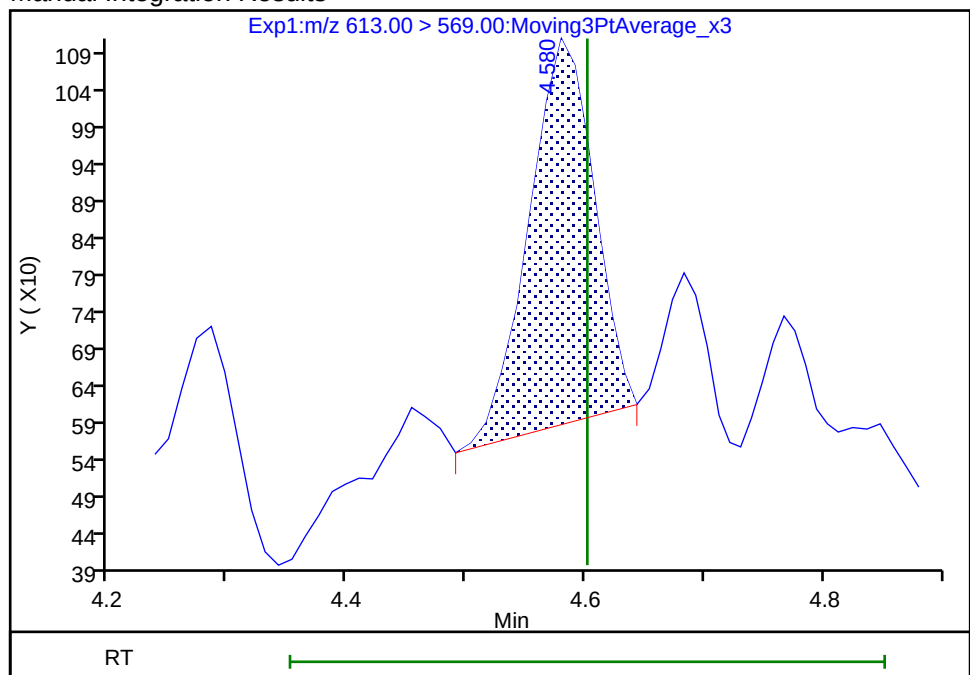
Not Detected

Expected RT: 4.60

Processing Integration Results



Manual Integration Results



RT: 4.58

Area: 1973

Amount: 0.001018

Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:37:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

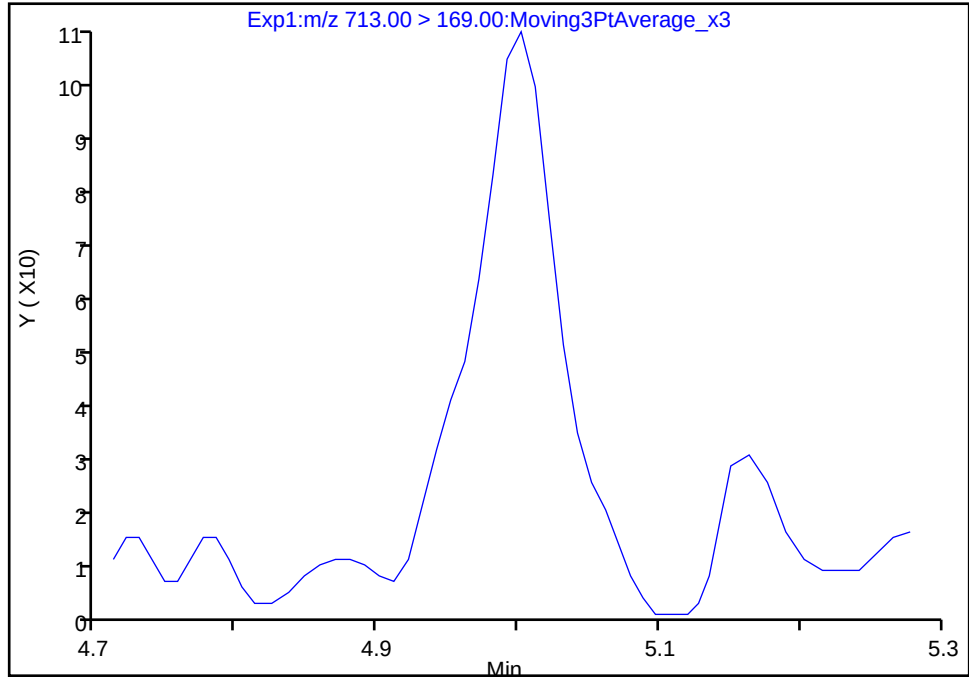
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

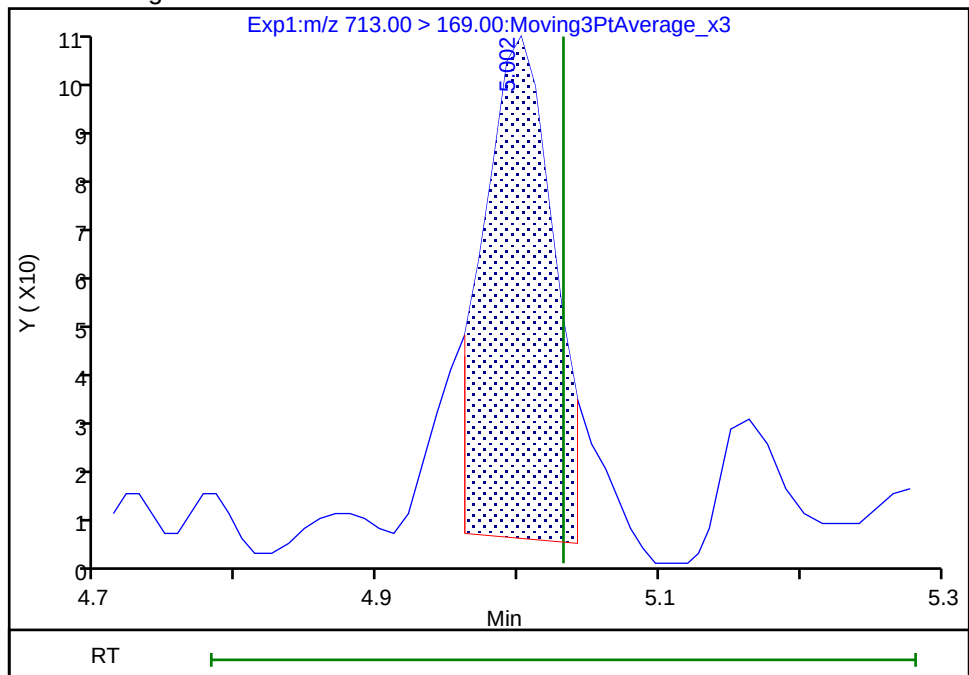
Signal: 1

Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:38:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

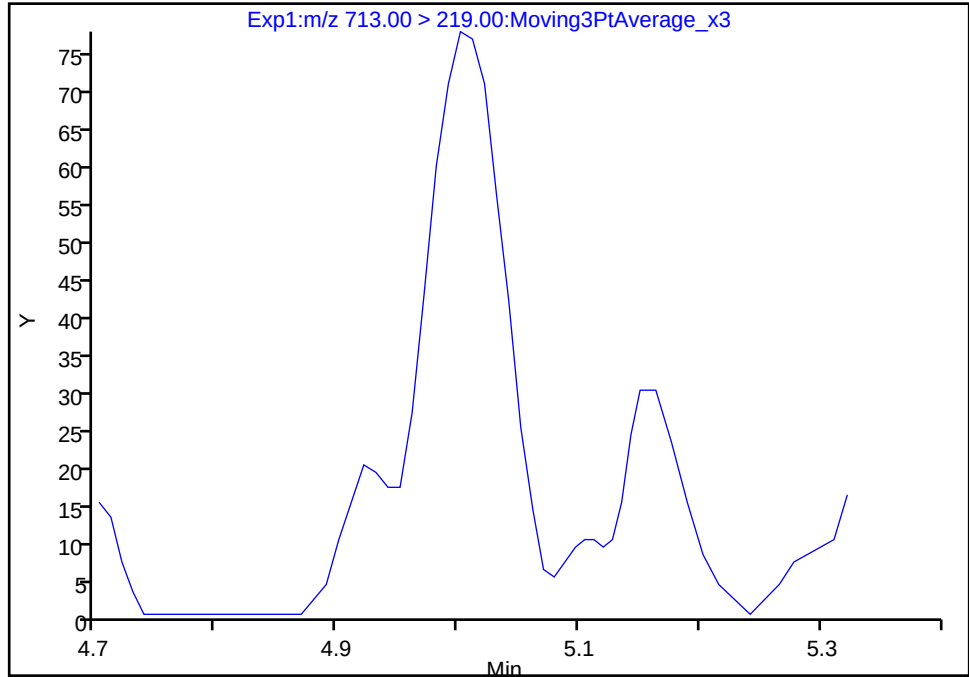
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

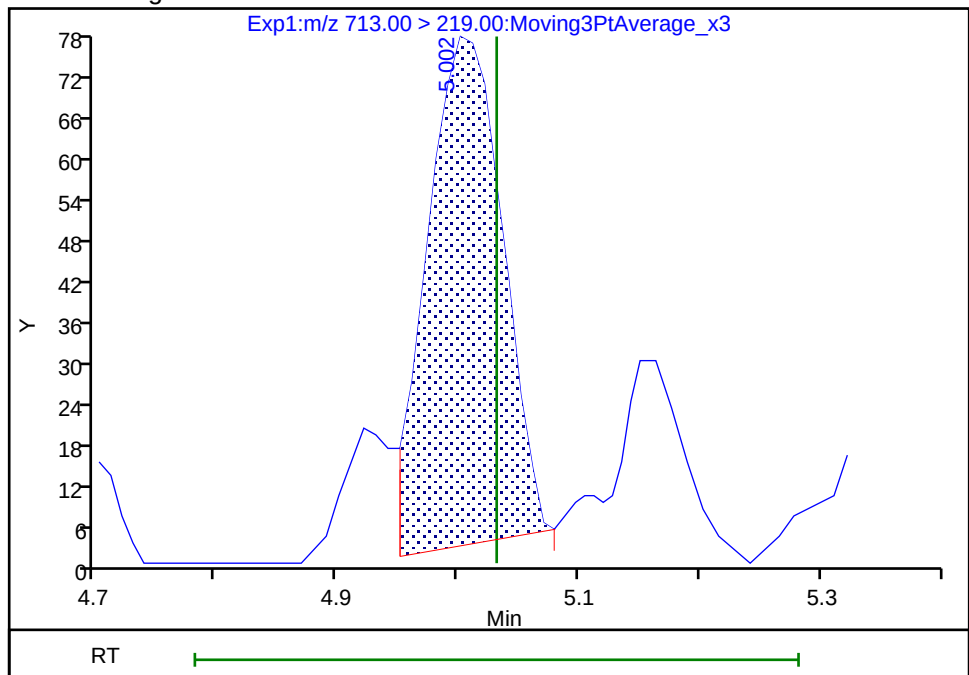
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 324
Amount: 0.001335
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:38:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 777 of 978

11/21/2022
4:10 PM

Eurofins Burlington

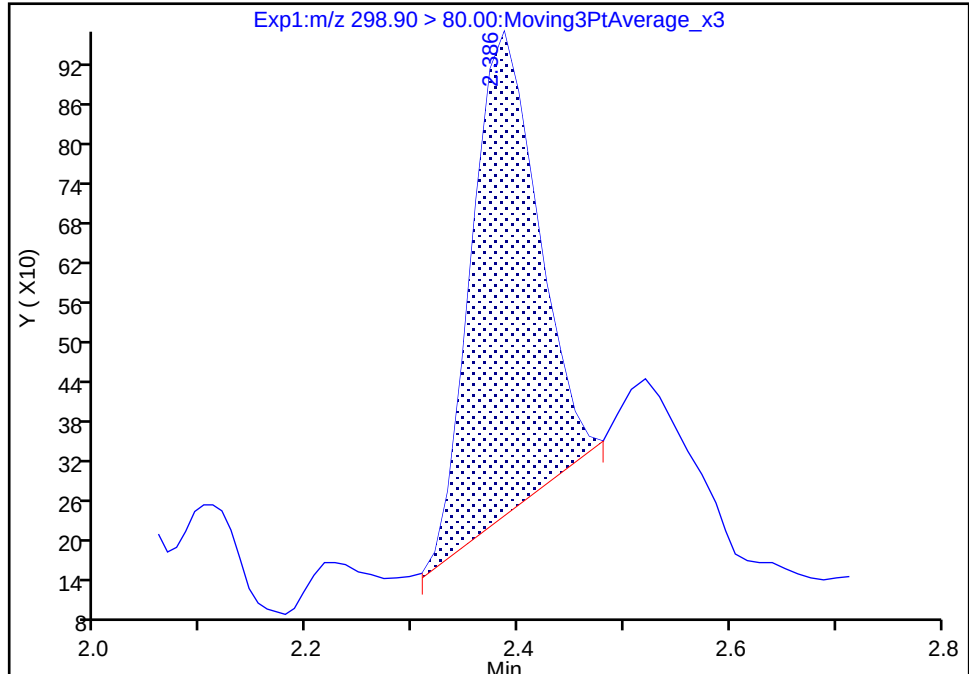
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

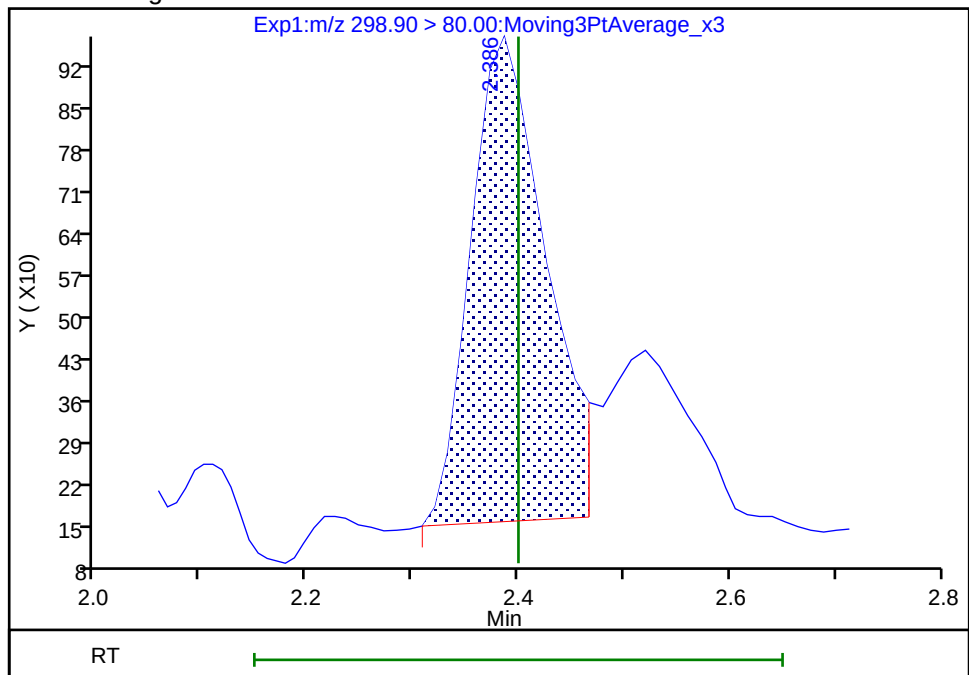
RT: 2.39
Area: 3208
Amount: 0.001587
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 3961
Amount: 0.001959
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:32:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

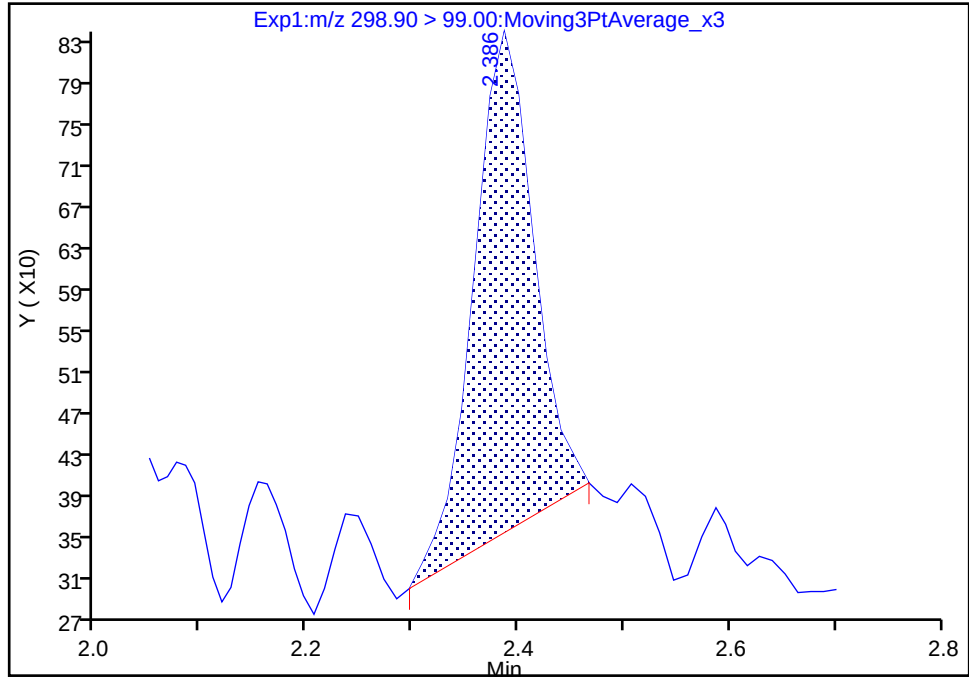
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

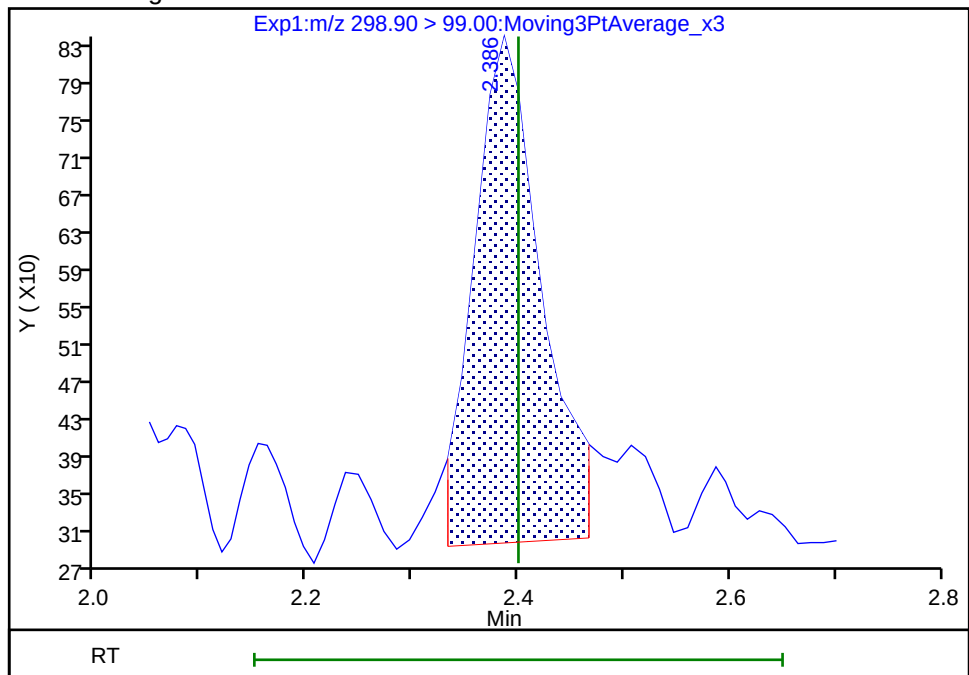
RT: 2.39
Area: 1912
Amount: 0.001587
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 2364
Amount: 0.001959
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:32:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 779 of 97811/21/2022
4:10 PM

Eurofins Burlington

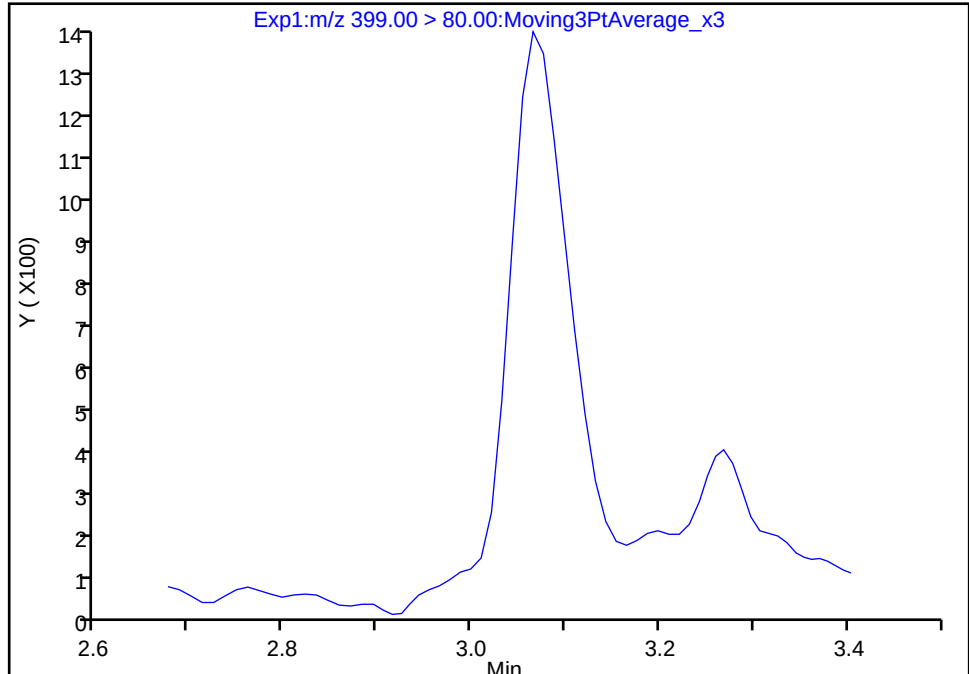
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

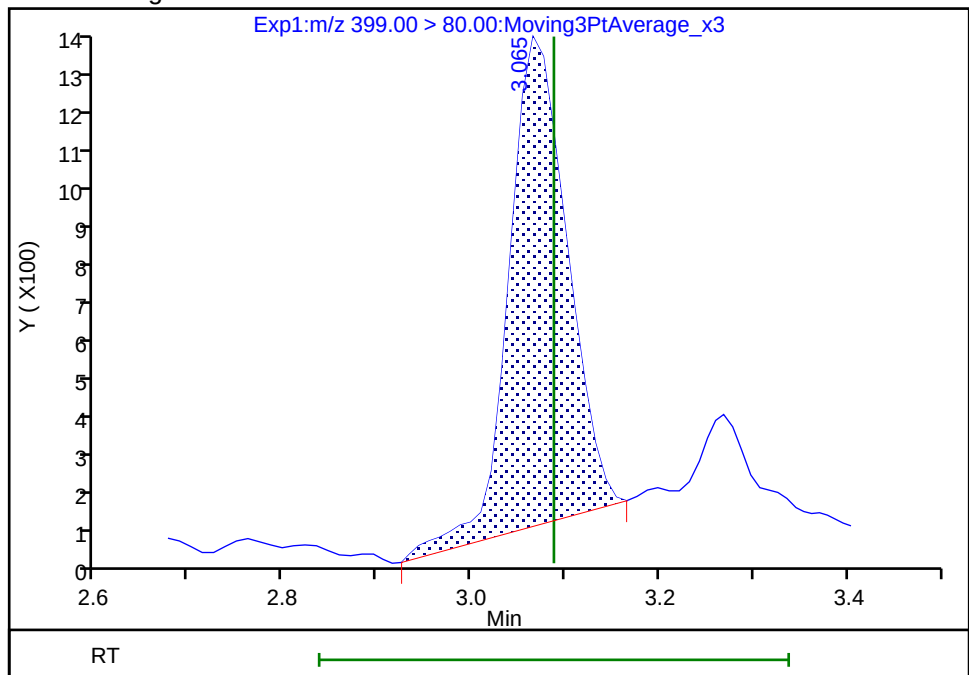
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 5319
Amount: 0.003568
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:33:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 780 of 978

11/21/2022
4:10 PM

Eurofins Burlington

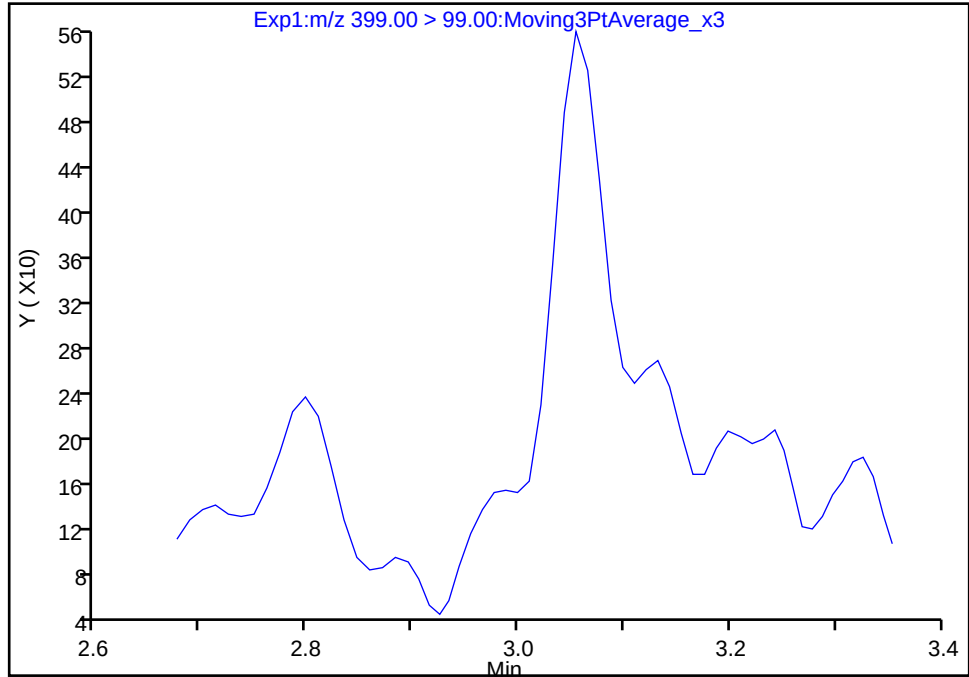
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

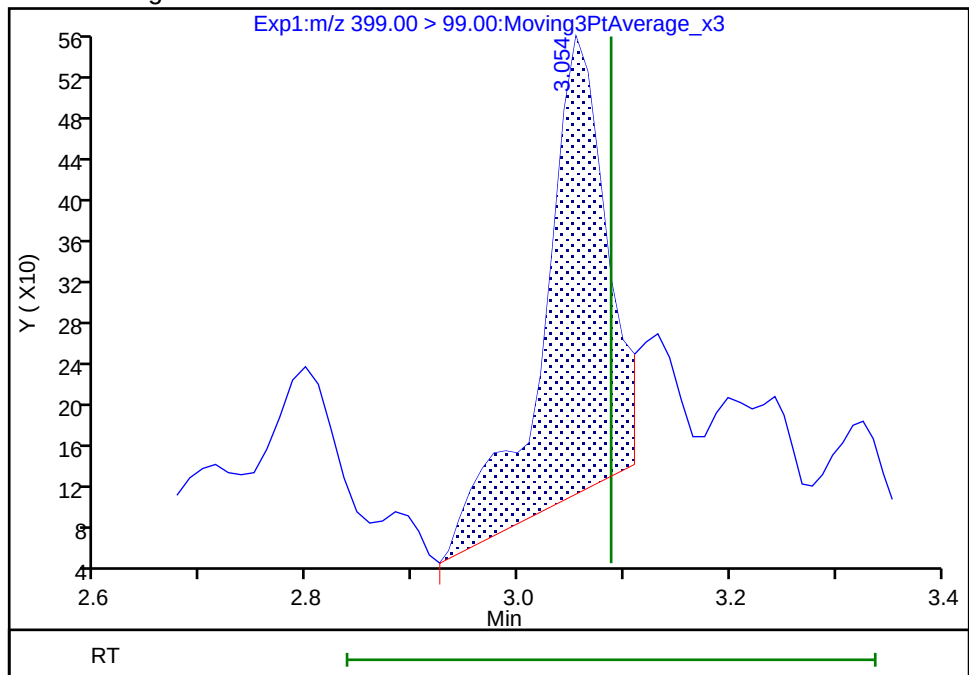
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.05
Area: 1827
Amount: 0.003568
Amount Units: ng/ml



Reviewer: nampitakw, 17-Nov-2022 07:33:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 781 of 978

11/21/2022
4:10 PM

Eurofins Burlington

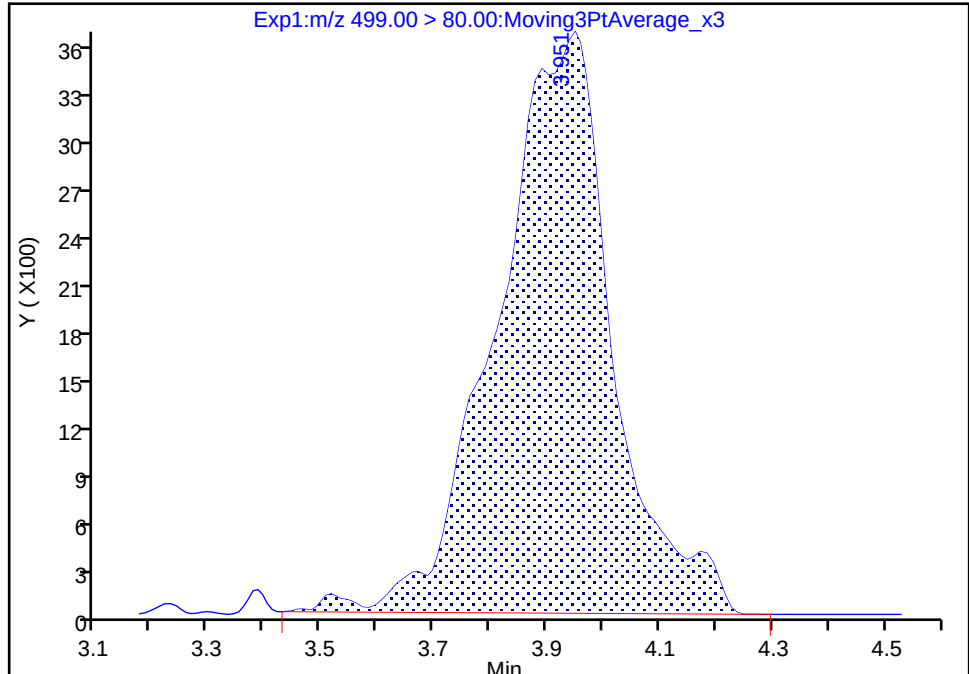
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

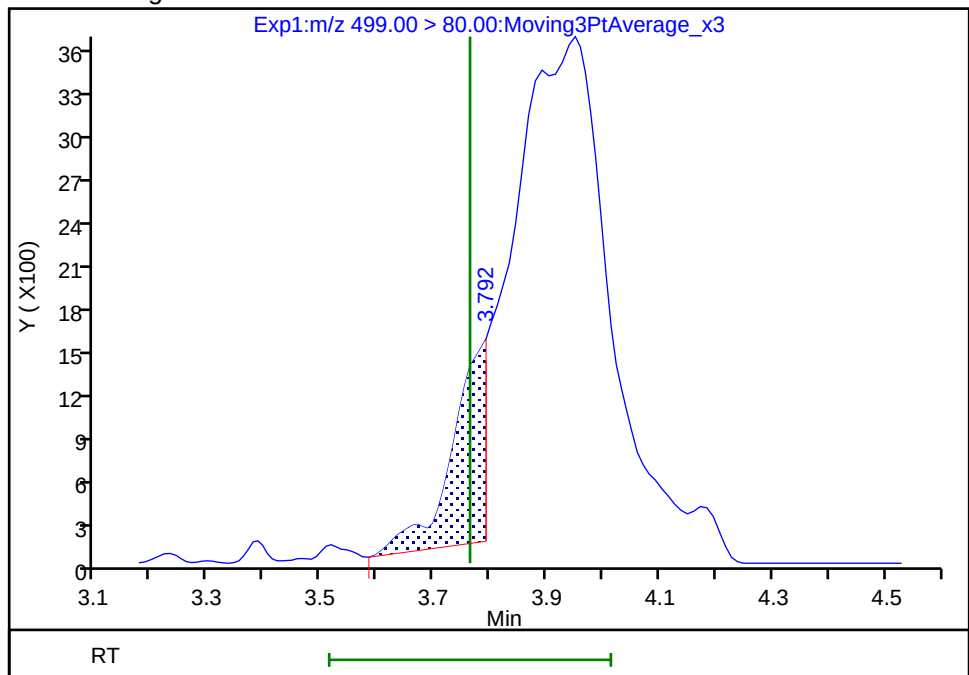
RT: 3.95
Area: 52264
Amount: 0.048245
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 5696
Amount: 0.005258
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:35:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 782 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d

Injection Date: 16-Nov-2022 09:26:38

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)

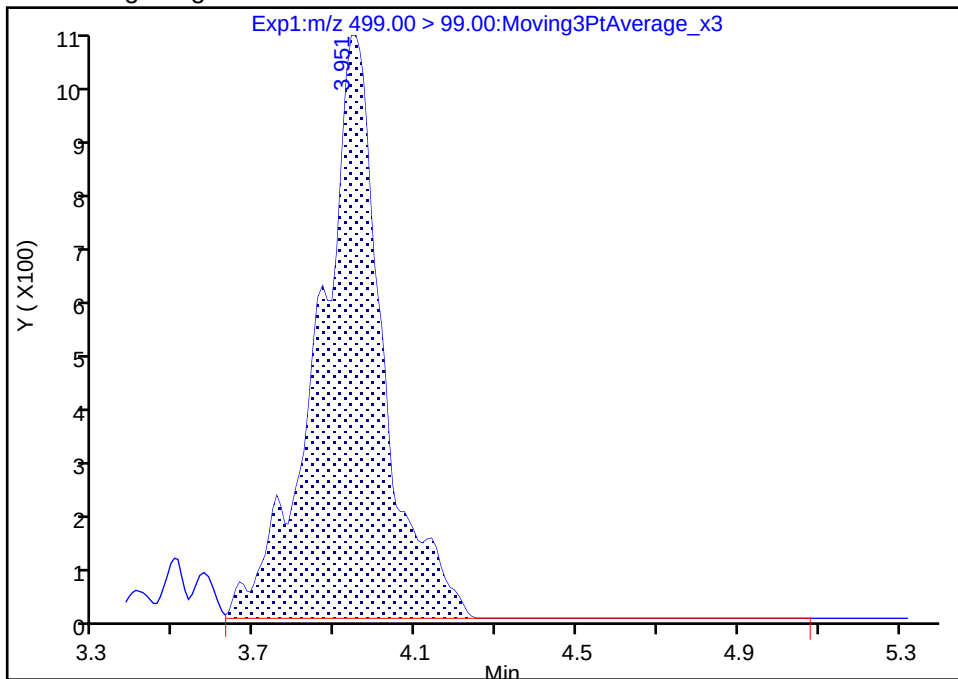
Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

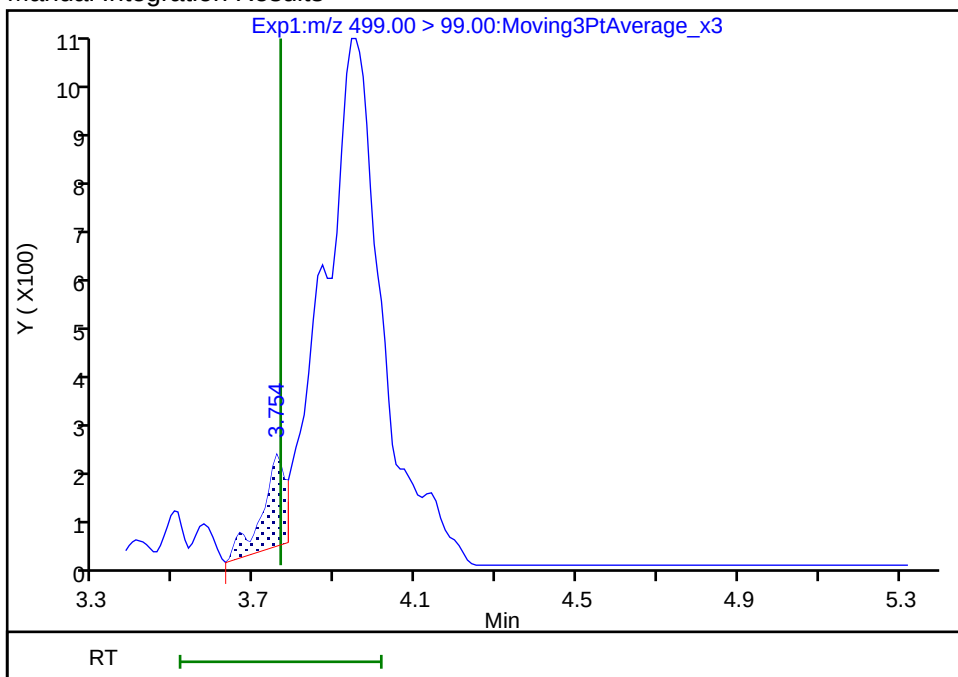
RT: 3.95
Area: 11395
Amount: 0.048245
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 697
Amount: 0.005258
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:35:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

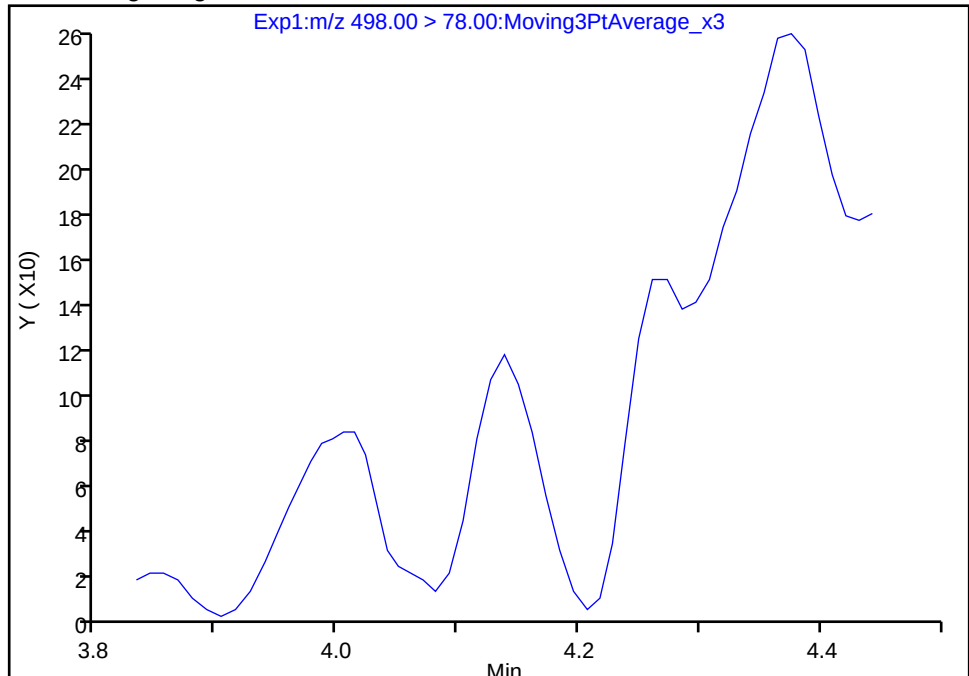
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

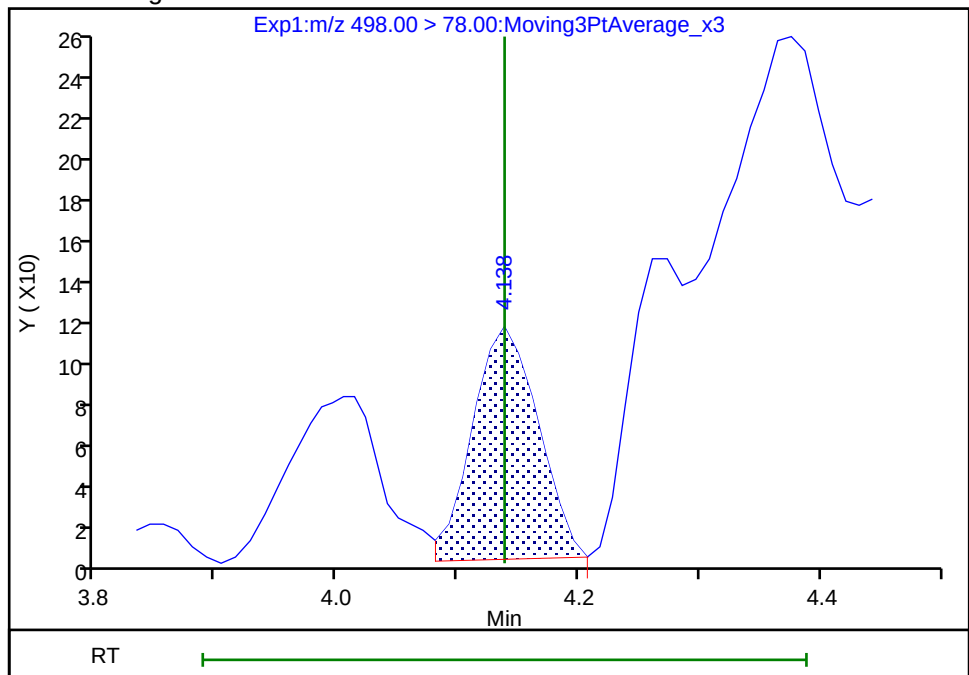
Signal: 1

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.14
Area: 424
Amount: 0.000270
Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:36:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

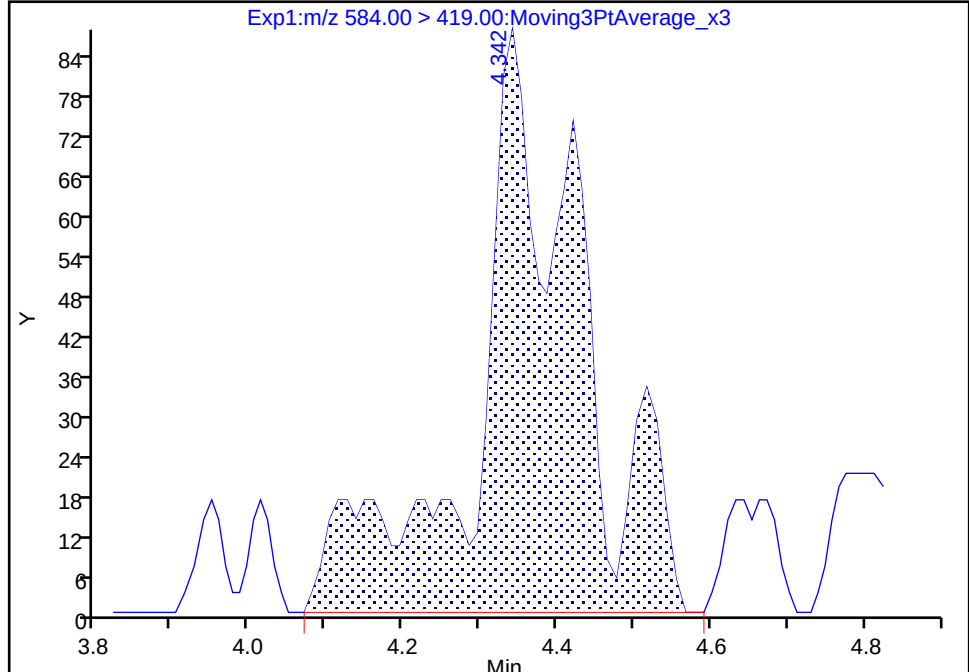
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

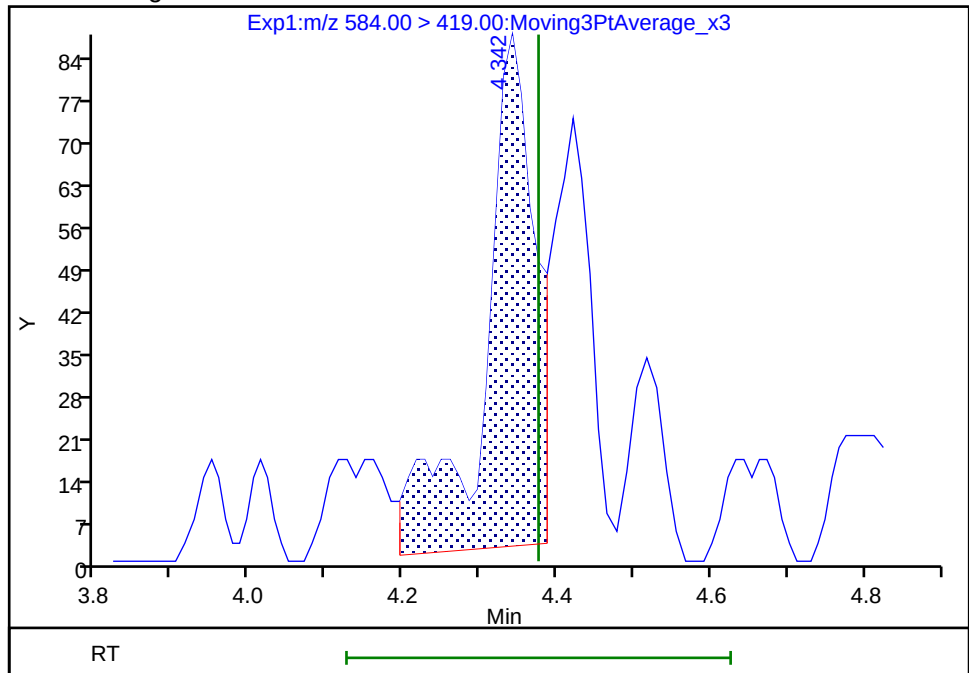
RT: 4.34
Area: 843
Amount: 0.002540
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 383
Amount: 0.001154
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:37:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 785 of 978

11/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d

Injection Date: 16-Nov-2022 09:26:38

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

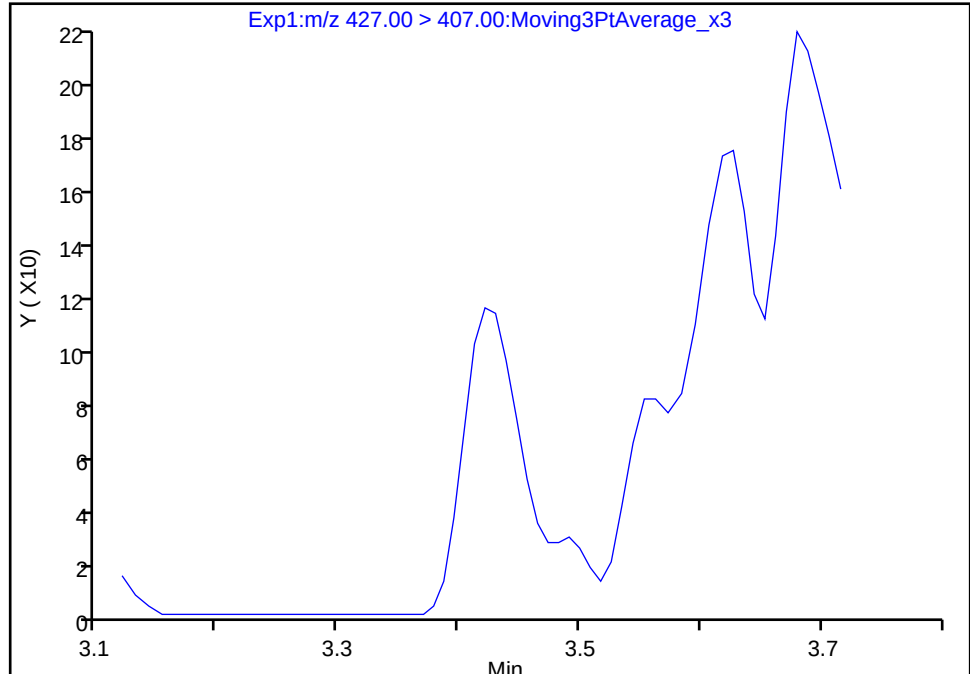
13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

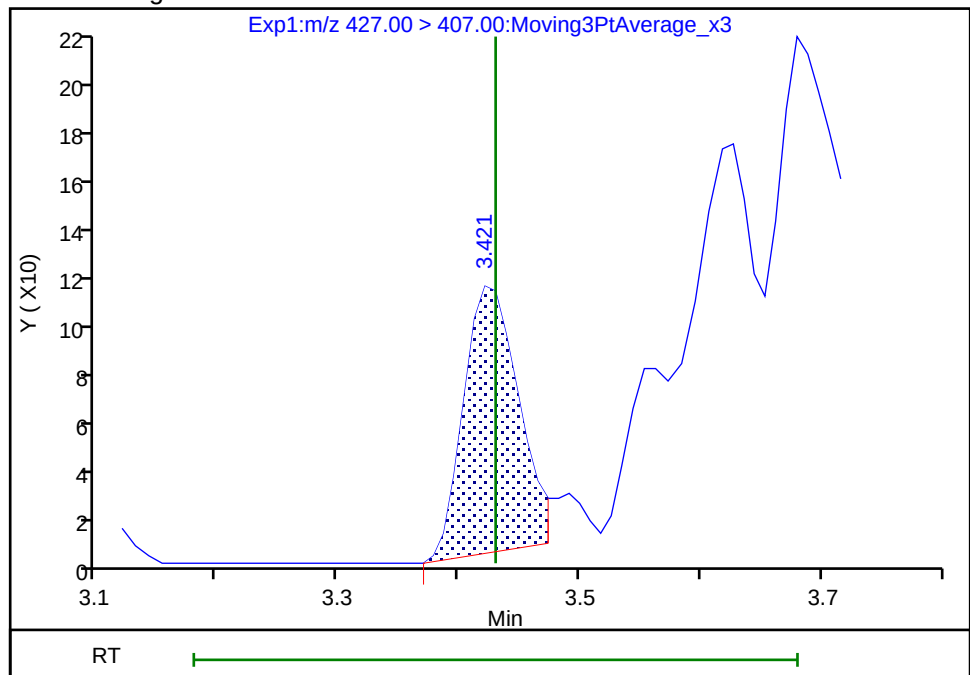
Not Detected

Expected RT: 3.43

Processing Integration Results



Manual Integration Results



RT: 3.42

Area: 335

Amount: 0.000832

Amount Units: ng/ml

Reviewer: nampitakw, 17-Nov-2022 07:34:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

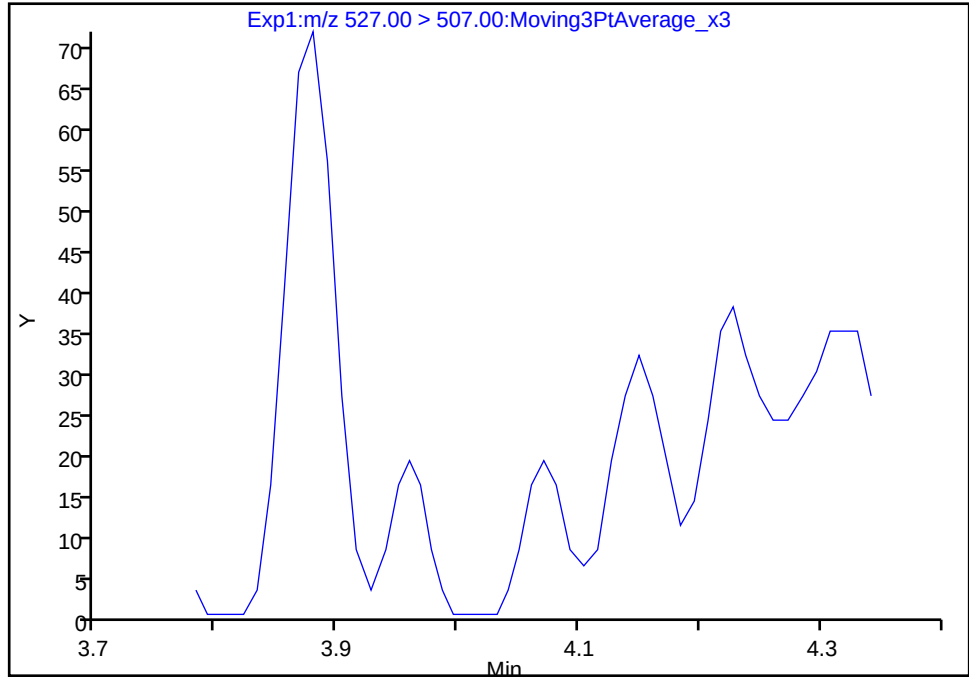
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

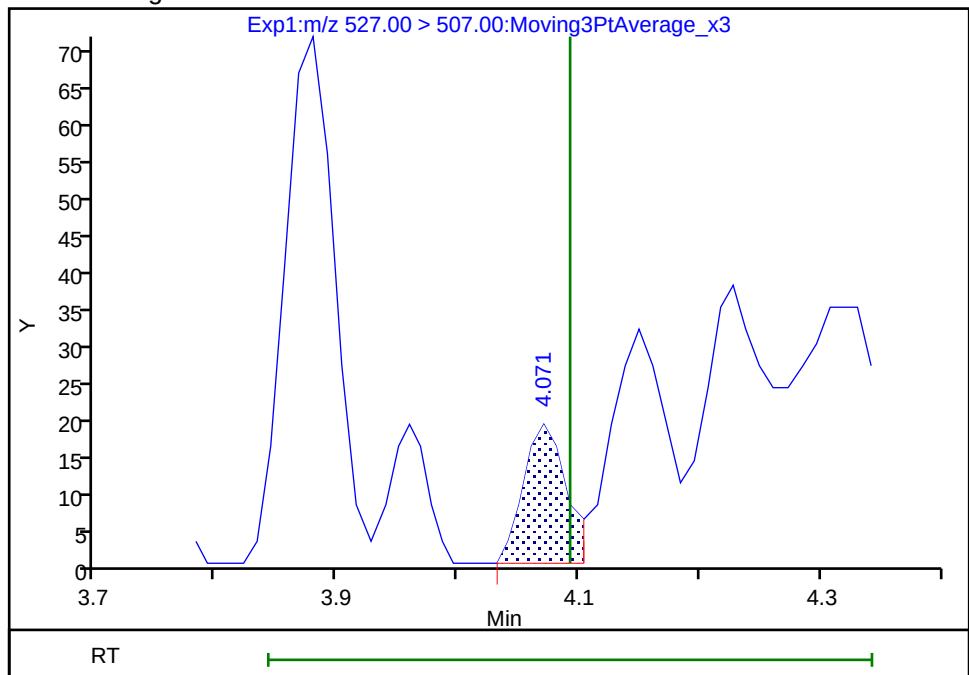
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.07
Area: 45
Amount: 0.000139
Amount Units: ng/ml

Reviewer: Z1IP, 17-Nov-2022 08:08:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins Burlington

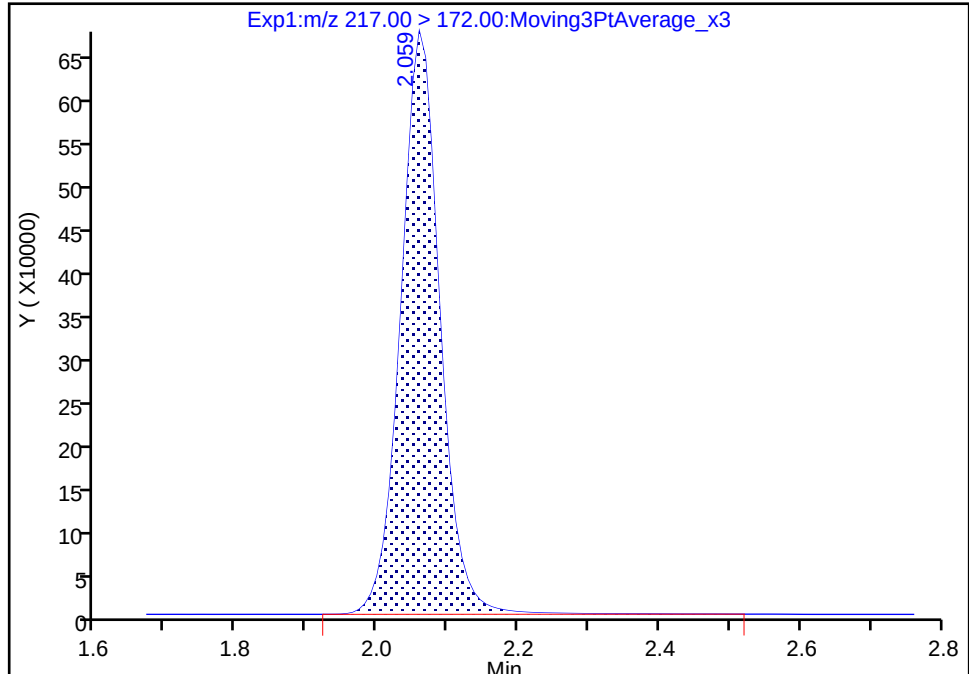
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

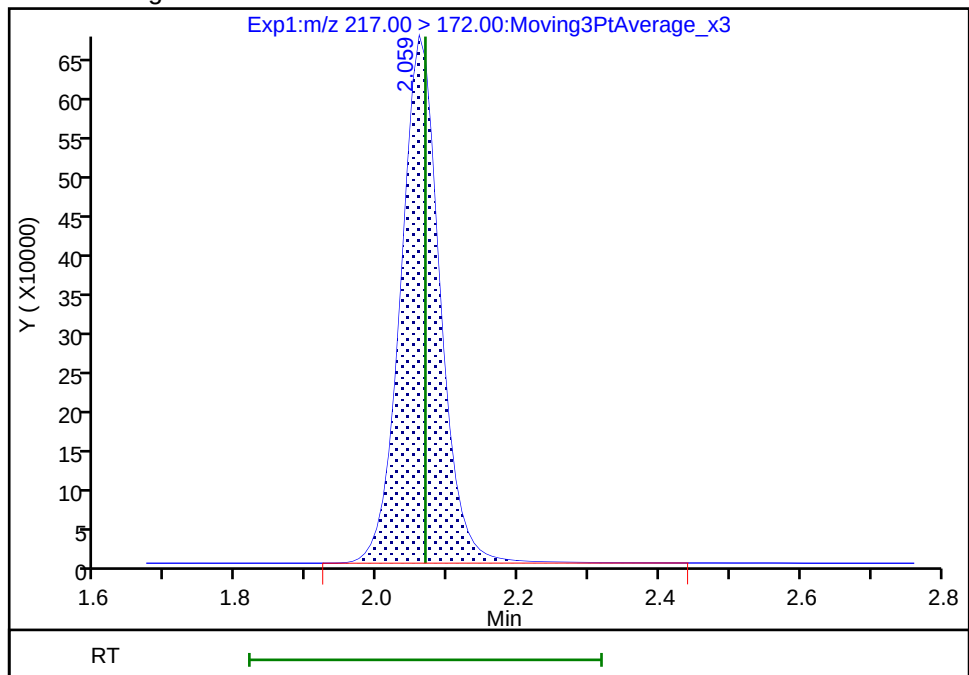
RT: 2.06
Area: 2619613
Amount: 1.159344
Amount Units: ng/ml

Processing Integration Results



RT: 2.06
Area: 2617855
Amount: 1.158566
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:27:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

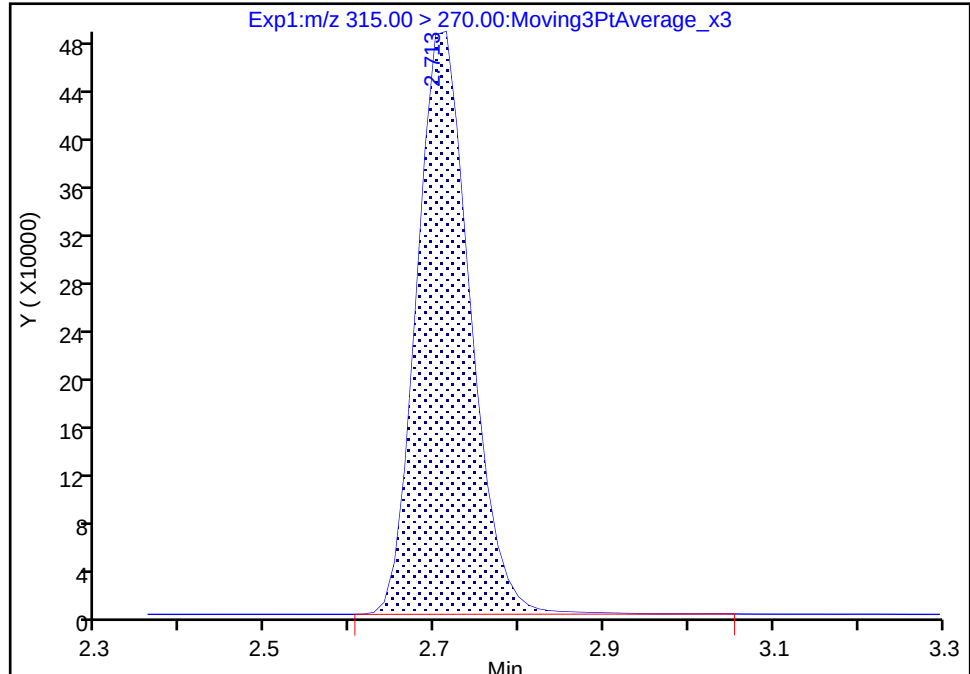
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

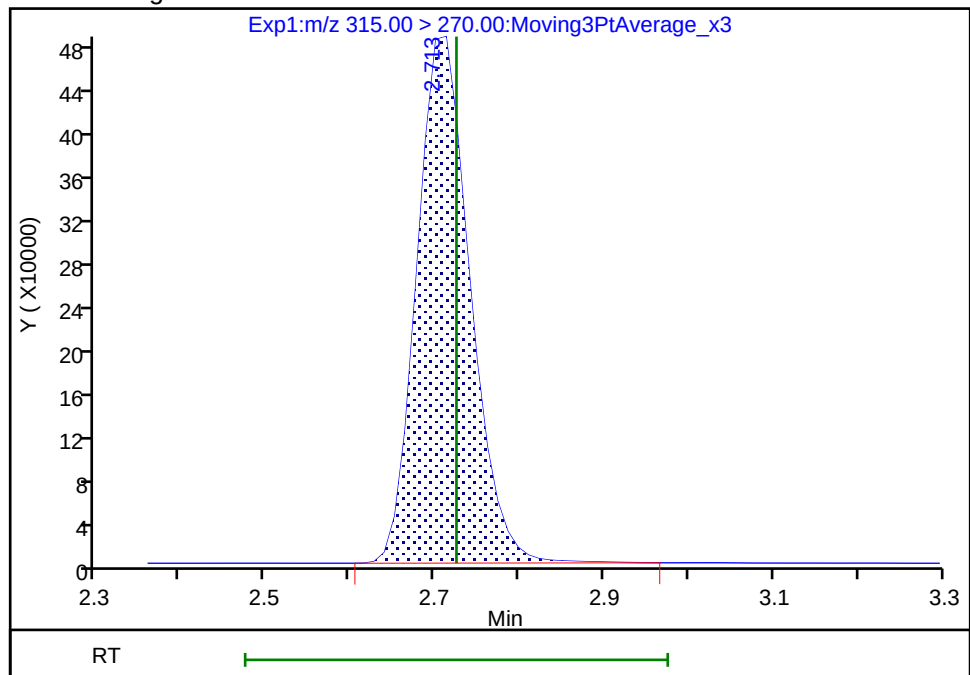
RT: 2.71
Area: 2119024
Amount: 1.172219
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 2116930
Amount: 1.171060
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:29:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

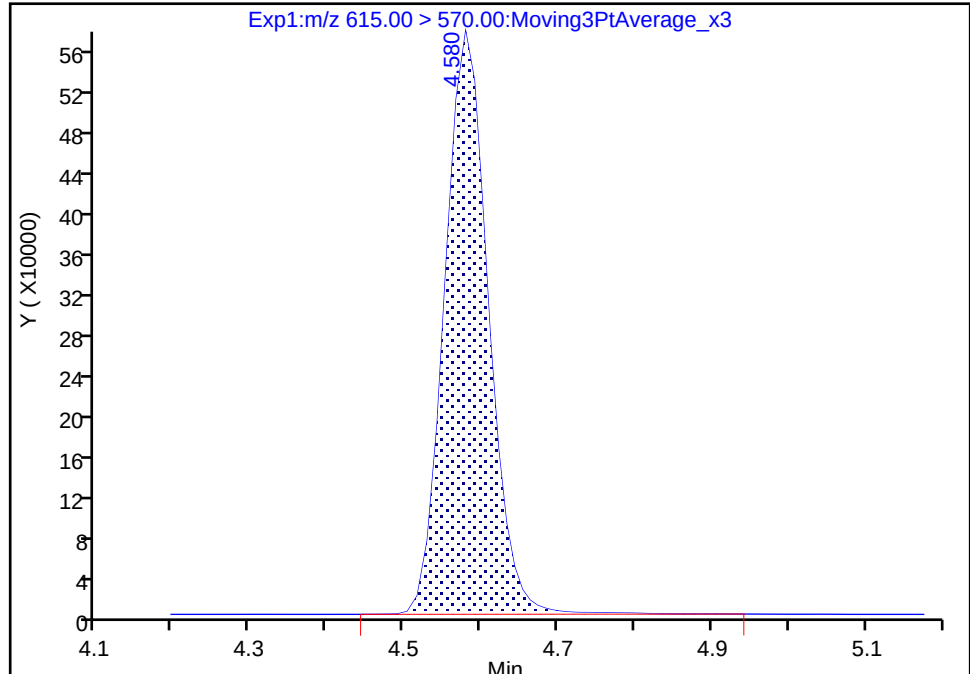
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 36 13C2 PFD_oA, CAS: STL00998

Signal: 1

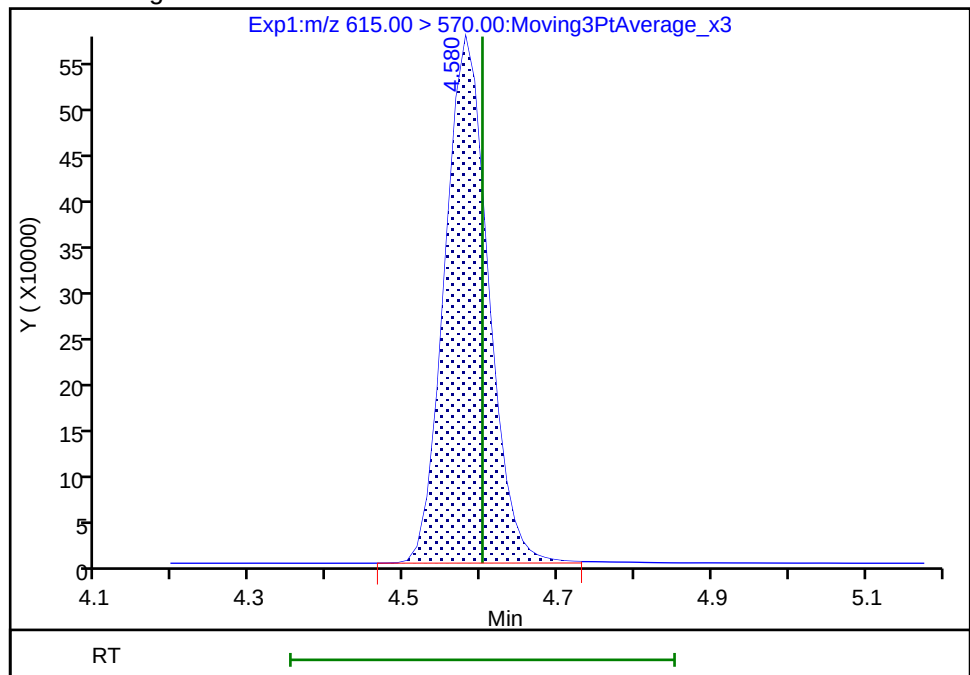
RT: 4.58
Area: 2274163
Amount: 1.568369
Amount Units: ng/ml

Processing Integration Results



RT: 4.58
Area: 2266068
Amount: 1.562786
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:30:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 790 of 978

11/21/2022
4:10 PM

Eurofins Burlington

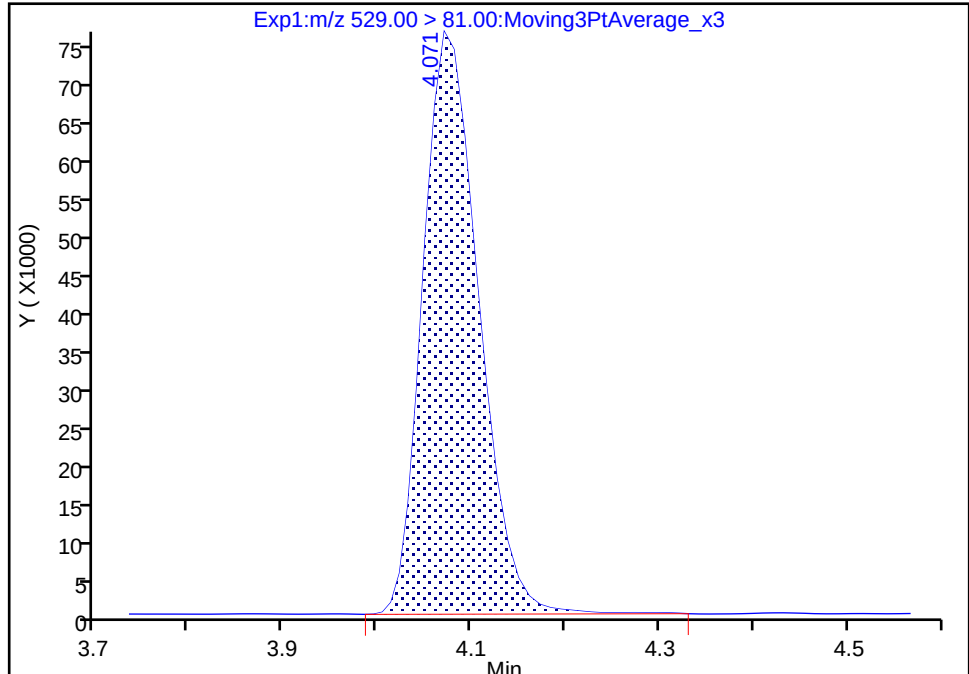
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

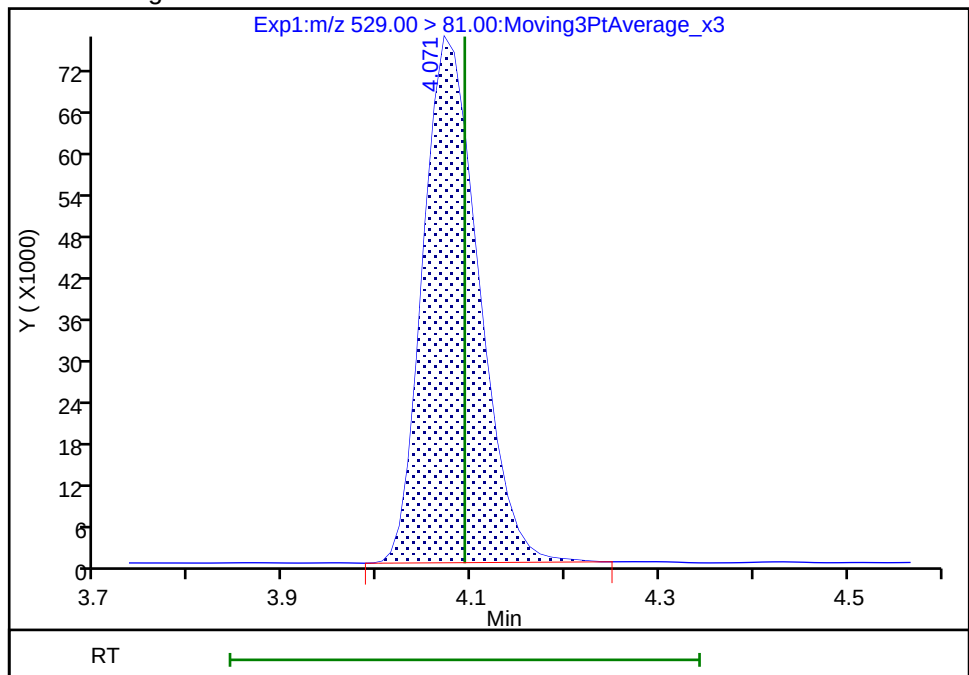
RT: 4.07
Area: 315466
Amount: 1.214816
Amount Units: ng/ml

Processing Integration Results



RT: 4.07
Area: 313737
Amount: 1.208158
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:30:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 791 of 978

11/21/2022
4:10 PM

Eurofins Burlington

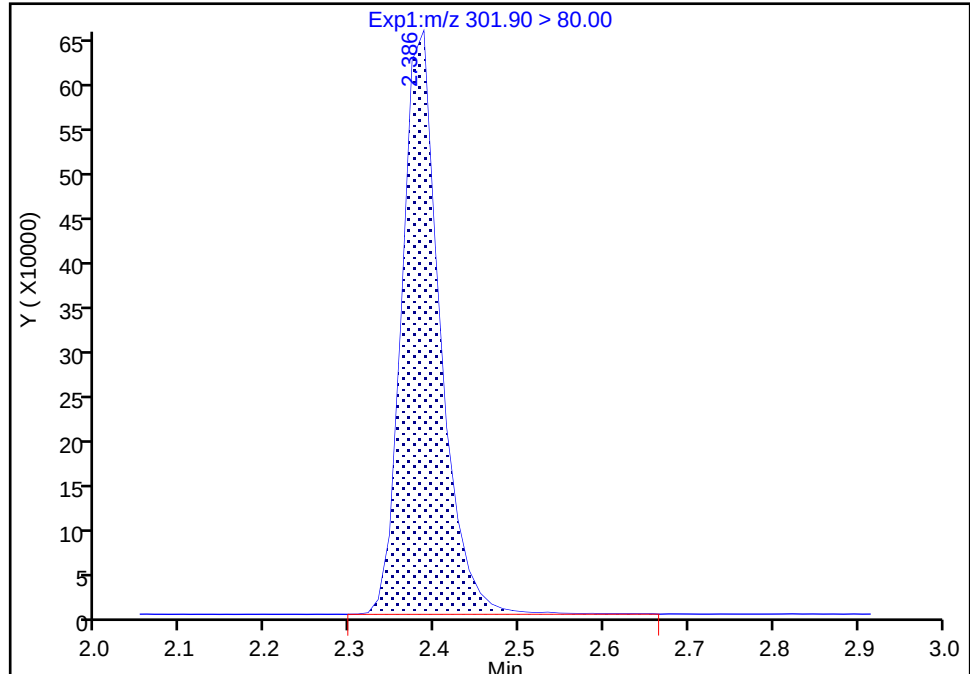
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

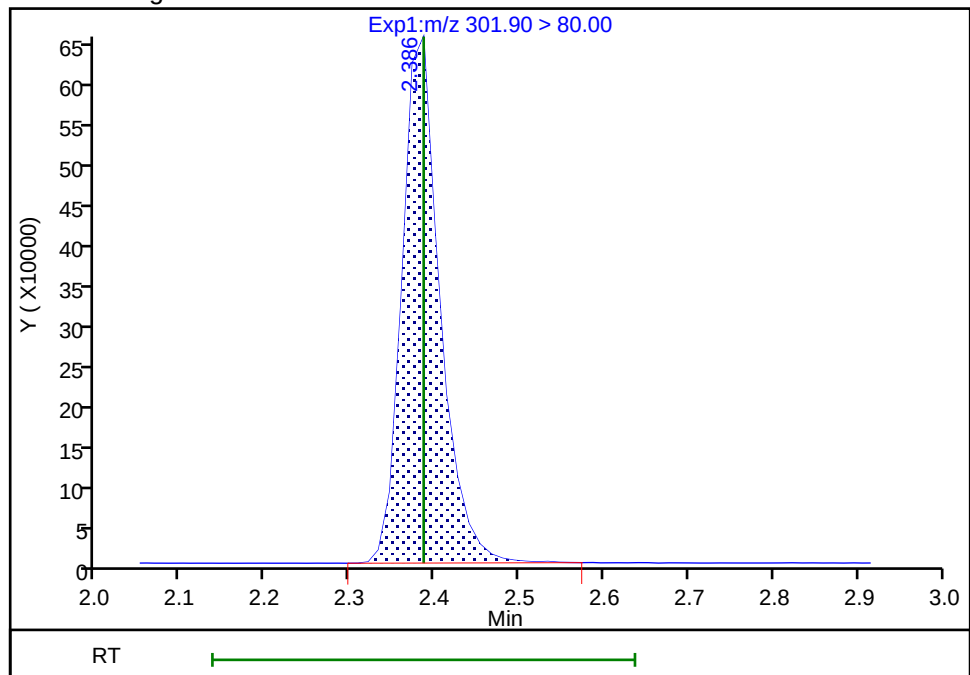
RT: 2.39
Area: 2046388
Amount: 1.136213
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 2038950
Amount: 1.132083
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:28:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

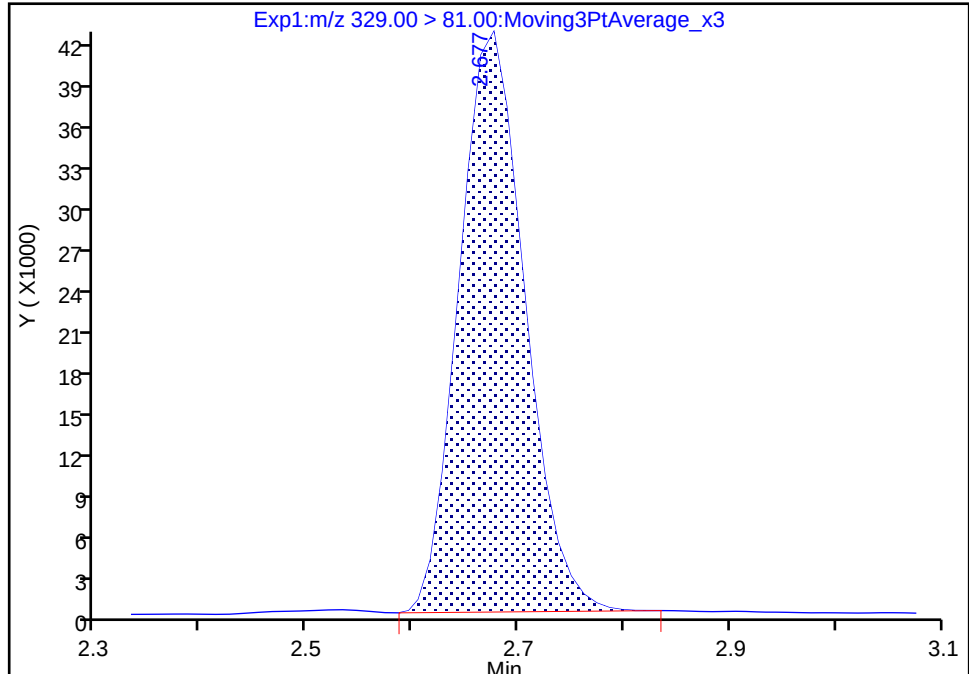
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53344.b\PA221116A04.d
Injection Date: 16-Nov-2022 09:26:38 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

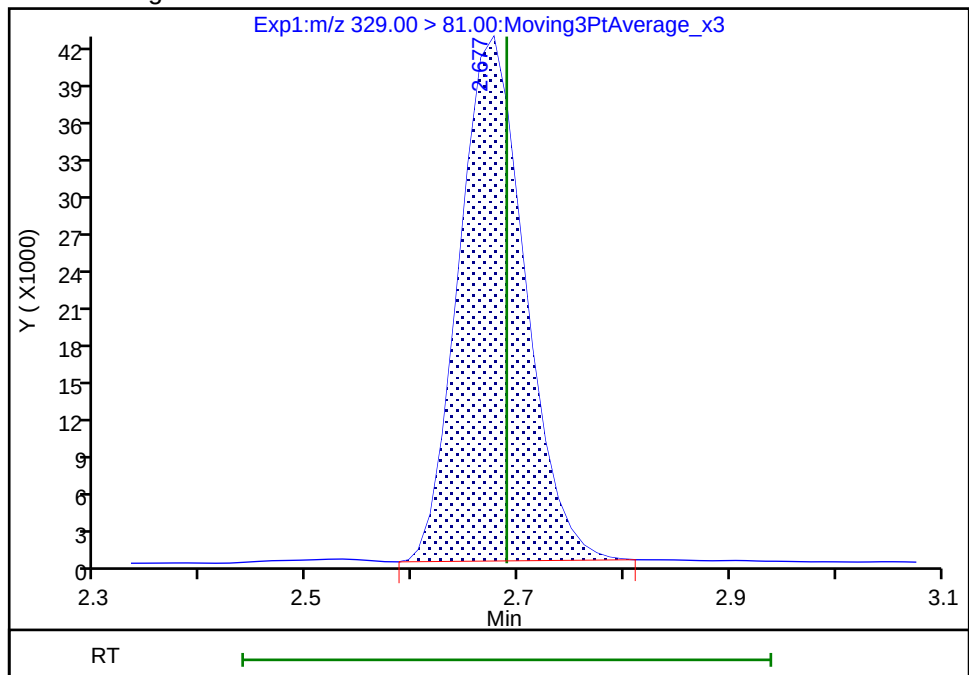
RT: 2.68
Area: 181321
Amount: 1.110672
Amount Units: ng/ml

Processing Integration Results



RT: 2.68
Area: 181150
Amount: 1.109625
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 17-Nov-2022 07:29:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 200-183540/11

Matrix: Solid Lab File ID: PA220914ICAL11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 09/14/2022 11:22

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.: 183540 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)	0.0245	J	0.050	0.017
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0235	J	0.050	0.016
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0242	J	0.050	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.0222	J	0.050	0.019
375-95-1	Perfluorononanoic acid (PFNA)	0.0210	J	0.050	0.012
335-76-2	Perfluorodecanoic acid (PFDA)	0.0233	J	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0204	J	0.050	0.014
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0194	J	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.0163	J	0.050	0.012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0197	J	0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0200	J	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0210	J	0.050	0.014
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0209	J	0.050	0.010
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0240	J	0.050	0.021
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0213	J	0.050	0.010
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	0.0253	J	0.050	0.020

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: ICB 200-183540/11

Matrix: Solid Lab File ID: PA220914ICAL11.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 09/14/2022 11:22

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.: 183540 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	91		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	97		50-150
STL00991	13C4 PFOS	92		50-150
STL00995	13C5 PFNA	97		50-150
STL00992	13C4 PFBA	93		50-150
STL00993	13C2 PFHxA	91		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	98		50-150
STL01056	13C8 FOSA	98		50-150
STL01893	13C5 PFPeA	92		50-150
STL02116	13C2 PFTeDA	98		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	97		50-150
STL02279	M2-6:2 FTS	96		50-150
STL02280	M2-8:2 FTS	98		50-150
STL02337	13C3 PFBS	92		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 14-Sep-2022 11:22:43 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0052438-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 14-Sep-2022 12:26:10 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1643

First Level Reviewer: Z1IP

Date: 14-Sep-2022 12:03:02

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	2.094	2.093	0.001	0.601	2088589	1.16		92.6	14671	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.102	-0.008	1.000	44732	0.0264			5.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.413	0.0	0.693	1639398	1.15		92.3	2678	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.413	2.413	0.0	1.000	34445	0.0245			1.2	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.426	-0.013	0.693	1538916	1.07		92.0	225842	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.427	2.426	0.001	1.006	30484	0.0200	Target=2.19		35.7	M
298.90 > 99.00	2.427	2.426	0.001	1.006	13441		2.27(1.09-3.28)		15.4	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.725	2.725	0.0	0.783	141487	1.08		92.9	158	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.725	2.725	0.0	1.000	7643	0.0232			117	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.793	1637311	1.13		90.7	2347	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.000	33437	0.0235	Target=13.67		8.8	M
313.00 > 119.00	2.762	2.762	0.0	1.000	2052		16.29(6.83-20.50)		4.4	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.774	-0.012	0.885	26098	0.0203	Target=3.00		46.6	M
349.00 > 99.00	2.762	2.774	-0.012	0.885	8757		2.98(1.50-4.51)		22.8	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.871	0.0	0.825	315169	1.16		93.0	1493	

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	2.859	2.871	-0.012	0.996	6063	0.0220			106	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	37747	0.0242	Target=3.76		12.3	
363.00 > 169.00	3.132	3.132	0.0	1.000	9322		4.05(1.88-5.65)		31.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.132	0.0	0.899	1750587	1.23		98.7	2493	
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.132	-0.011	0.896	1106635	1.08		91.1	1511	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.132	-0.011	1.000	22905	0.0210	Target=3.60		69.7	M
399.00 > 99.00	3.121	3.132	-0.011	1.000	7590		3.02(1.80-5.40)		15.0	M
77 DONA										M
377.00 > 251.00	3.165	3.165	0.0	0.833	74201	0.0215	Target=3.10		161	M
377.00 > 85.00	3.165	3.165	0.0	0.833	22882		3.24(1.55-4.65)		38.5	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.473	0.010	0.916	18246	0.0209	Target=5.32		83.8	
449.00 > 99.00	3.474	3.473	0.001	0.914	4030		4.53(2.66-7.97)		26.8	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.481	-0.007	1.000	6545	0.0213			32.8	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.481	-0.007	0.998	199997	1.14		96.0	544	
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.490	-0.007	1.000	1844465	1.22		97.2	2653	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.490	-0.007		1850072	1.25			2664	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.490	-0.007	1.000	37152	0.0222	Target=2.73		3.3	M
413.00 > 169.00	3.483	3.490	-0.007	1.000	13863		2.68(1.37-4.10)		30.5	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.801	0.001	1.000	18093	0.0240	Target=5.09		18.0	M
499.00 > 99.00	3.802	3.801	0.001	1.000	2859		6.33(2.55-7.64)		14.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.801	0.001	1.092	741949	1.10		91.7	2600	
D 19 13C5 PFNA										
468.00 > 423.00	3.822	3.821	0.001	1.098	1807219	1.21		96.9	2917	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.821	0.001	1.000	31797	0.0210	Target=7.76		11.2	
463.00 > 169.00	3.822	3.821	0.001	1.000	3846		8.27(3.88-11.63)		36.1	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.969	3.969	0.0	1.044	30061	0.0199			269	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.104	4.104	0.0	1.079	11538	0.0210	Target=2.67		118	M
549.00 > 99.00	4.104	4.104	0.0	1.079	5210		2.21(1.34-4.01)		33.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.127	4.127	0.0	1.185	1718283	1.18		94.8	2656	

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	4.127	4.127	0.0	1.000	34457	0.0233	Target=9.83	21.9		M
513.00 > 169.00	4.127	4.127	0.0	1.000	3470		9.93(4.91-14.74)	12.7		M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.139	4.138	0.001	1.188	244328	1.18		98.3	839	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.138	-0.011	0.997	6407	0.0253		134		
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.184	0.0	1.202	1454550	1.23		98.5	2049	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.196	4.196	0.0	1.003	25131	0.0214		72.2		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.273	0.0	1.227	238068	1.17		93.2	1001	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.286	4.273	0.013	1.003	6306	0.0358		22.2		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.365	0.0	1.148	9118	0.0213	Target=2.59	147		M
599.00 > 99.00	4.376	4.365	0.011	1.151	2478		3.68(1.30-3.89)	36.1		M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.399	4.399	0.0	1.000	24234	0.0204	Target=9.68	19.8		M
563.00 > 169.00	4.399	4.399	0.0	1.000	2676		9.06(4.84-14.53)	35.4		
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.410	4.399	0.011	1.266	246095	1.21		97.1	984	
D 30 13C2 PFUnA										
565.00 > 520.00	4.399	4.399	0.0	1.263	1422438	1.20		95.8	2750	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.000	6546	0.0364		41.1		M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.491	4.491	0.0	1.181	37504	0.0190		257		
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	23610	0.0194	Target=6.96	4.0		M
613.00 > 169.00	4.643	4.633	0.010	1.002	3287		7.18(3.48-10.43)	50.2		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.633	4.633	0.0	1.330	1421098	1.23		98.1	3462	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.654	4.653	0.001	1.124	2358	0.0172		31.2		
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.812	4.803	0.009	1.266	4061	0.0233	Target=0.52	63.0		
699.00 > 99.00	4.812	4.803	0.009	1.266	6071		0.67(0.26-0.78)	179		
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	18172	0.0163	Target=4.85	3.1		M
663.00 > 169.00	4.859	4.848	0.011	1.049	4350		4.18(2.42-7.27)	46.2		
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.041	0.001	1.000	2978	0.0197	Target=0.99	52.4		
713.00 > 219.00	5.042	5.041	0.001	1.000	3077		0.97(0.49-1.48)	56.5		M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.041	0.001	1.448	1214863	1.23		98.2	2524	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	5.400	5.388	0.012	1.550	1293083	1.18		94.7	3329	

45 Perfluorohexadecanoic acid

813.00 > 769.00	5.400	5.388	0.012	1.000	25322	0.000334	Target=4.99	6.1		M

813.00 > 169.00	5.400	5.388	0.012	1.000	4873		5.20(2.49-7.48)	51.3		M

46 Perfluorooctadecanoic acid

913.00 > 869.00	5.740	5.731	0.009	1.063	11452	0.0153	Target=4.90	3.5		

913.00 > 169.00	5.740	5.731	0.009	1.063	1972		5.81(2.45-7.35)	31.3		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00022

Amount Added: 100.00

Units: uL

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d

Injection Date: 14-Sep-2022 11:22:43

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

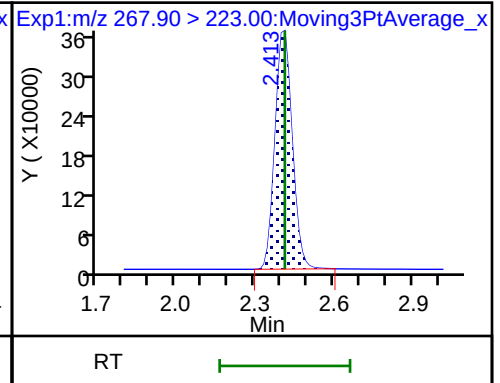
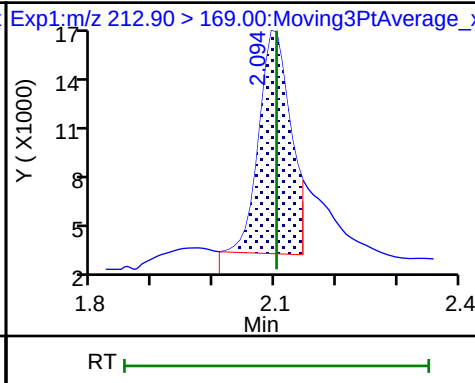
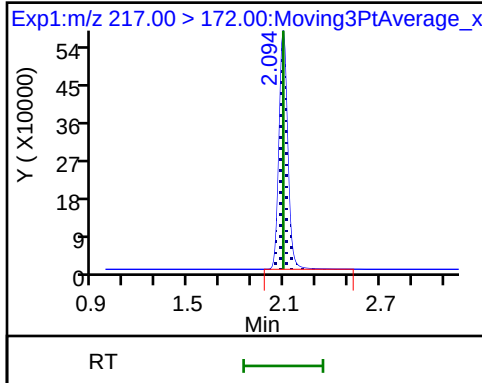
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

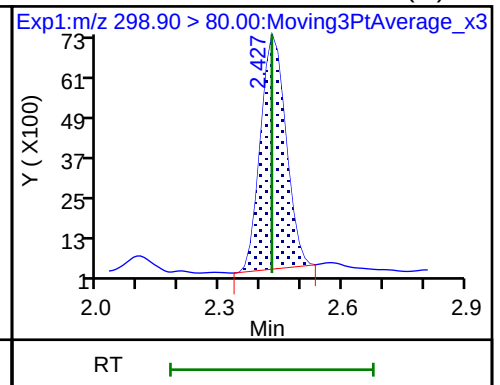
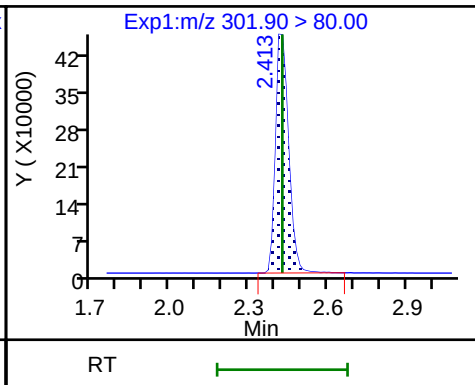
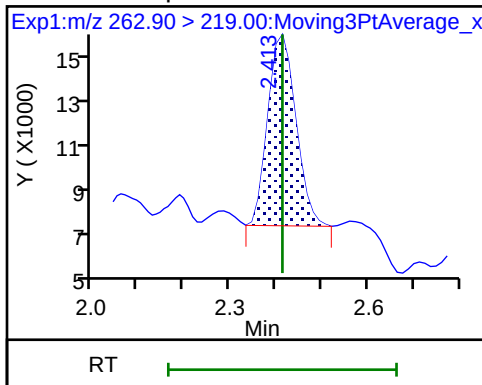
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

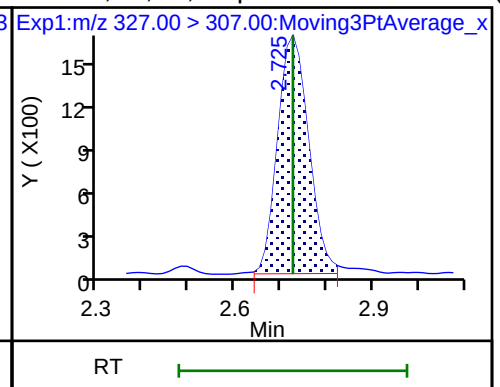
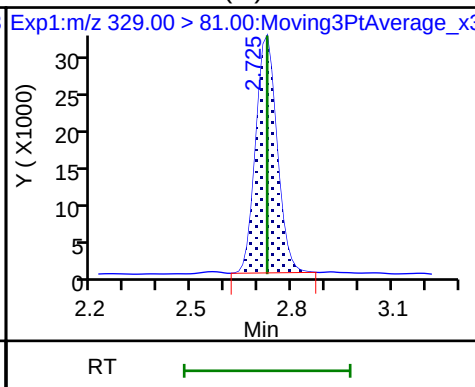
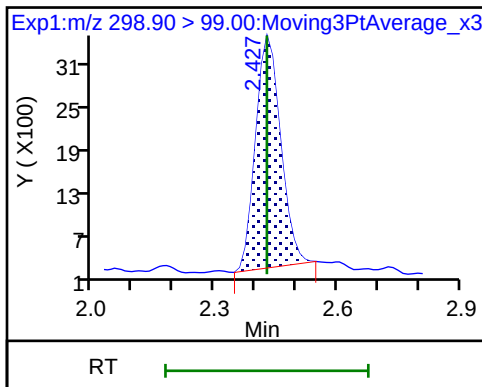
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

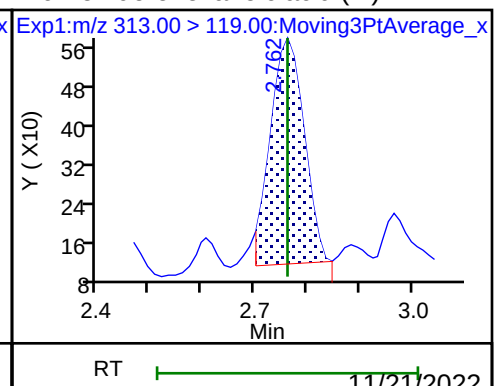
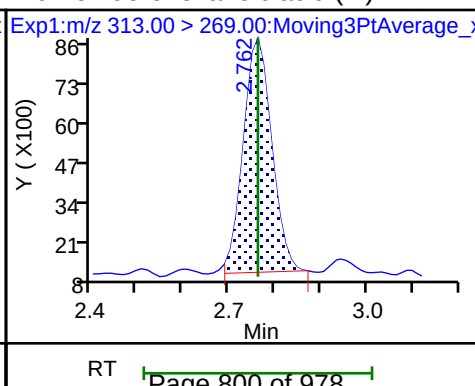
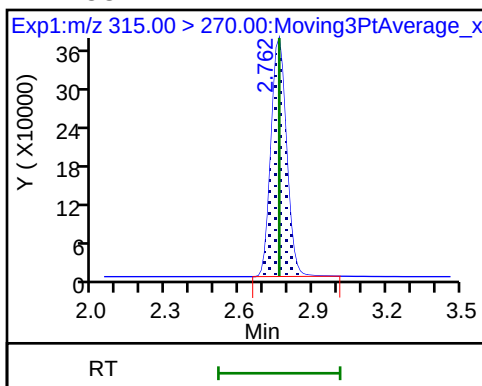
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

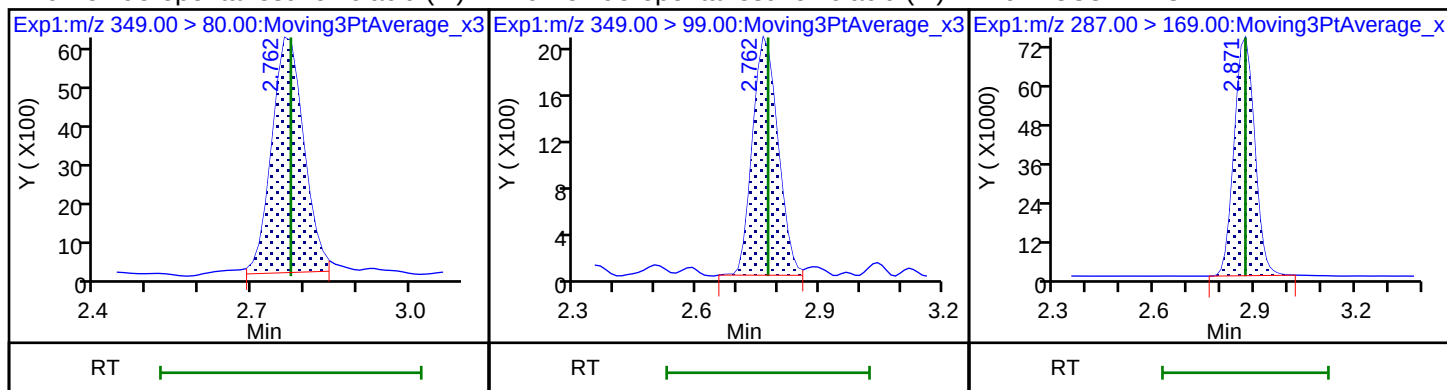
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

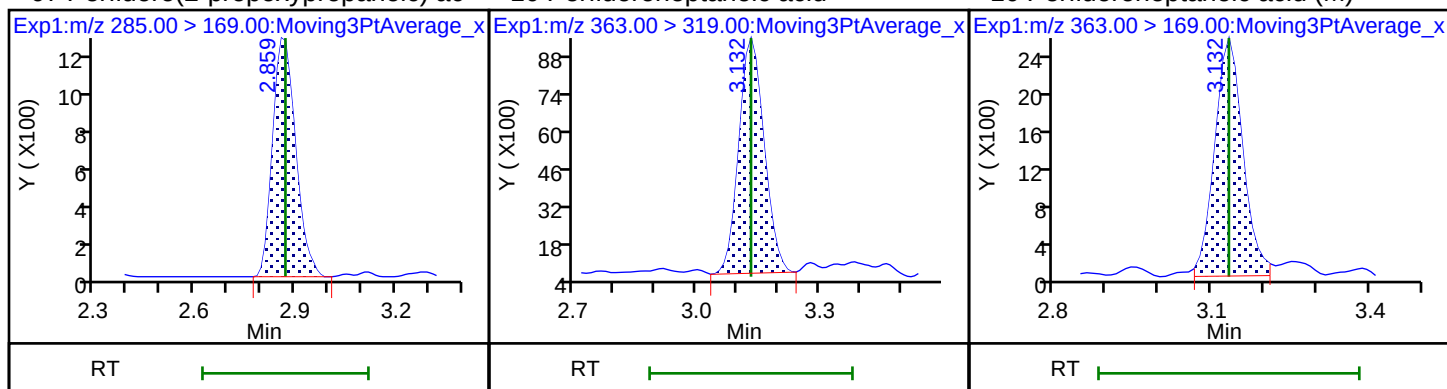
D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac

10 Perfluoroheptanoic acid

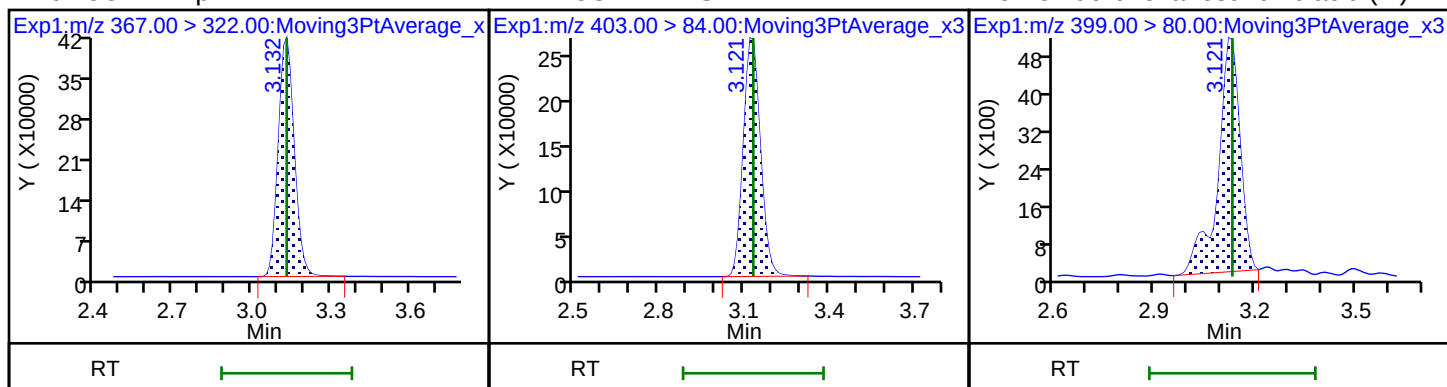
10 Perfluoroheptanoic acid (M)



D 9 13C4 PFHpA

D 11 18O2 PFHxS

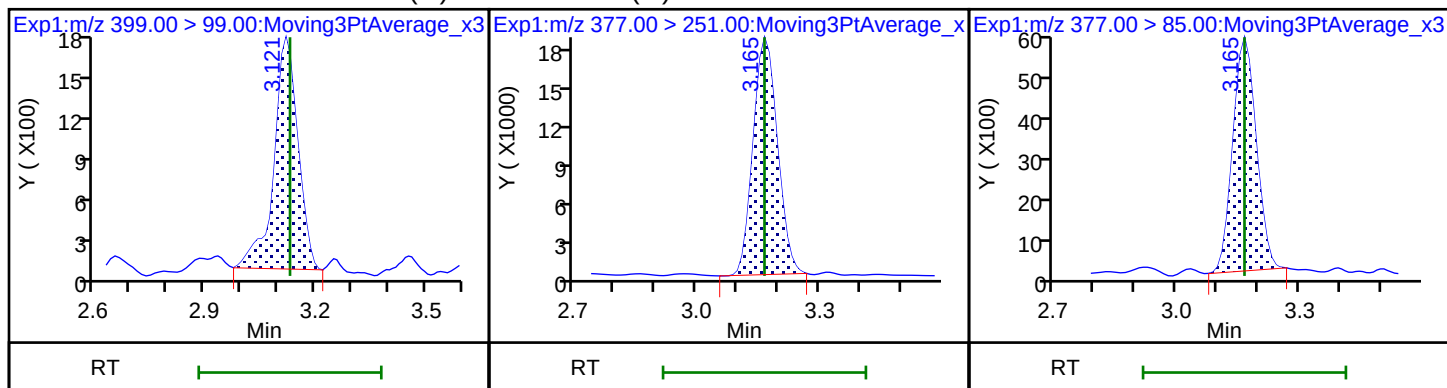
8 Perfluorohexanesulfonic acid (M)

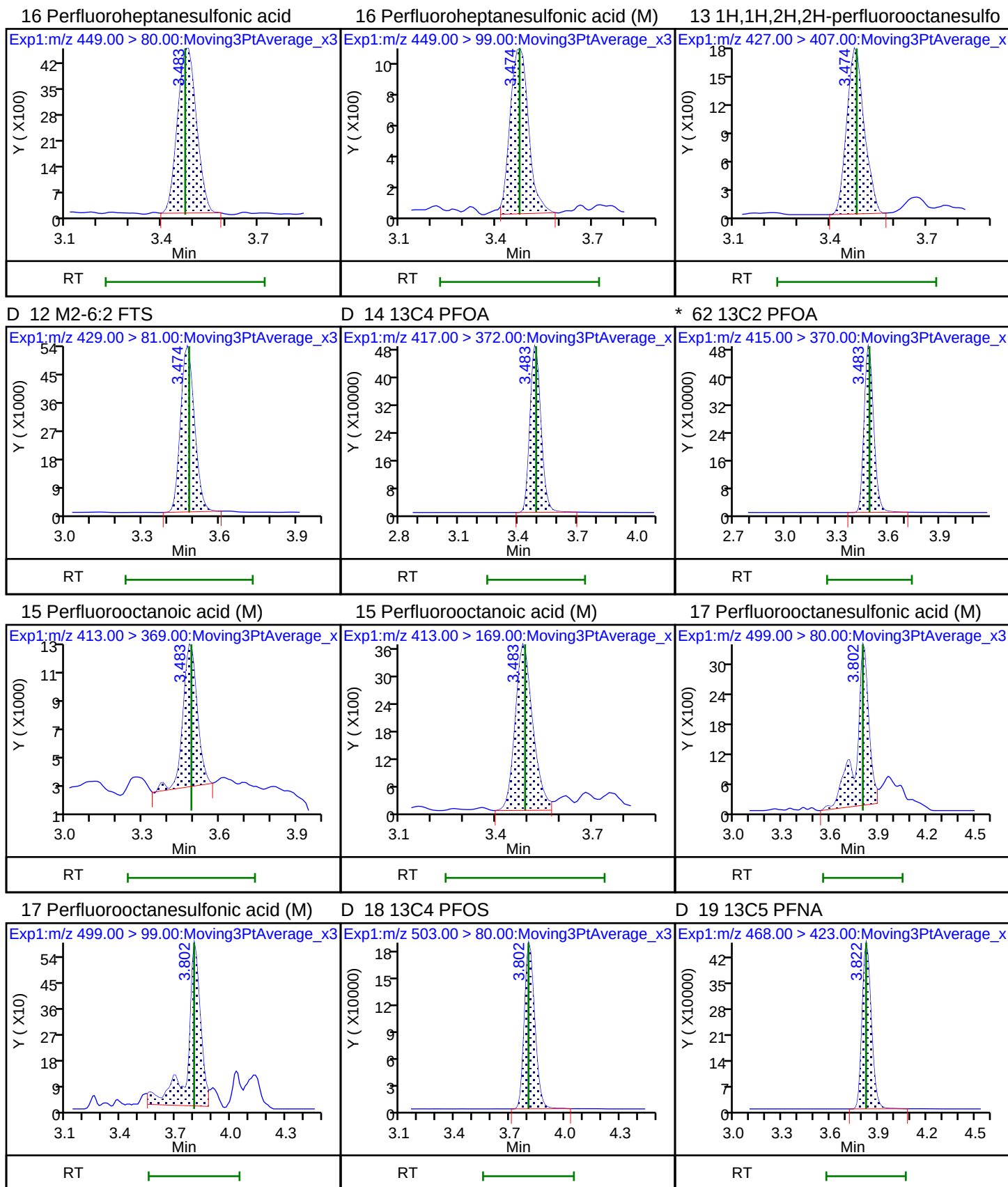


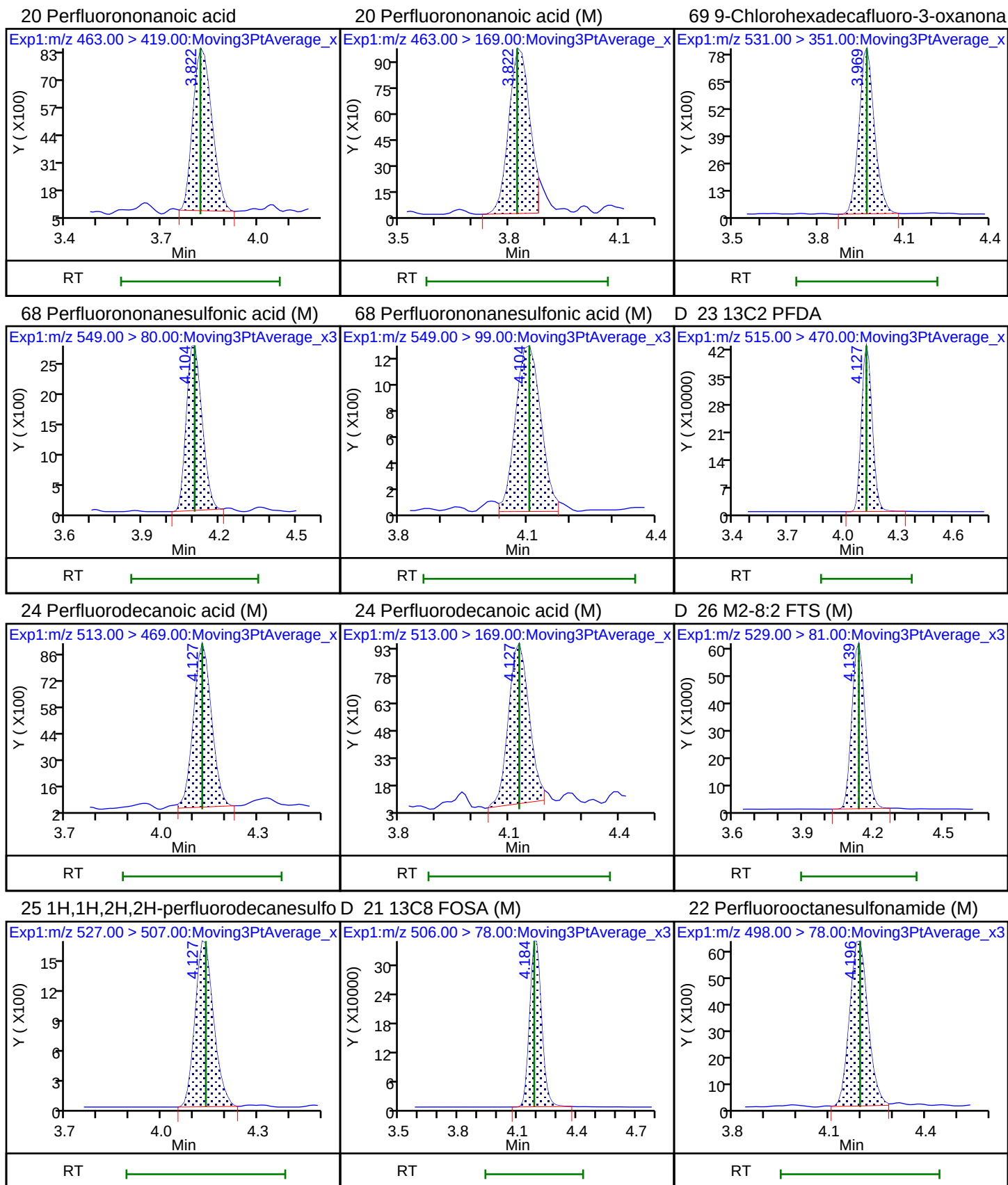
8 Perfluorohexanesulfonic acid (M)

77 DONA (M)

77 DONA



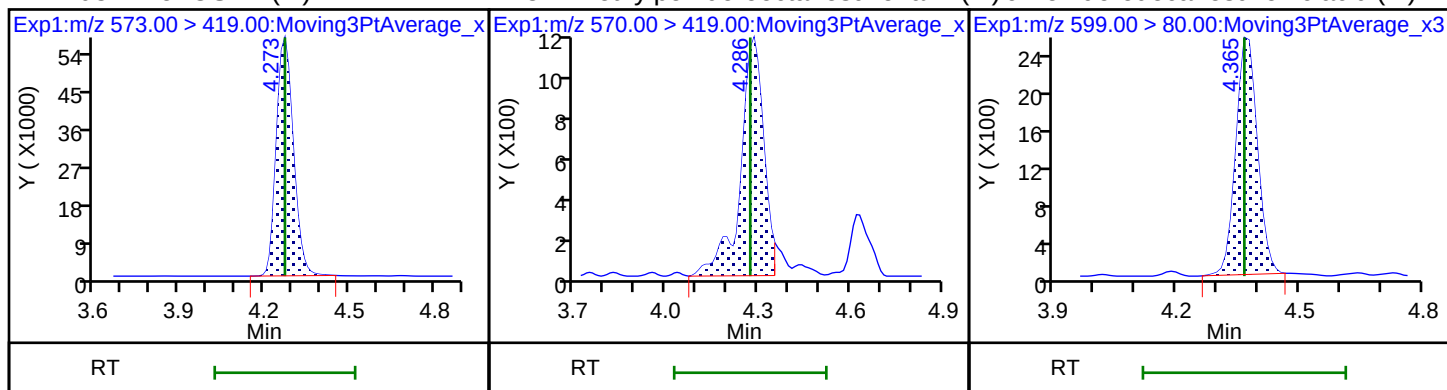




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

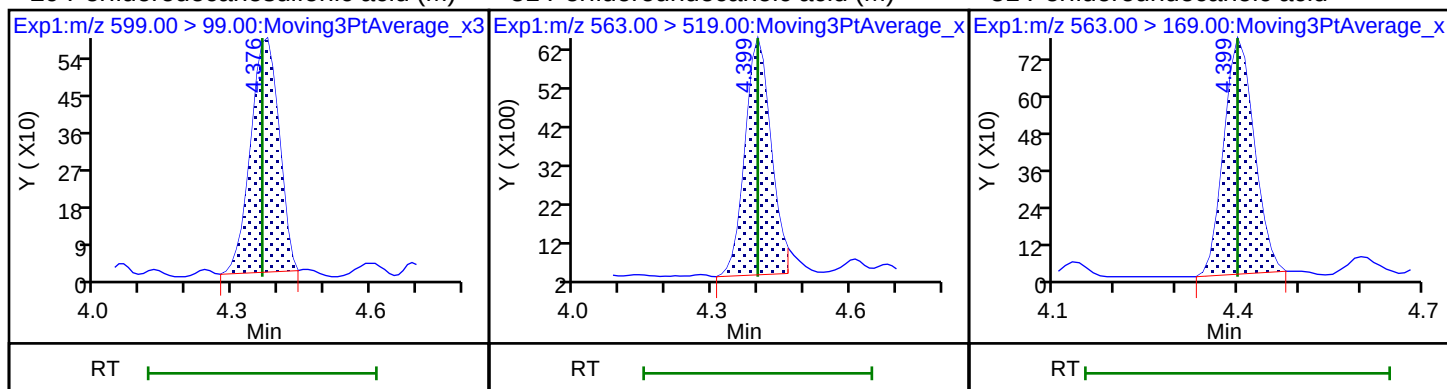
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

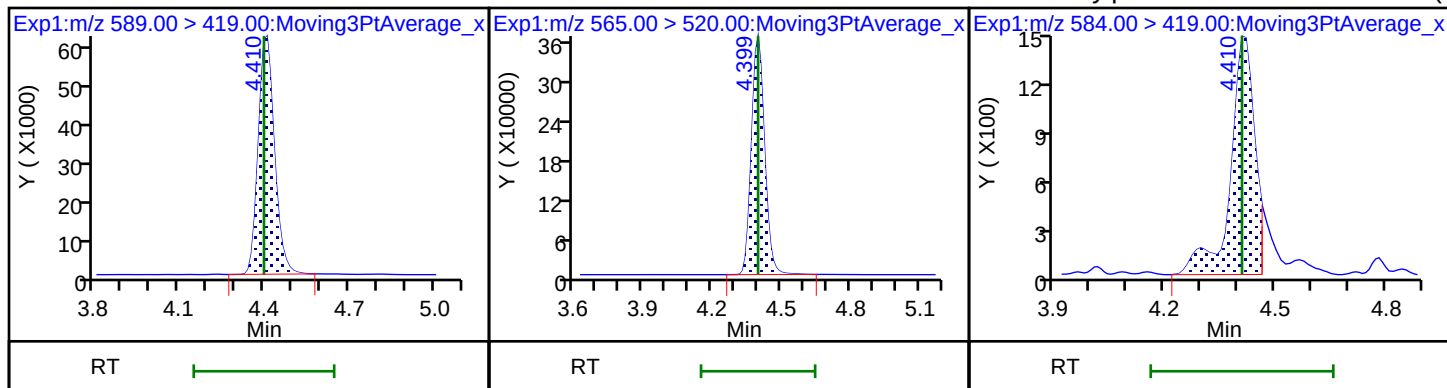
31 Perfluoroundecanoic acid



D 32 d5-NEtFOSAA

D 30 13C2 PFUnA

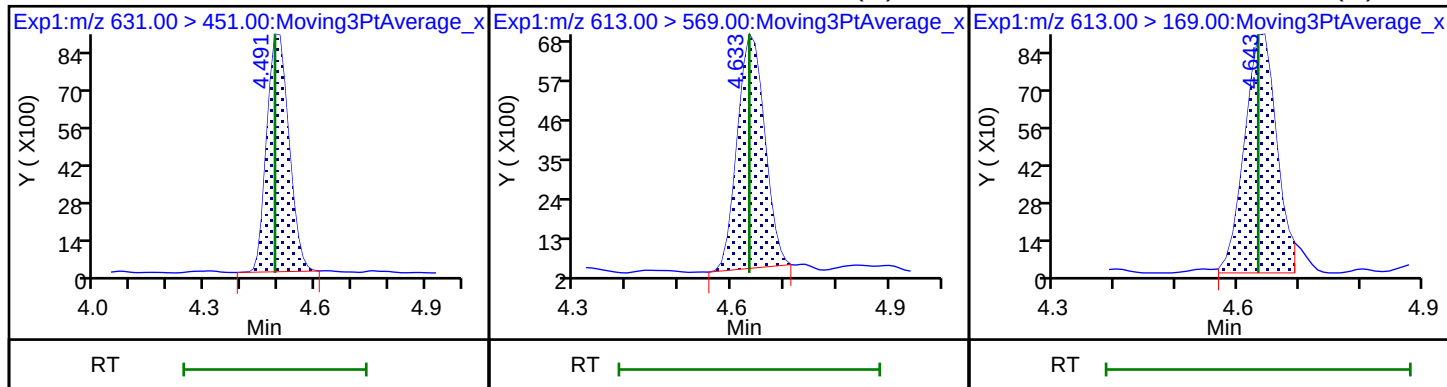
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

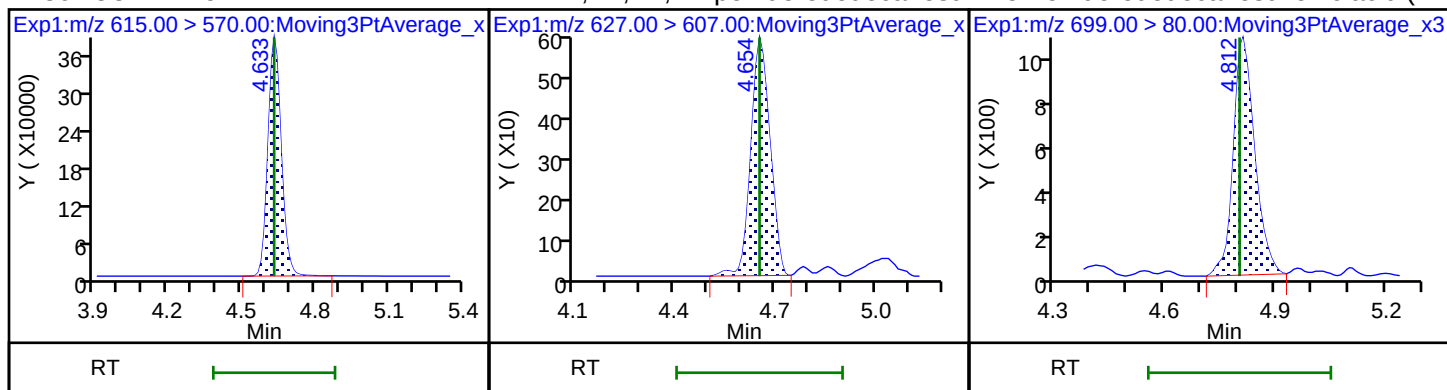
37 Perfluorododecanoic acid (M)

37 Perfluorododecanoic acid (M)



D 36 13C2 PFDaA

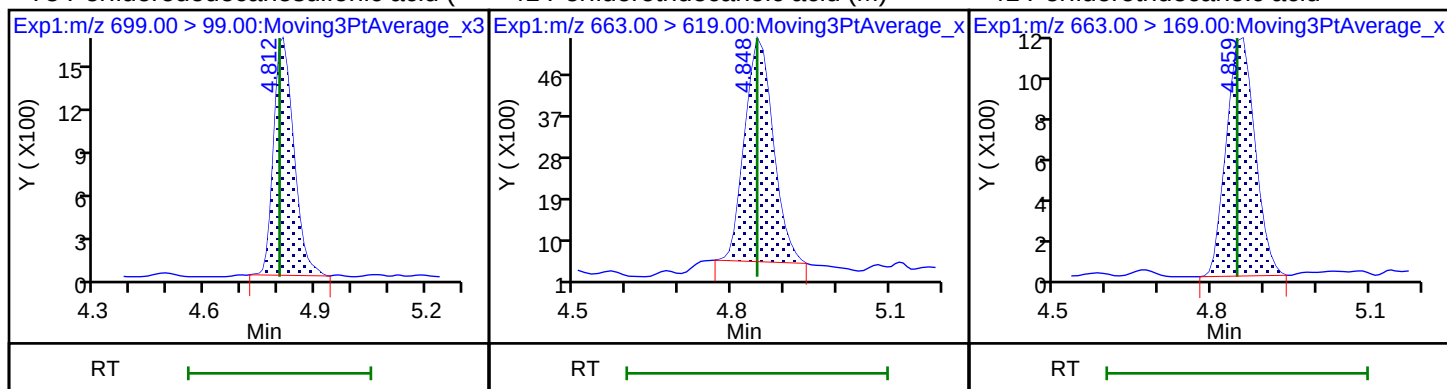
74 1H,1H,2H,2H-perfluorododecanesul 75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

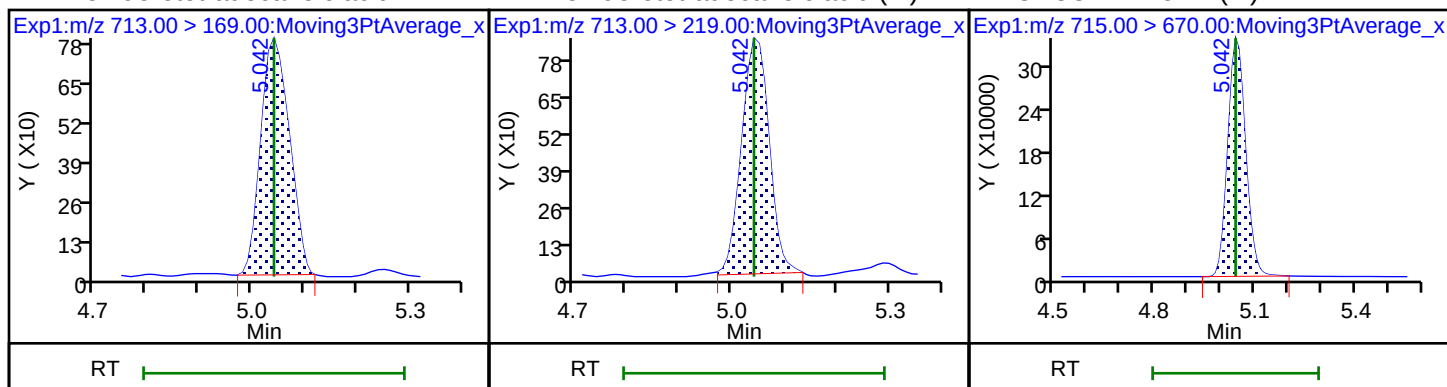
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

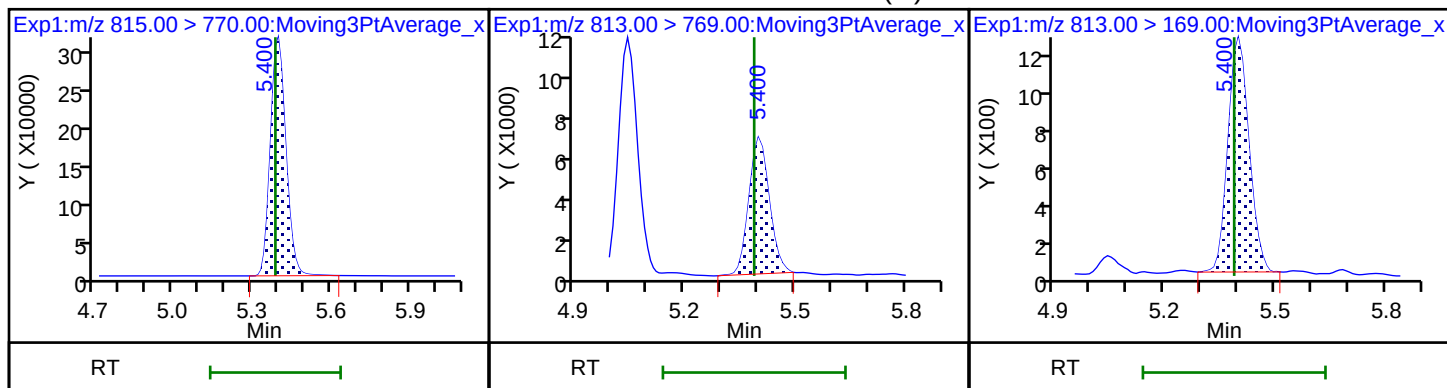
D 43 13C2 PFTeDA (M)



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid (M)

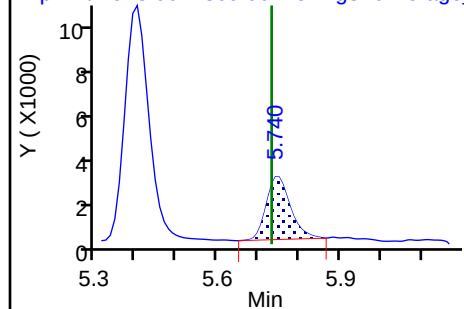
45 Perfluorohexadecanoic acid



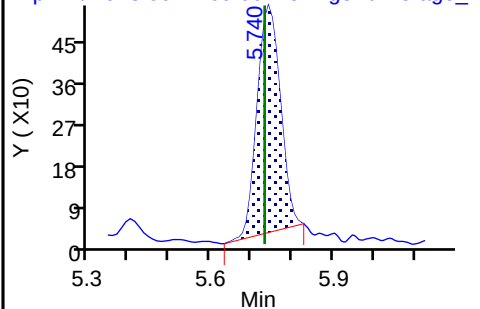
46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x



Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins Burlington

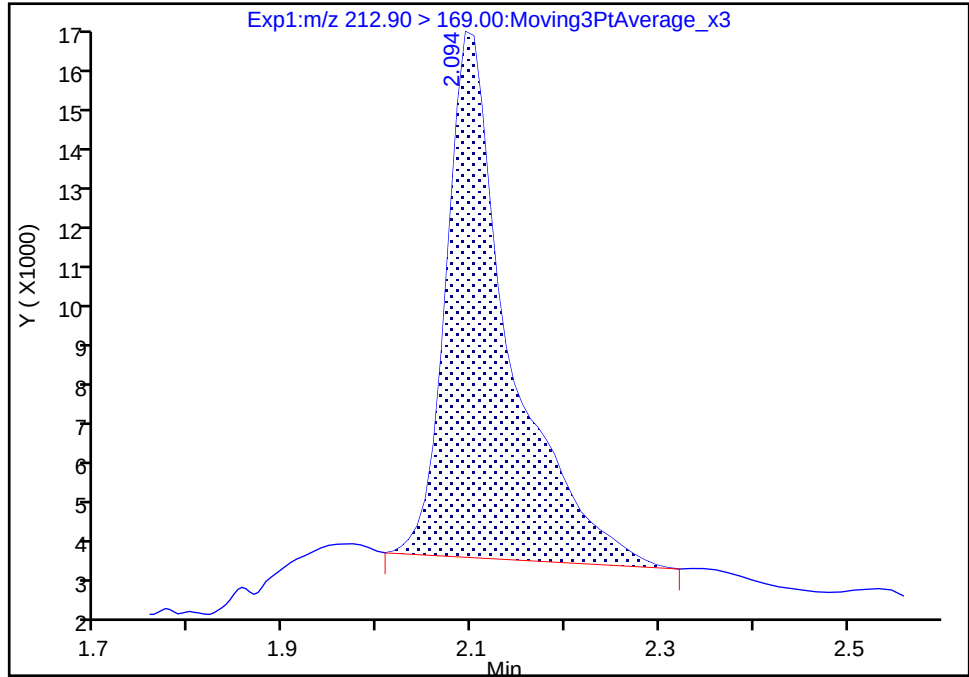
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

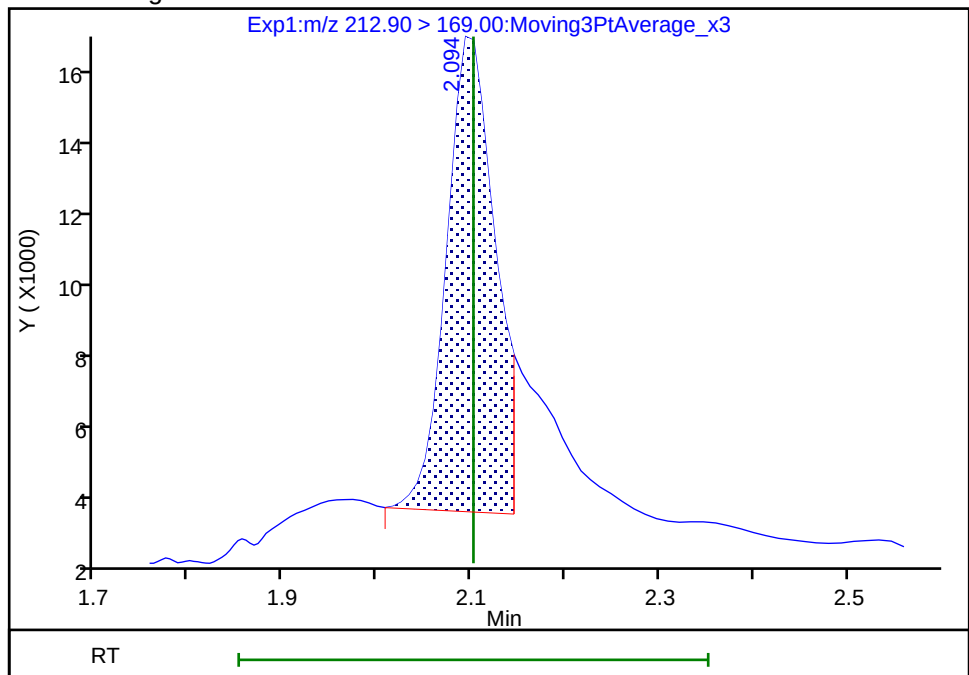
RT: 2.09
Area: 59177
Amount: 0.034981
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 44732
Amount: 0.026442
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:06:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 807 of 978

11/21/2022
4:10 PM

Eurofins Burlington

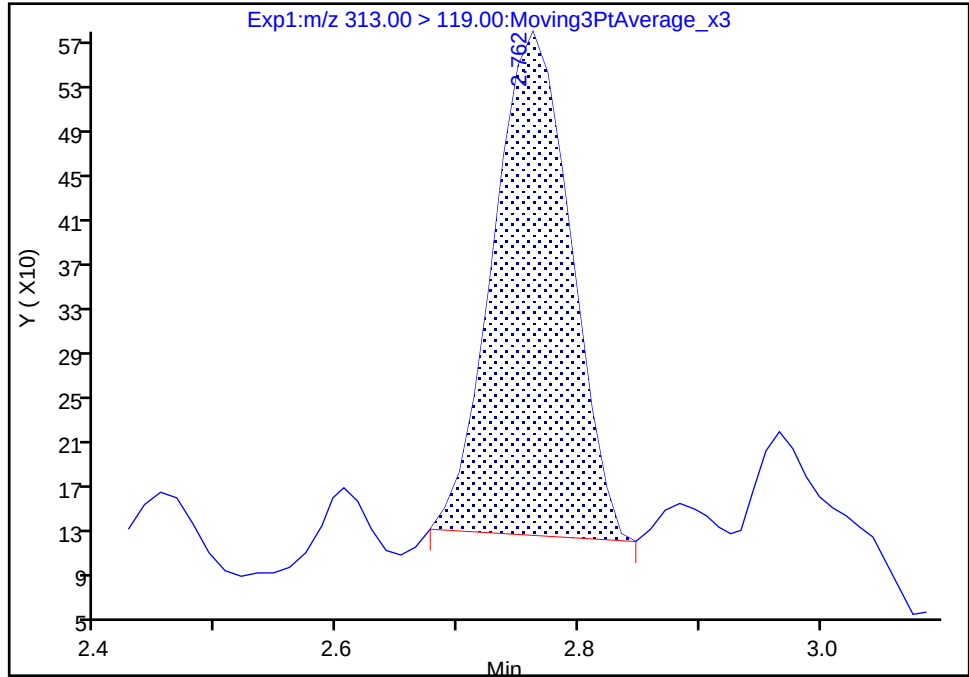
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

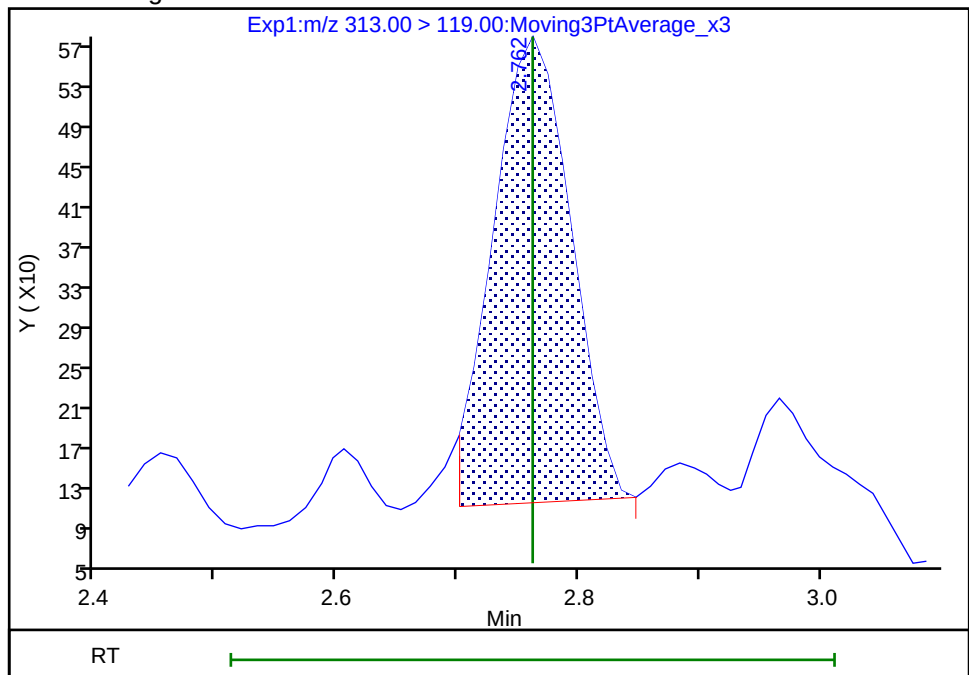
RT: 2.76
Area: 2005
Amount: 0.023974
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 2052
Amount: 0.023513
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:07:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 808 of 978

11/21/2022
4:10 PM

Eurofins Burlington

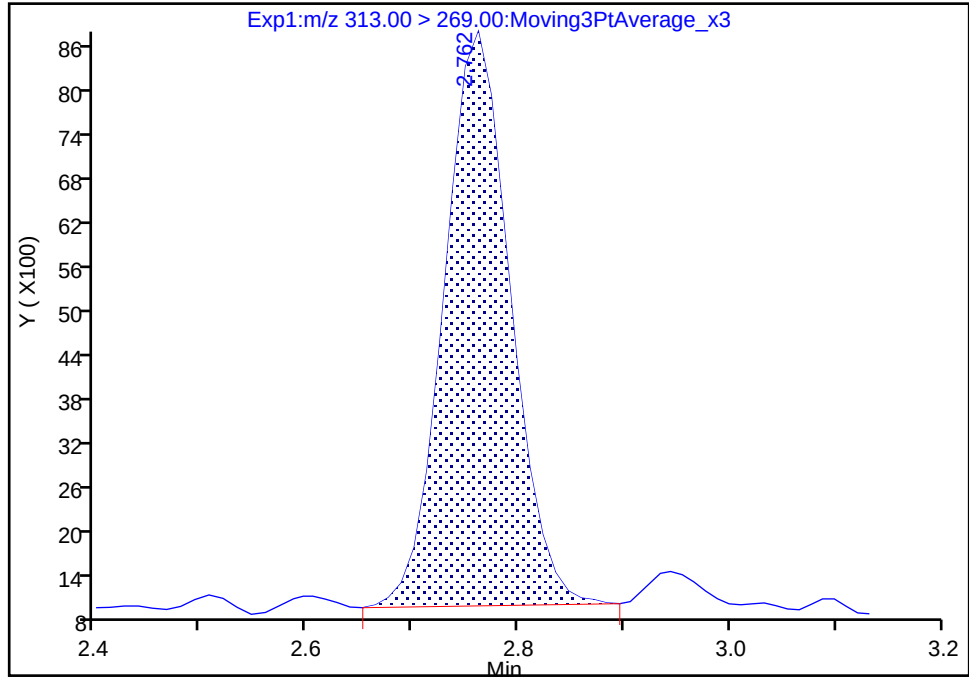
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

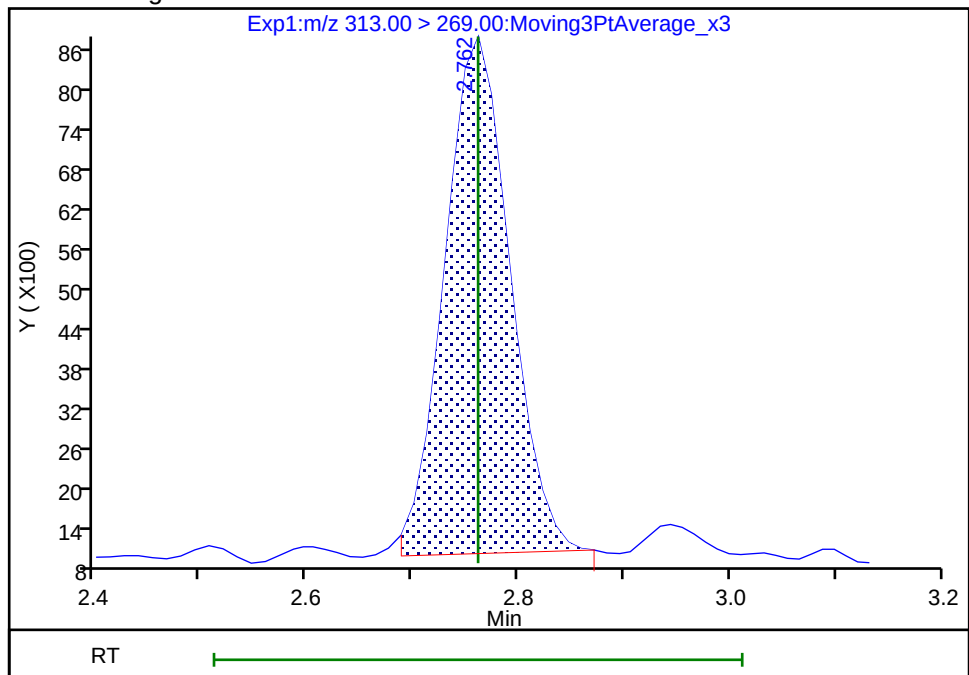
RT: 2.76
Area: 34093
Amount: 0.023974
Amount Units: ng/ml

Processing Integration Results



RT: 2.76
Area: 33437
Amount: 0.023513
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:07:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 809 of 97811/21/2022
4:10 PM

Eurofins Burlington

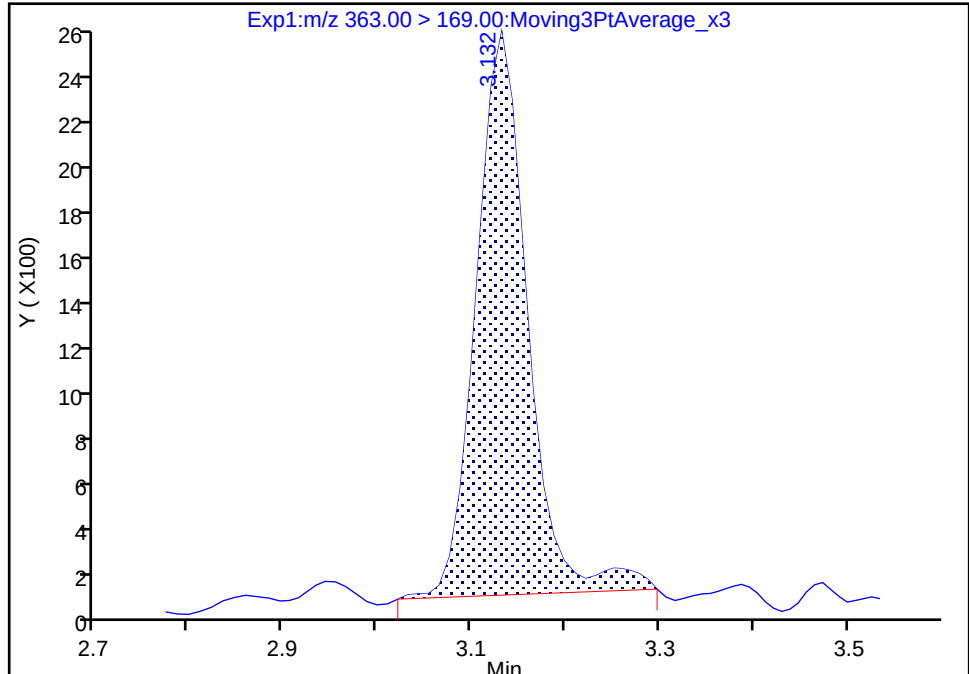
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

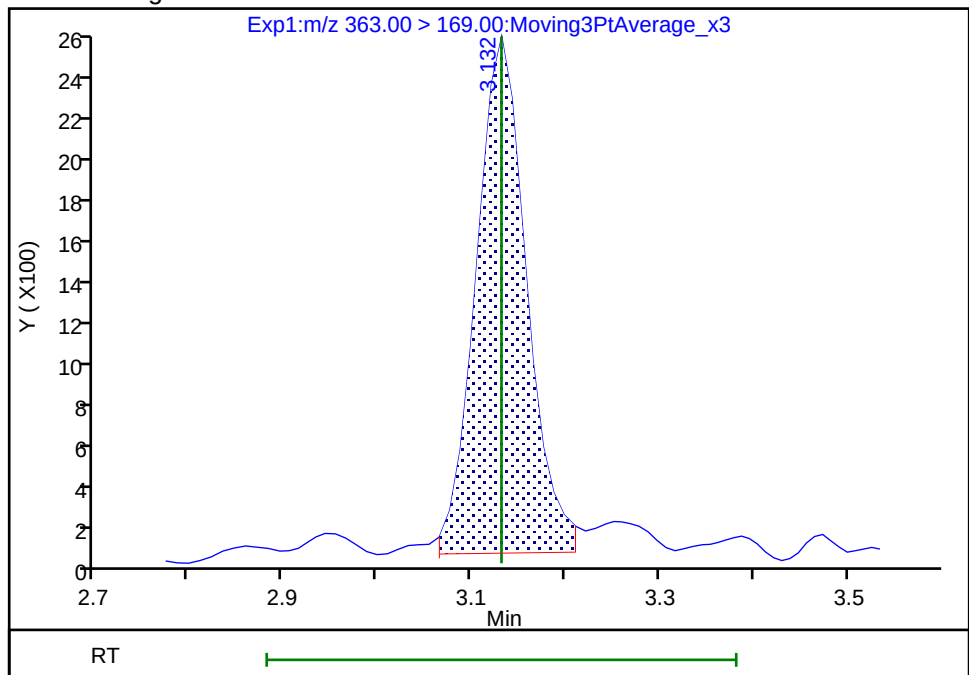
RT: 3.13
Area: 9441
Amount: 0.024184
Amount Units: ng/ml

Processing Integration Results



RT: 3.13
Area: 9322
Amount: 0.024184
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:08:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 810 of 978

11/21/2022
4:10 PM

Eurofins Burlington

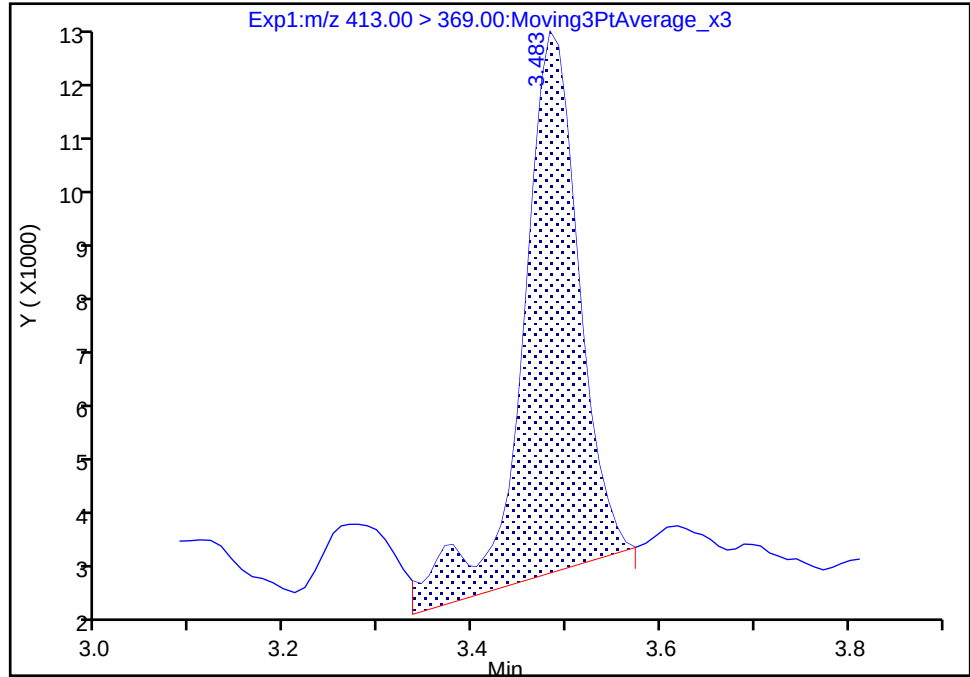
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

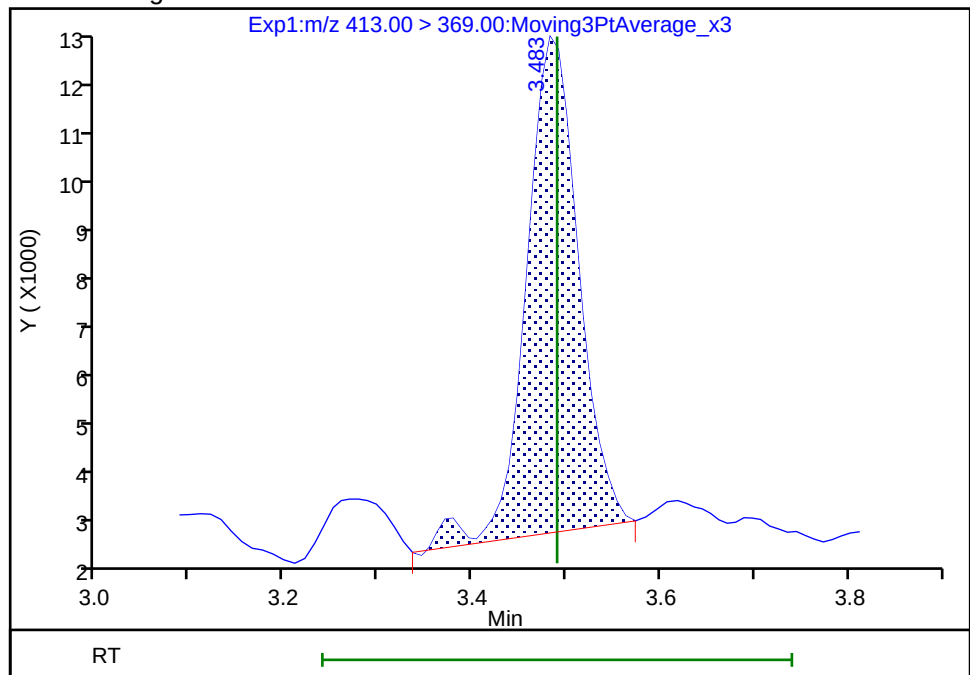
RT: 3.48
Area: 41473
Amount: 0.024831
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 37152
Amount: 0.022244
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:09:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 811 of 978

11/21/2022
4:10 PM

Eurofins Burlington

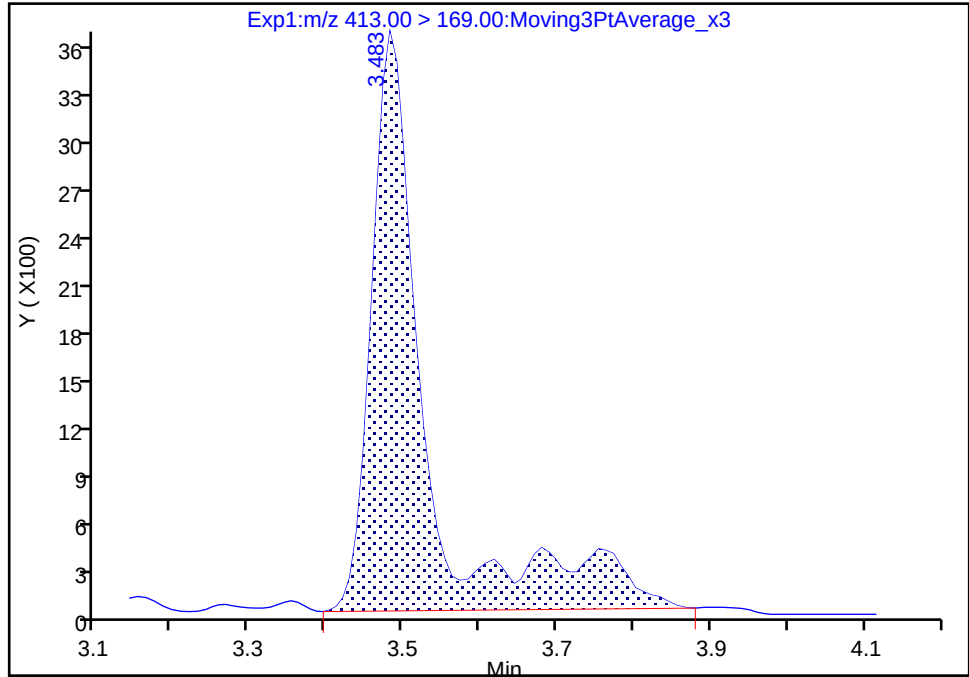
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

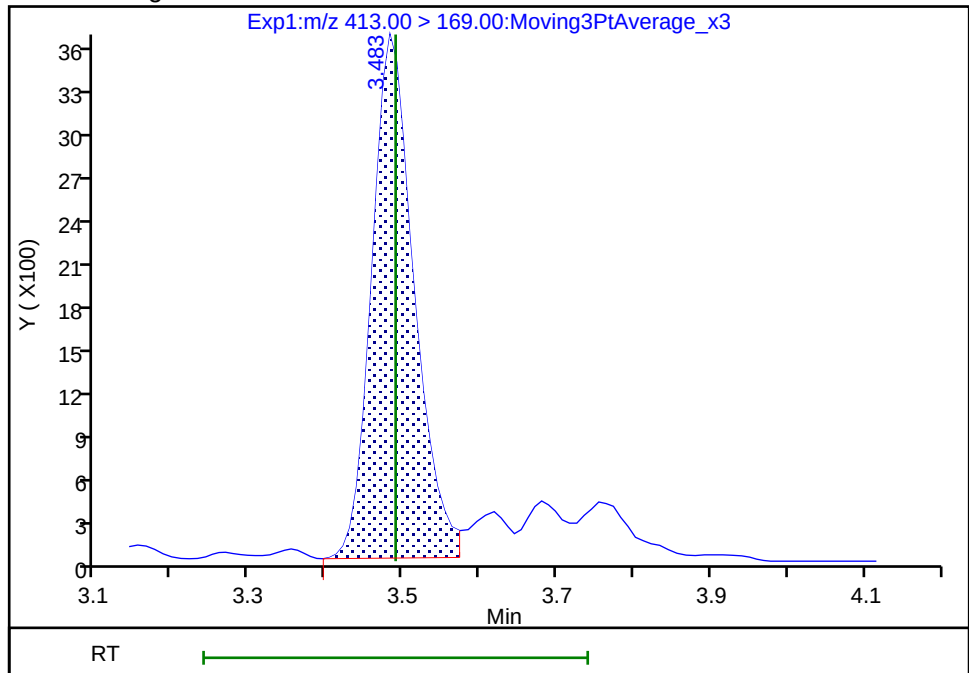
RT: 3.48
Area: 17903
Amount: 0.024831
Amount Units: ng/ml

Processing Integration Results



RT: 3.48
Area: 13863
Amount: 0.022244
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:09:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 812 of 97811/21/2022
4:10 PM

Eurofins Burlington

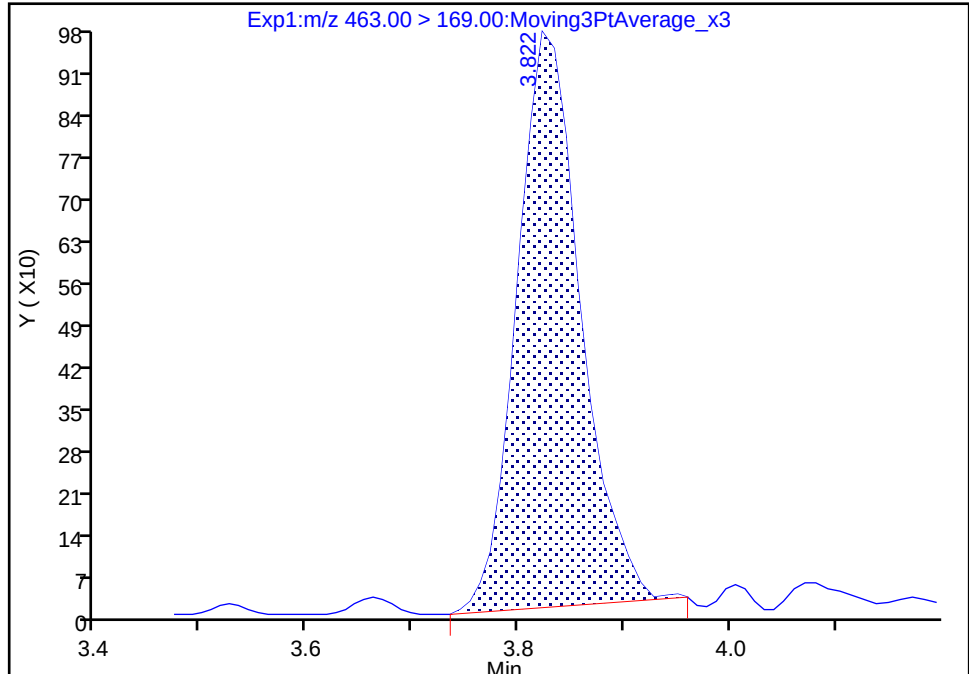
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

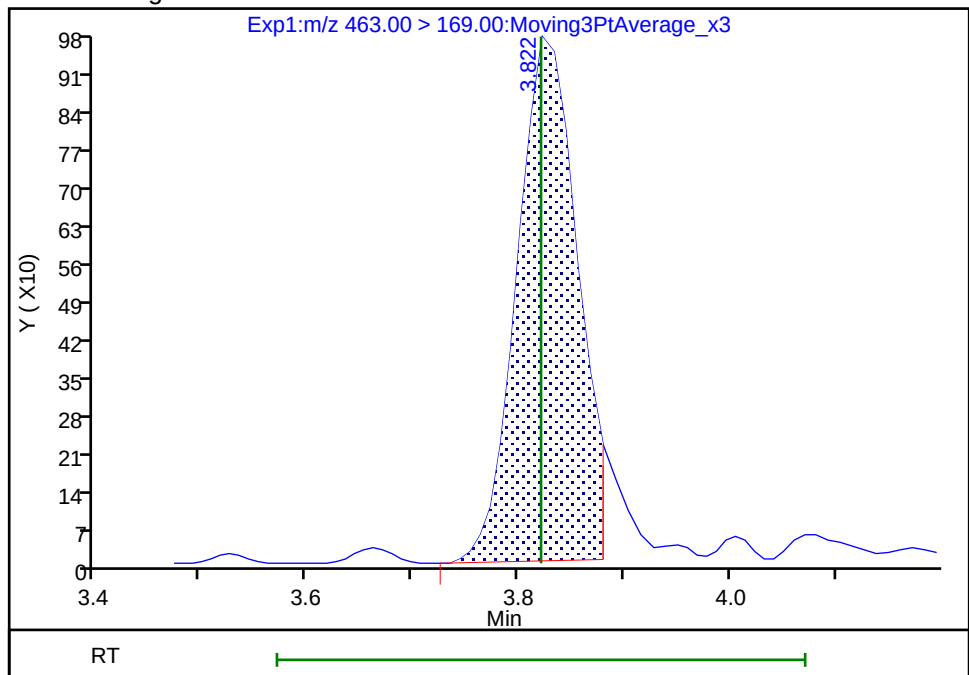
RT: 3.82
Area: 4054
Amount: 0.020953
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 3846
Amount: 0.020953
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:09:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 813 of 978

11/21/2022
4:10 PM

Eurofins Burlington

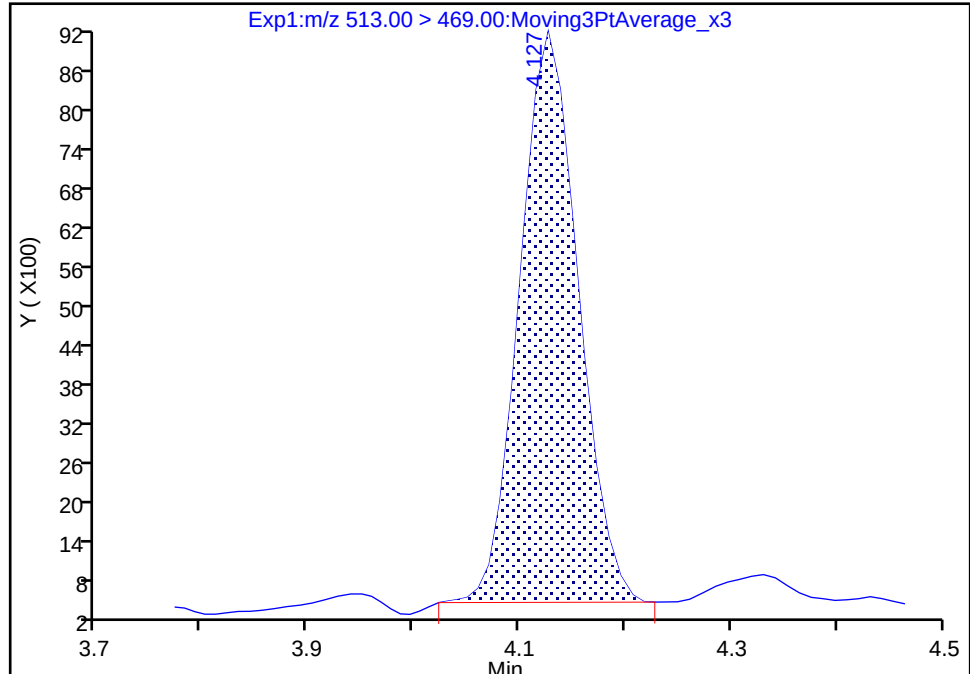
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

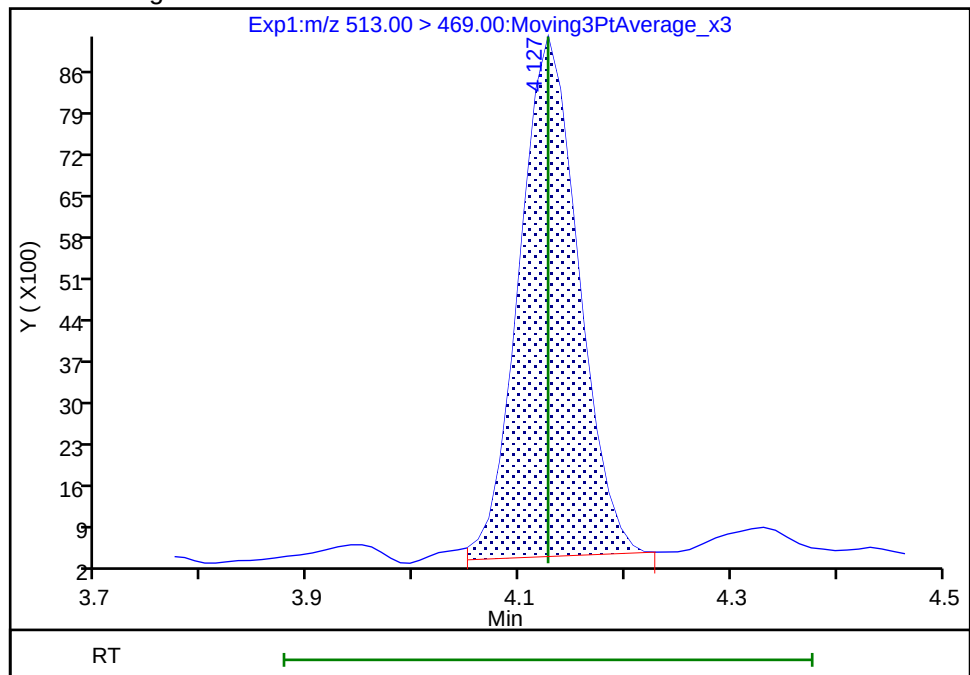
RT: 4.13
Area: 33861
Amount: 0.022906
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 34457
Amount: 0.023310
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:10:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 814 of 978

11/21/2022
4:10 PM

Eurofins Burlington

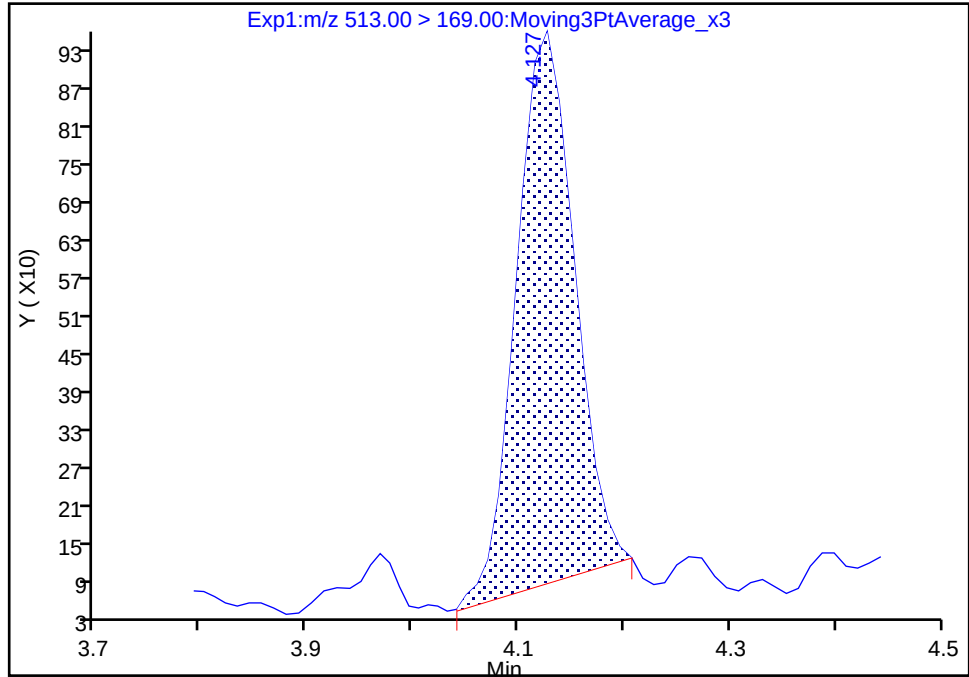
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

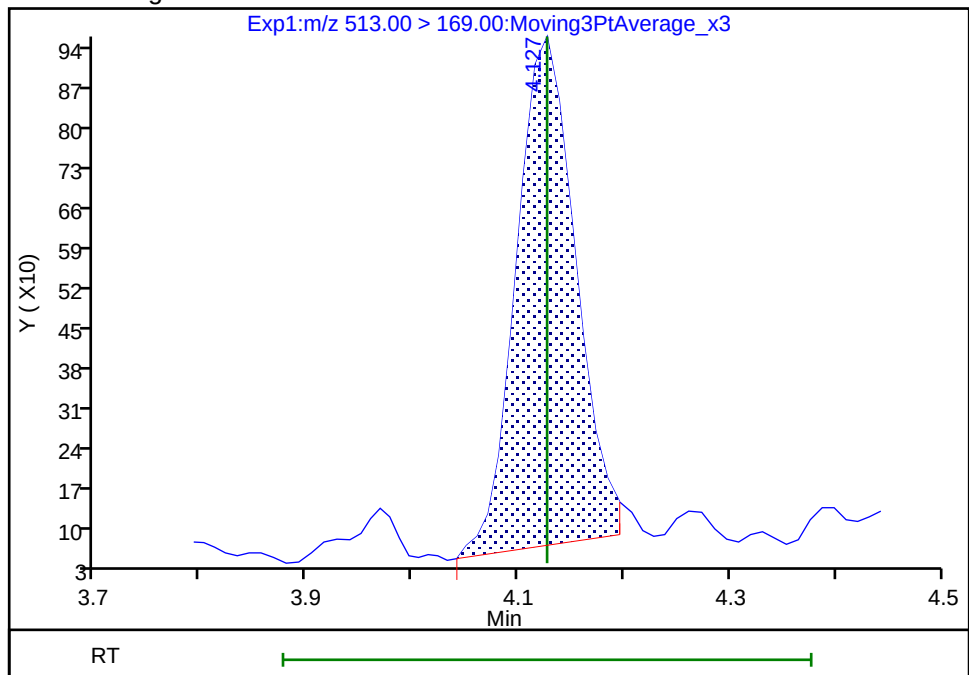
RT: 4.13
Area: 3339
Amount: 0.022906
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 3470
Amount: 0.023310
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:10:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 815 of 97811/21/2022
4:10 PM

Eurofins Burlington

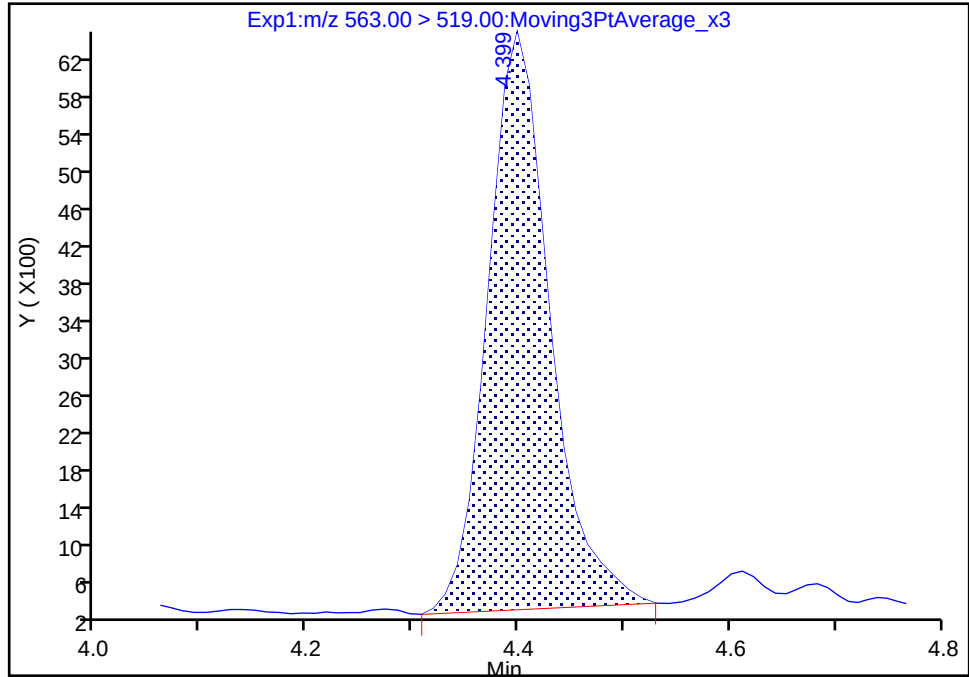
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

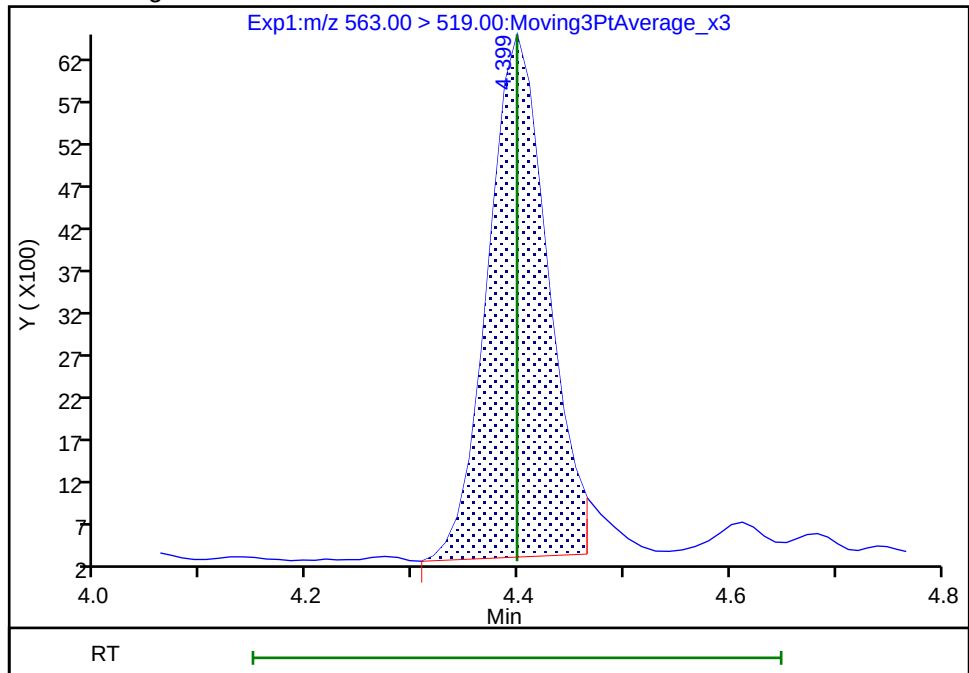
RT: 4.40
Area: 25247
Amount: 0.021269
Amount Units: ng/ml

Processing Integration Results



RT: 4.40
Area: 24234
Amount: 0.020416
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 816 of 978

11/21/2022
4:10 PM

Eurofins Burlington

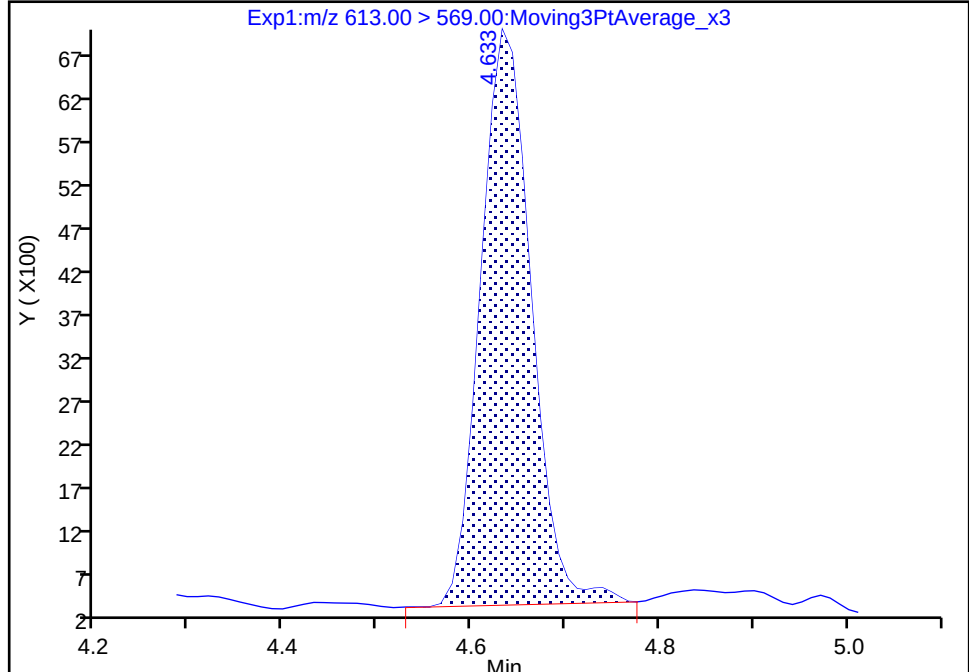
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

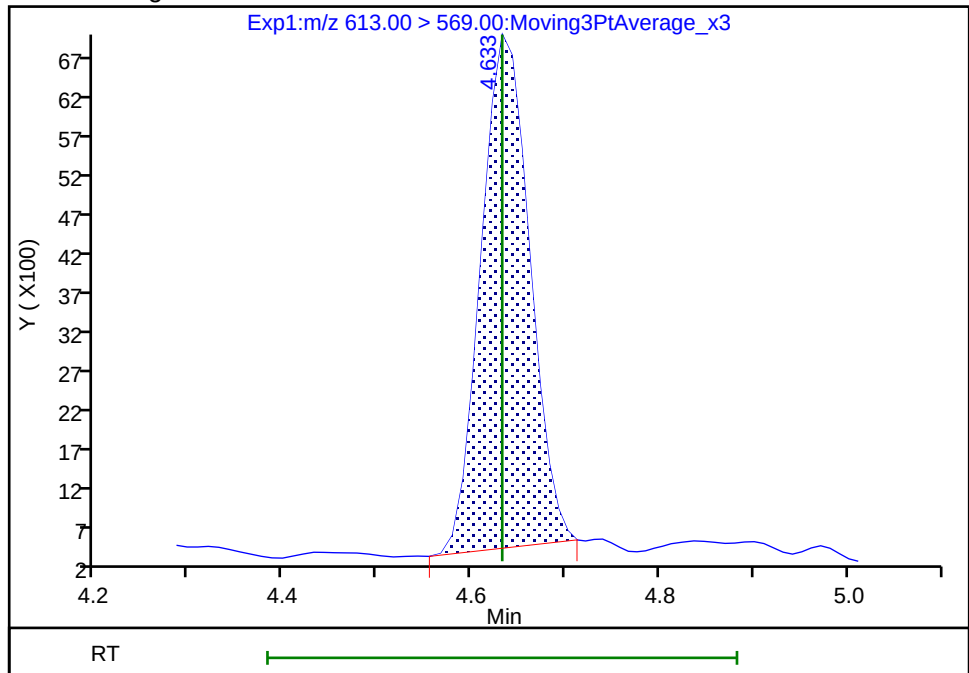
RT: 4.63
Area: 24839
Amount: 0.020446
Amount Units: ng/ml

Processing Integration Results



RT: 4.63
Area: 23610
Amount: 0.019435
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 817 of 978

11/21/2022
4:10 PM

Eurofins Burlington

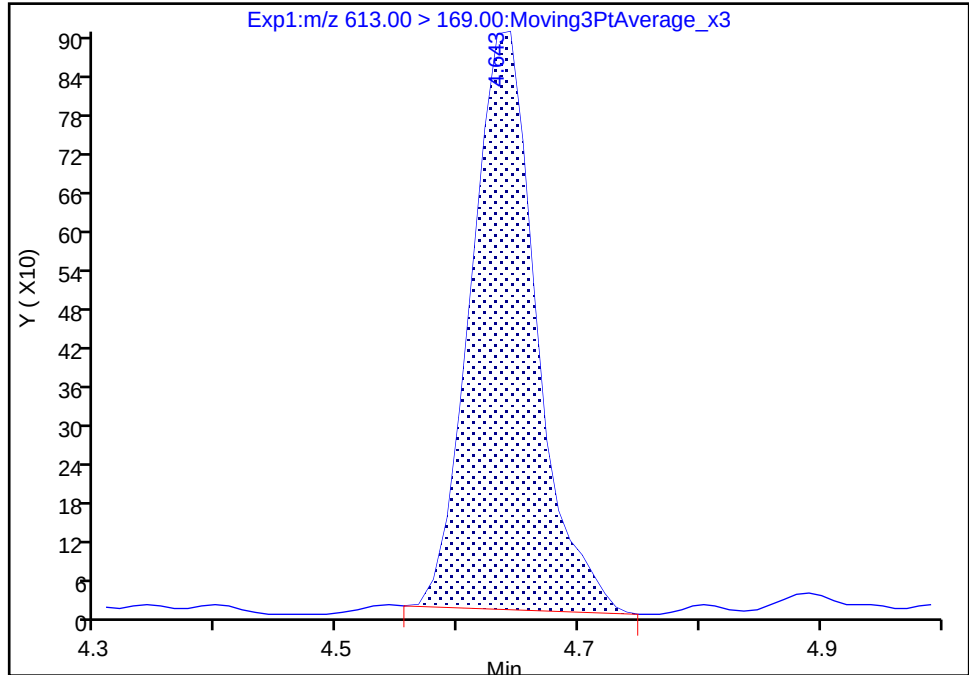
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

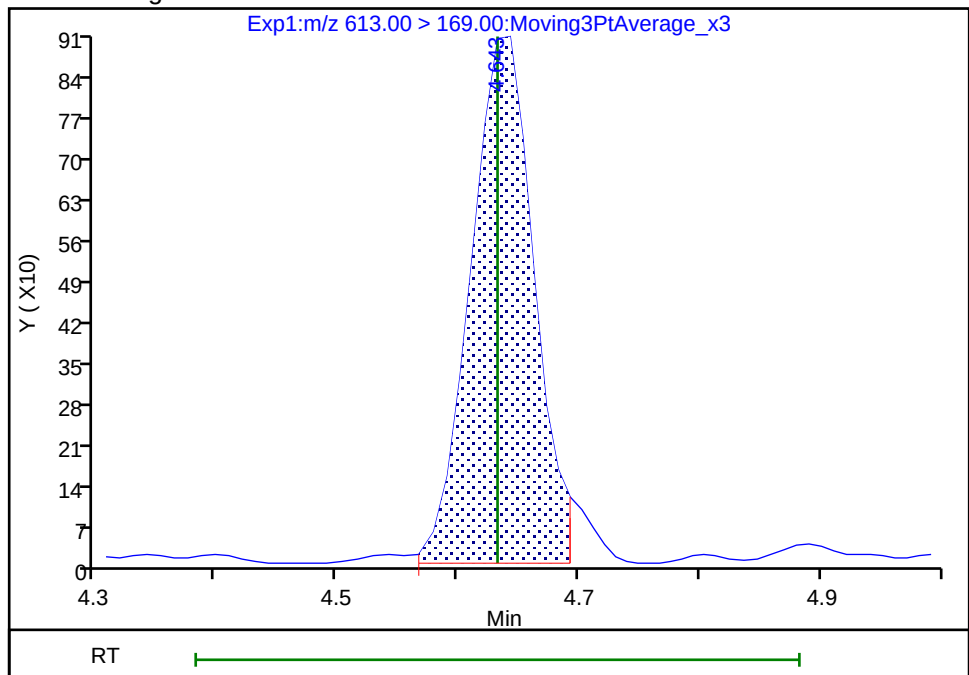
RT: 4.64
Area: 3368
Amount: 0.020446
Amount Units: ng/ml

Processing Integration Results



RT: 4.64
Area: 3287
Amount: 0.019435
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 818 of 97811/21/2022
4:10 PM

Eurofins Burlington

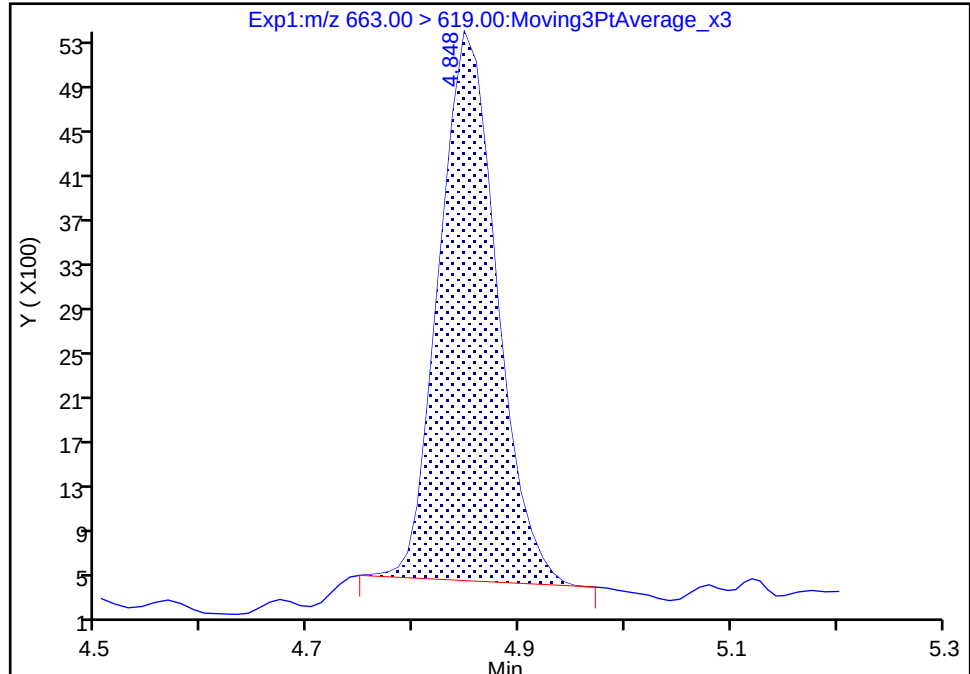
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

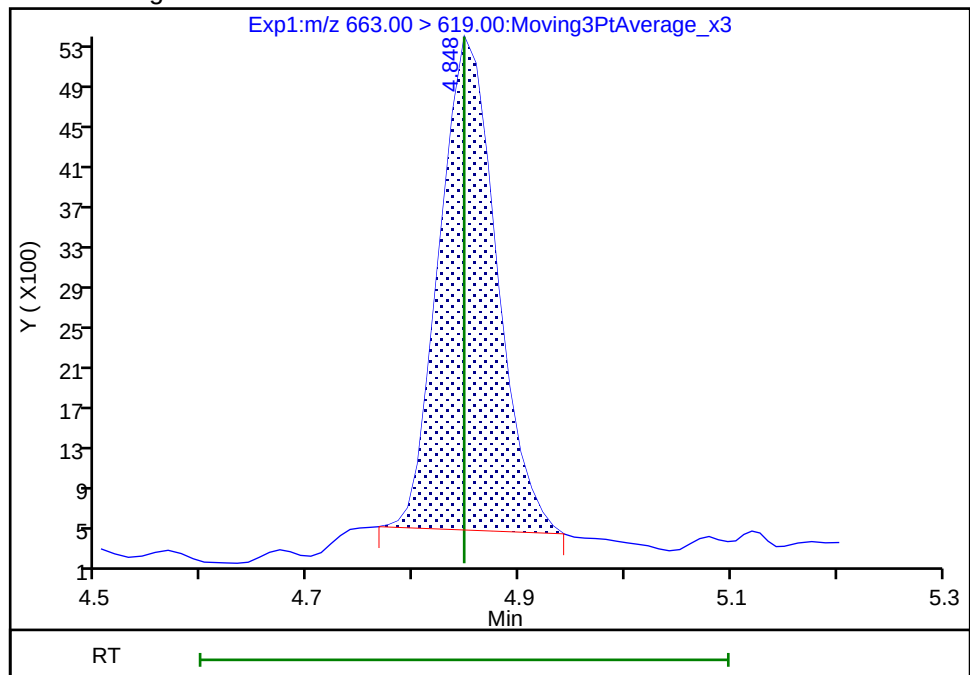
RT: 4.85
Area: 18476
Amount: 0.016594
Amount Units: ng/ml

Processing Integration Results



RT: 4.85
Area: 18172
Amount: 0.016321
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 819 of 978

11/21/2022
4:10 PM

Eurofins Burlington

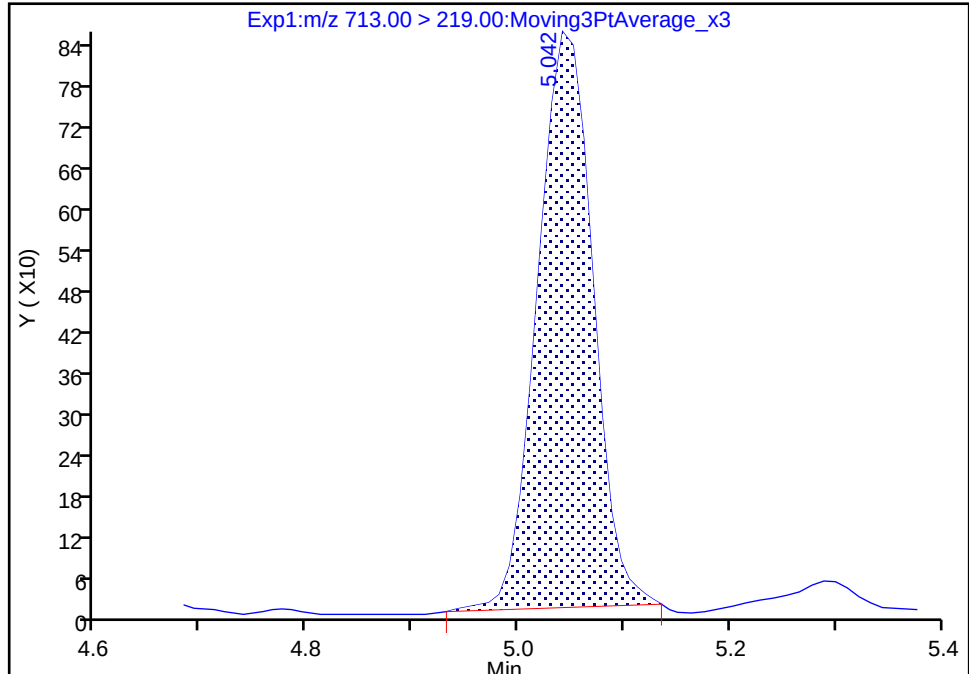
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

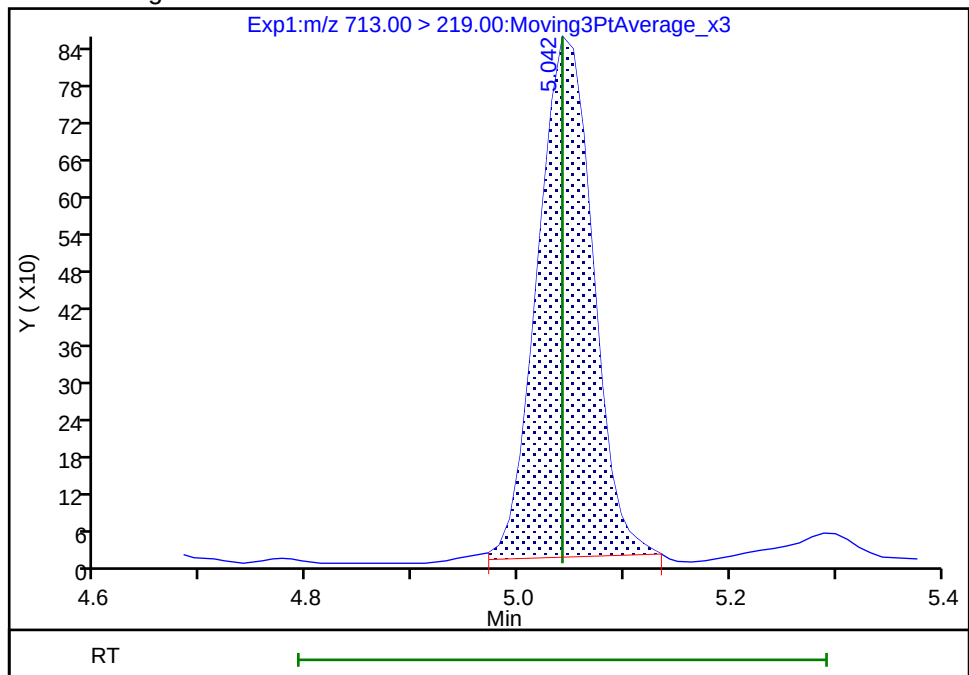
RT: 5.04
Area: 3090
Amount: 0.019586
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 3077
Amount: 0.019700
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 820 of 978

11/21/2022
4:10 PM

Eurofins Burlington

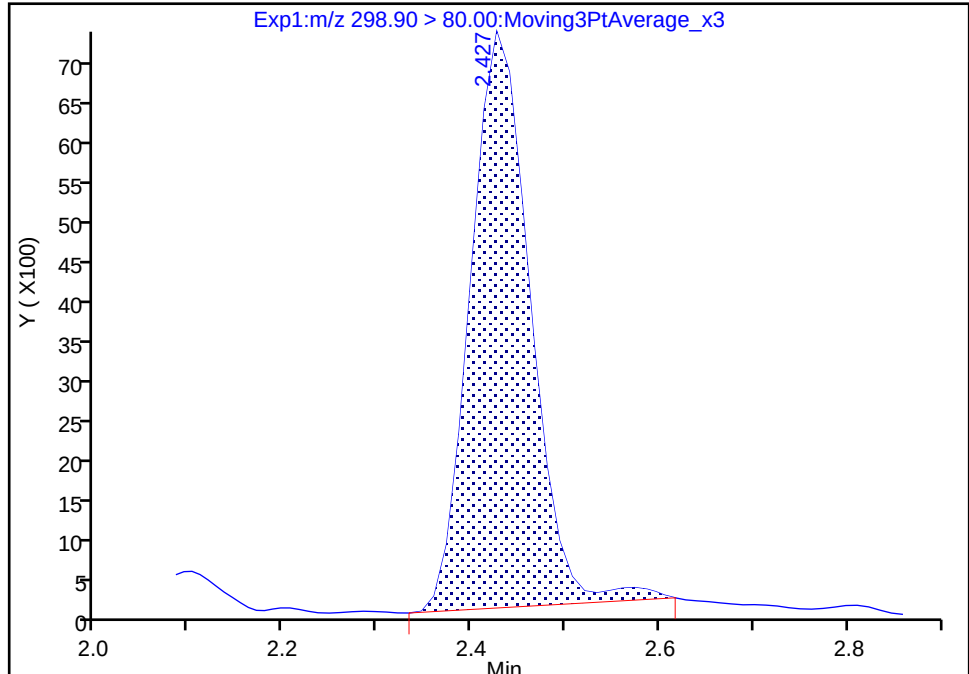
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

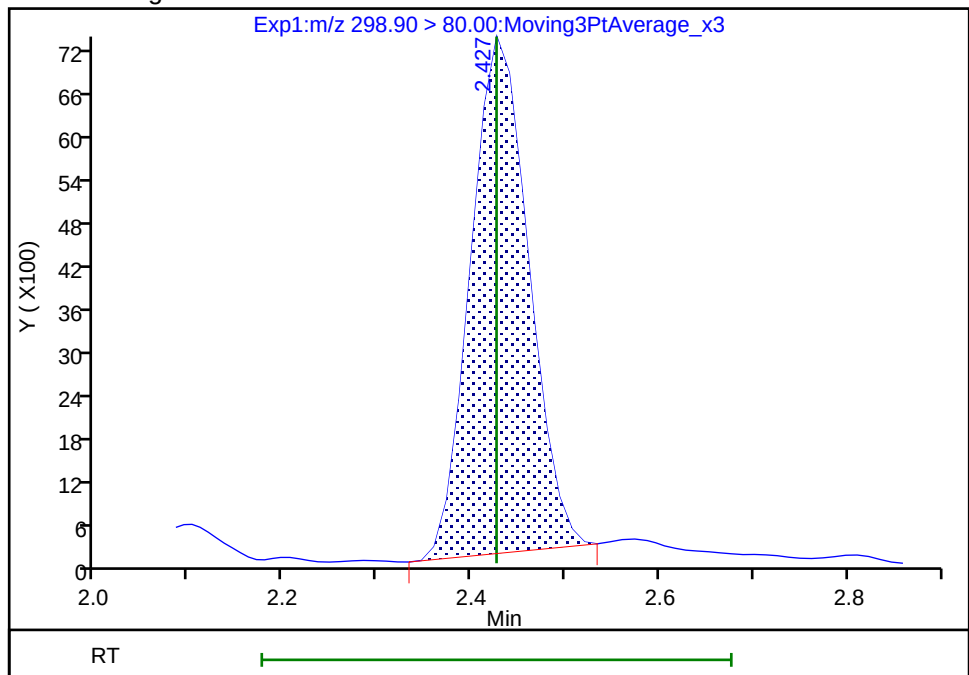
RT: 2.43
Area: 31747
Amount: 0.020803
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 30484
Amount: 0.019975
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:06:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 821 of 978

11/21/2022
4:10 PM

Eurofins Burlington

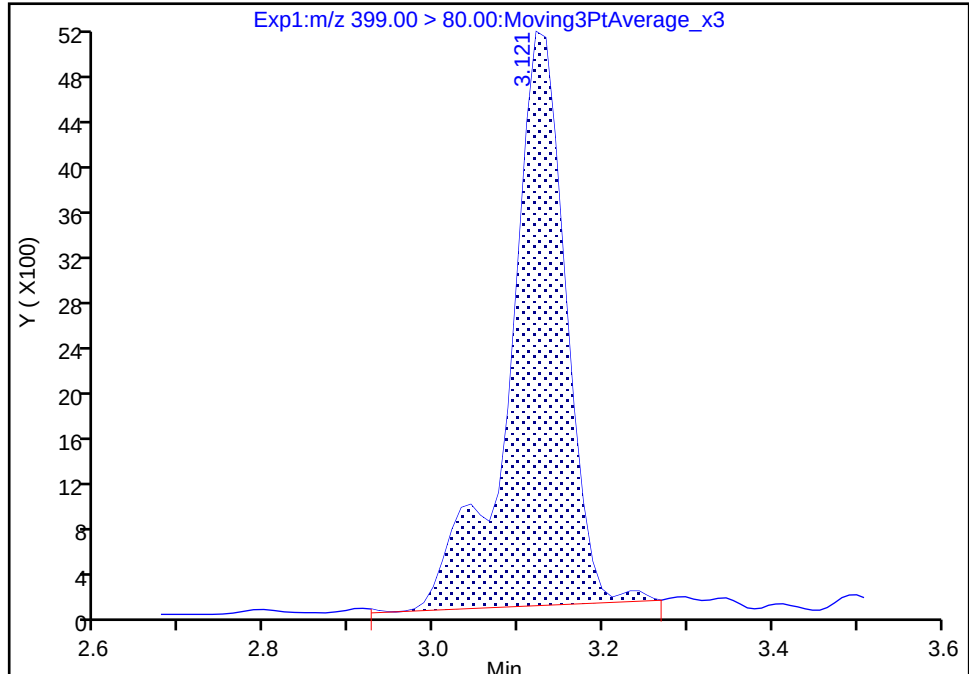
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

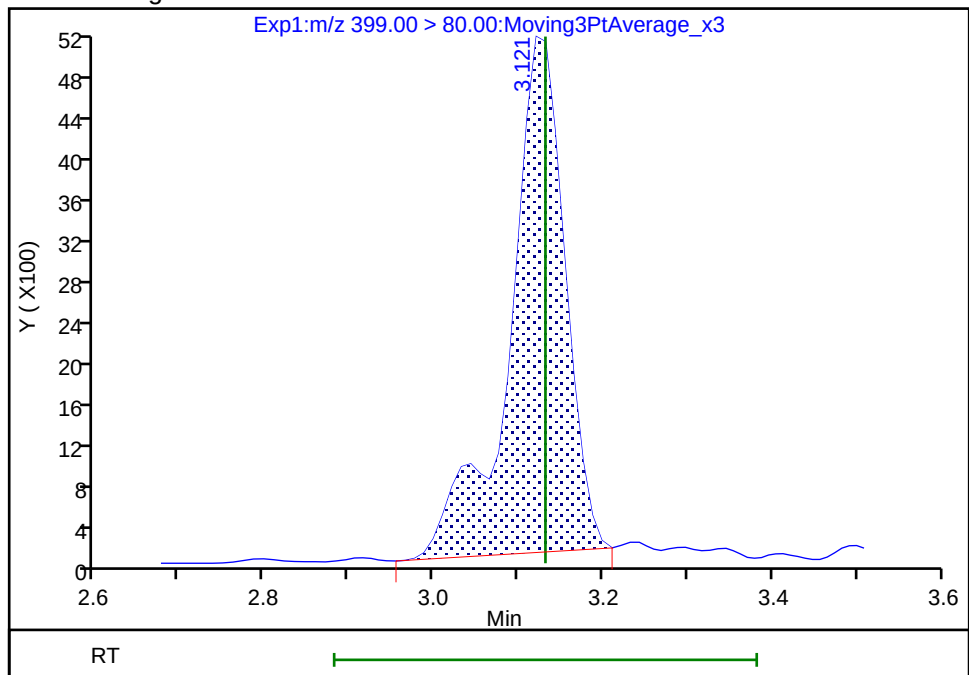
RT: 3.12
Area: 23459
Amount: 0.021549
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 22905
Amount: 0.021040
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:08:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 822 of 978

11/21/2022
4:10 PM

Eurofins Burlington

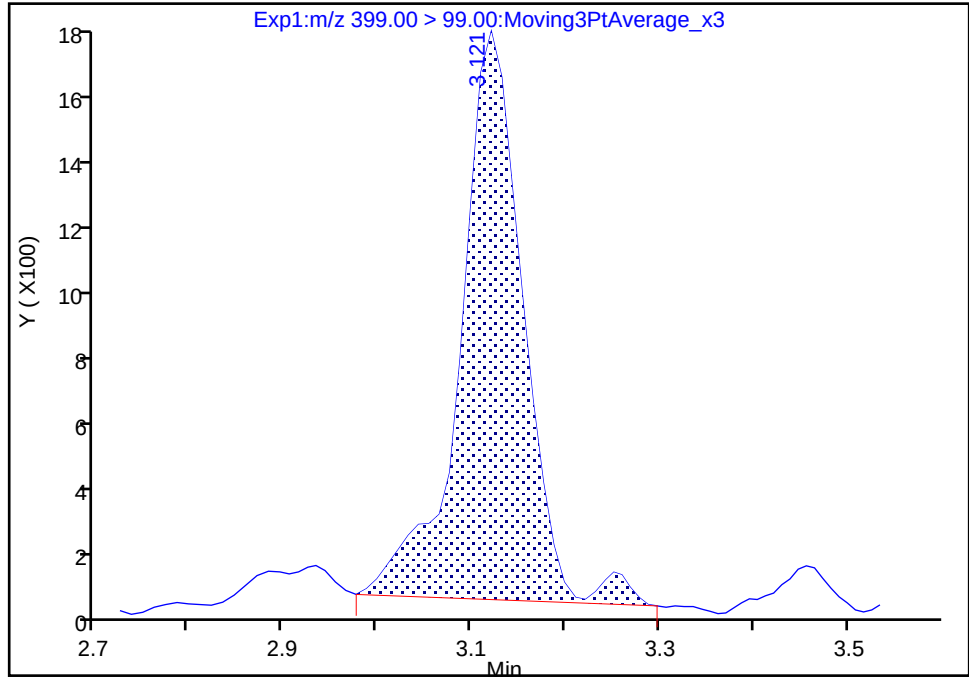
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

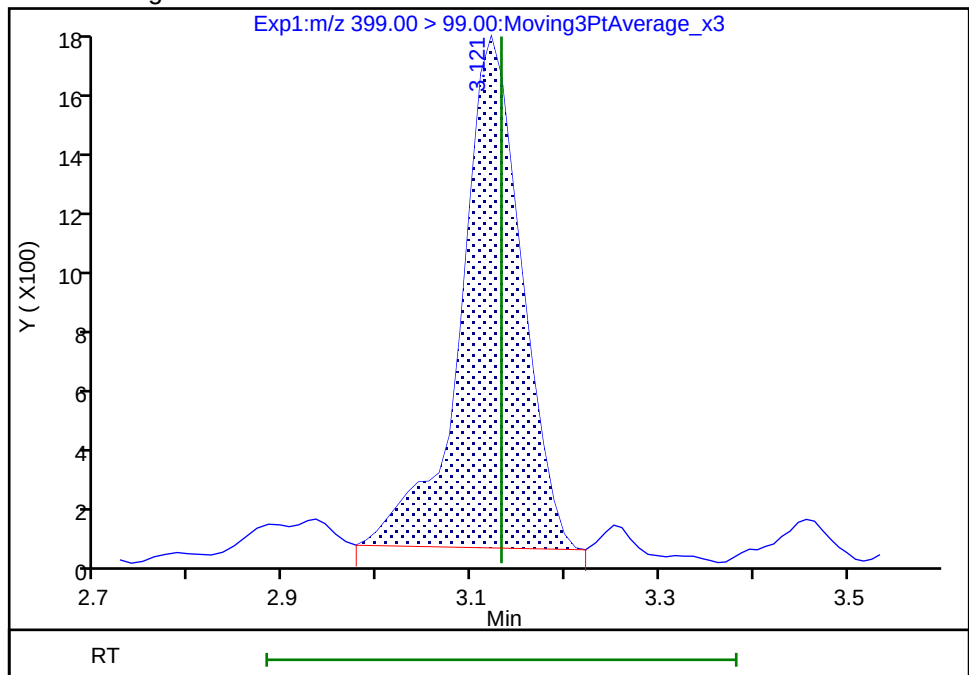
RT: 3.12
Area: 7876
Amount: 0.021549
Amount Units: ng/ml

Processing Integration Results



RT: 3.12
Area: 7590
Amount: 0.021040
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:08:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 823 of 97811/21/2022
4:10 PM

Eurofins Burlington

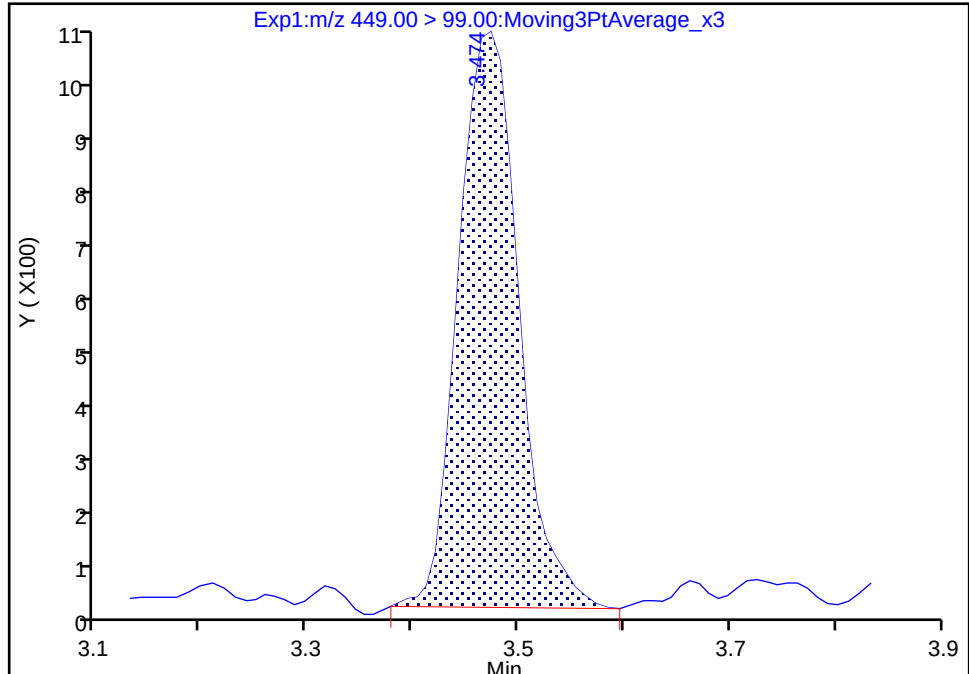
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

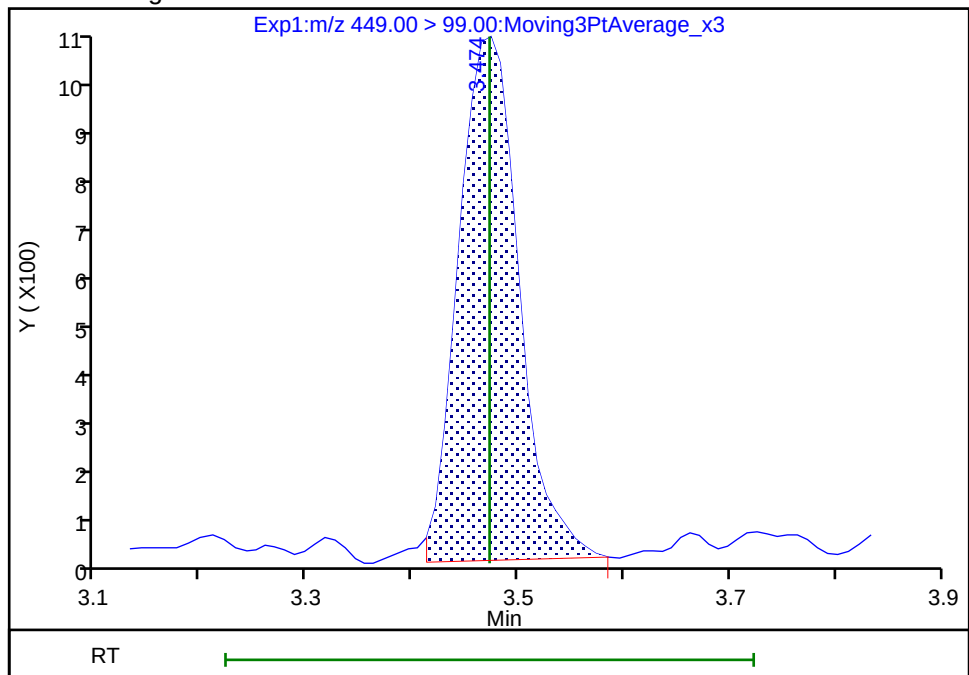
RT: 3.47
Area: 4010
Amount: 0.020858
Amount Units: ng/ml

Processing Integration Results



RT: 3.47
Area: 4030
Amount: 0.020858
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:08:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 824 of 978

11/21/2022
4:10 PM

Eurofins Burlington

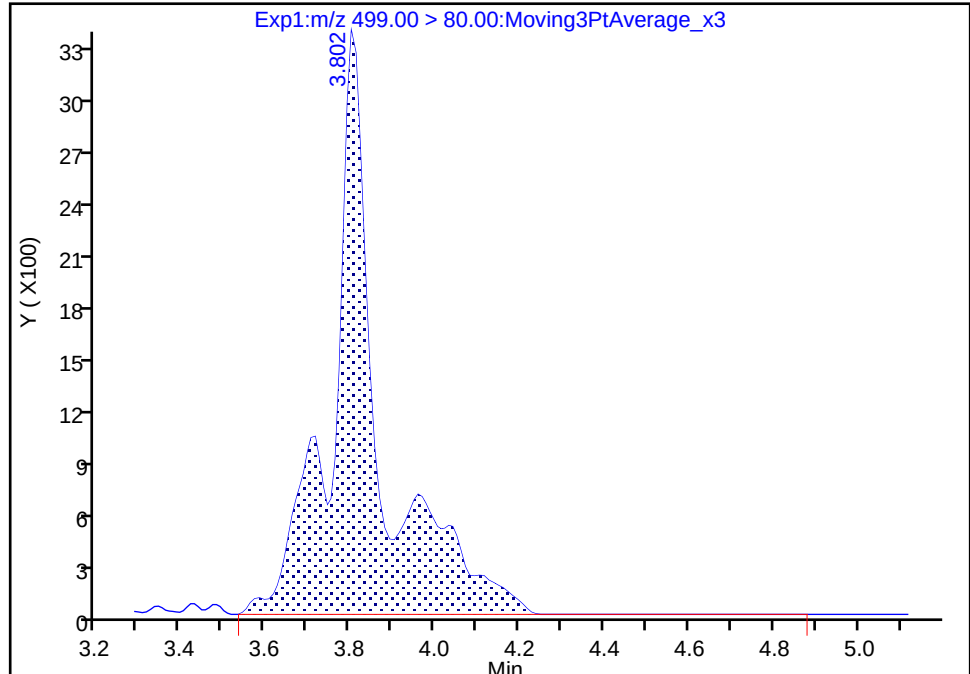
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

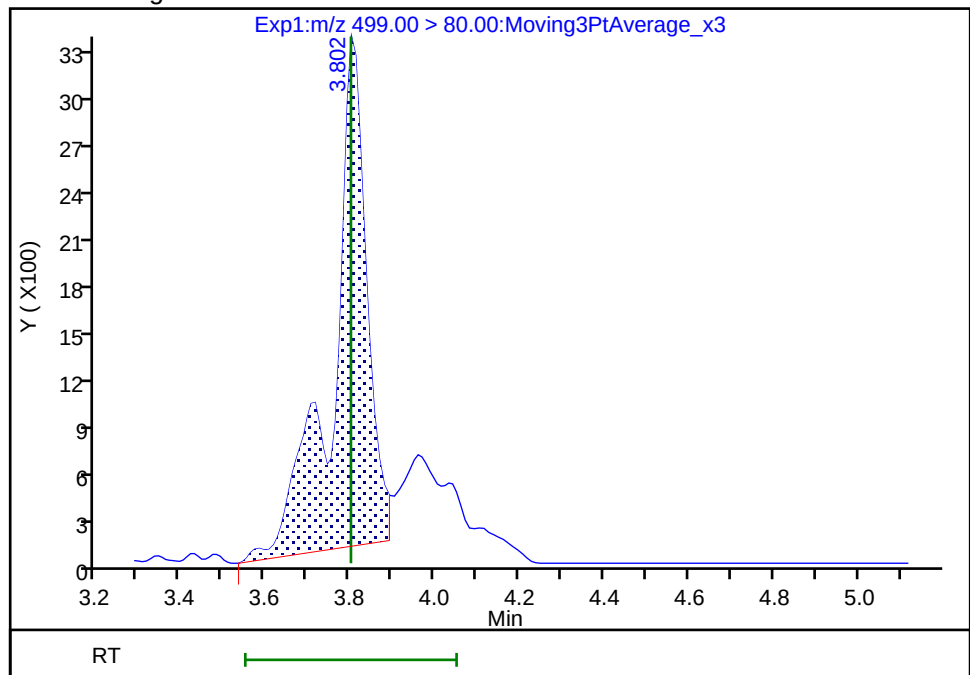
RT: 3.80
Area: 26680
Amount: 0.035369
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 18093
Amount: 0.023986
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:09:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 825 of 978

11/21/2022
4:10 PM

Eurofins Burlington

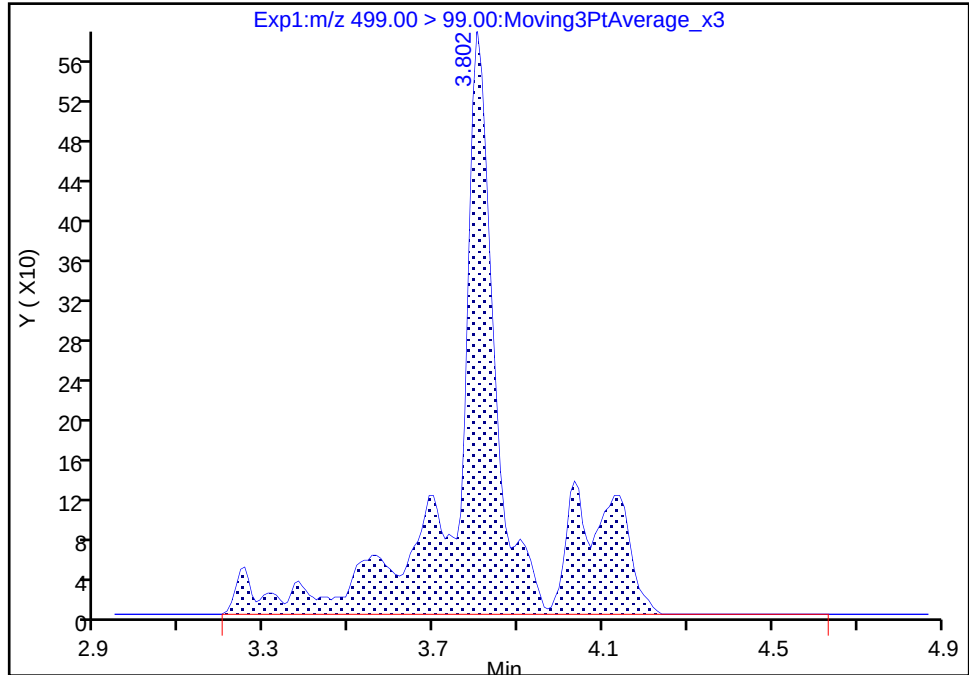
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

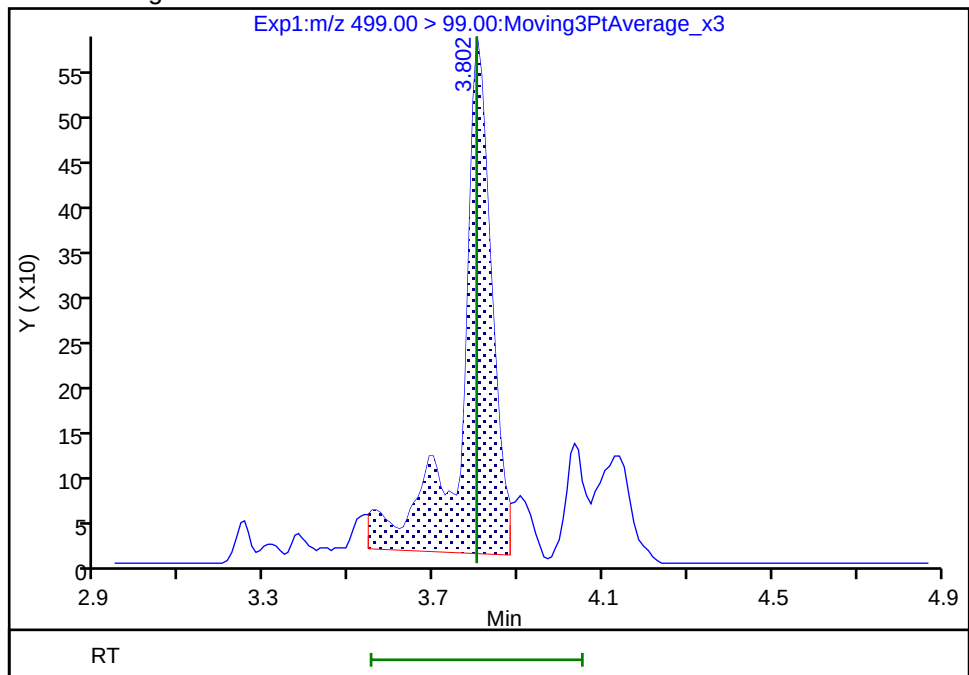
RT: 3.80
Area: 4915
Amount: 0.035369
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 2859
Amount: 0.023986
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:09:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 826 of 97811/21/2022
4:10 PM

Eurofins Burlington

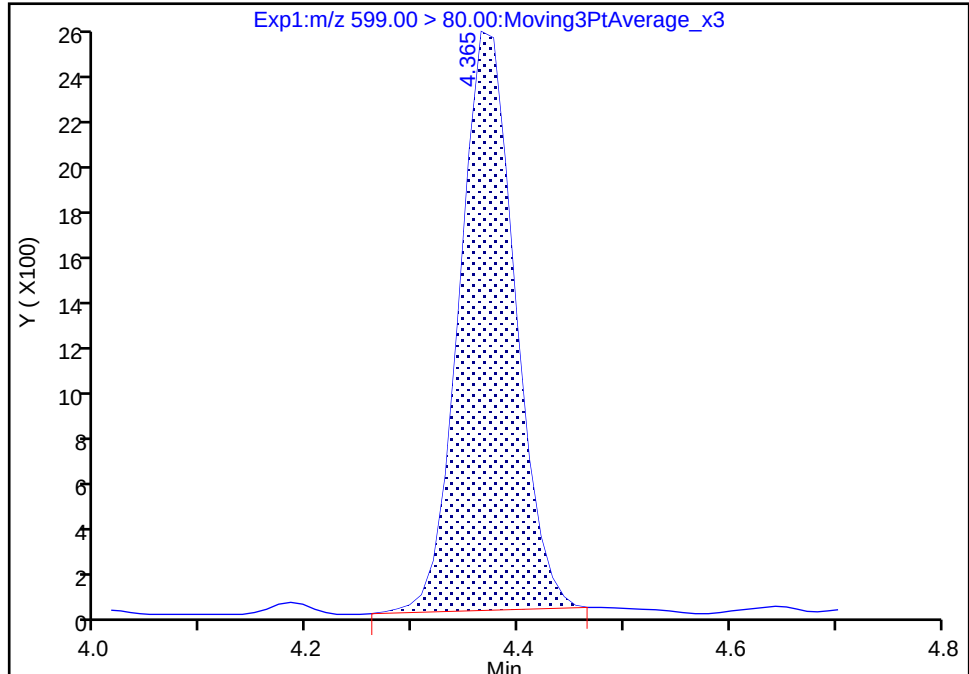
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

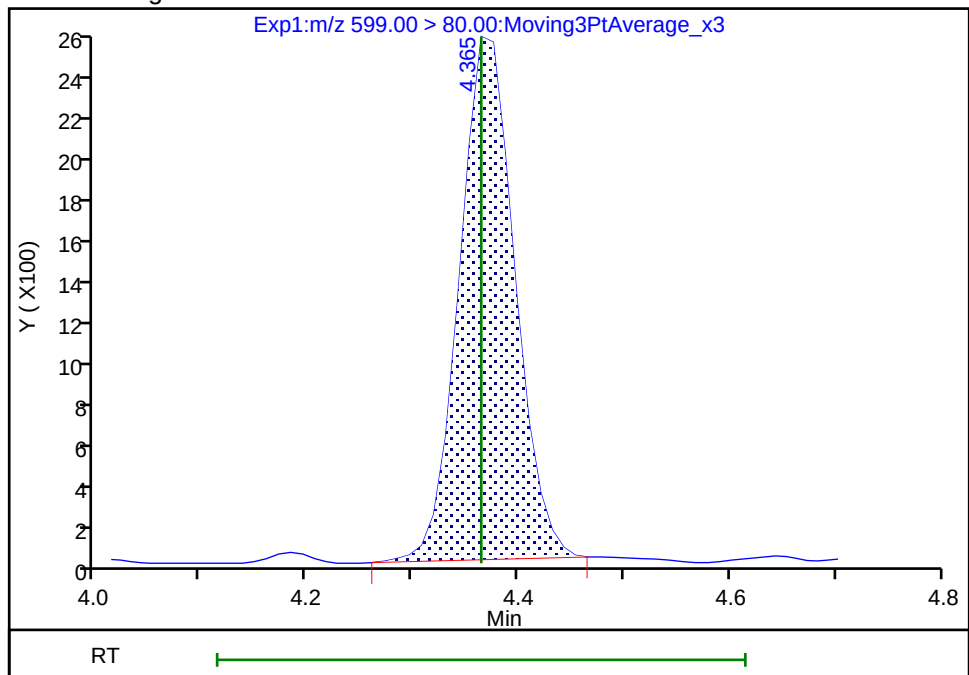
RT: 4.36
Area: 9118
Amount: 0.021285
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 9118
Amount: 0.021285
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 827 of 978

11/21/2022
4:10 PM

Eurofins Burlington

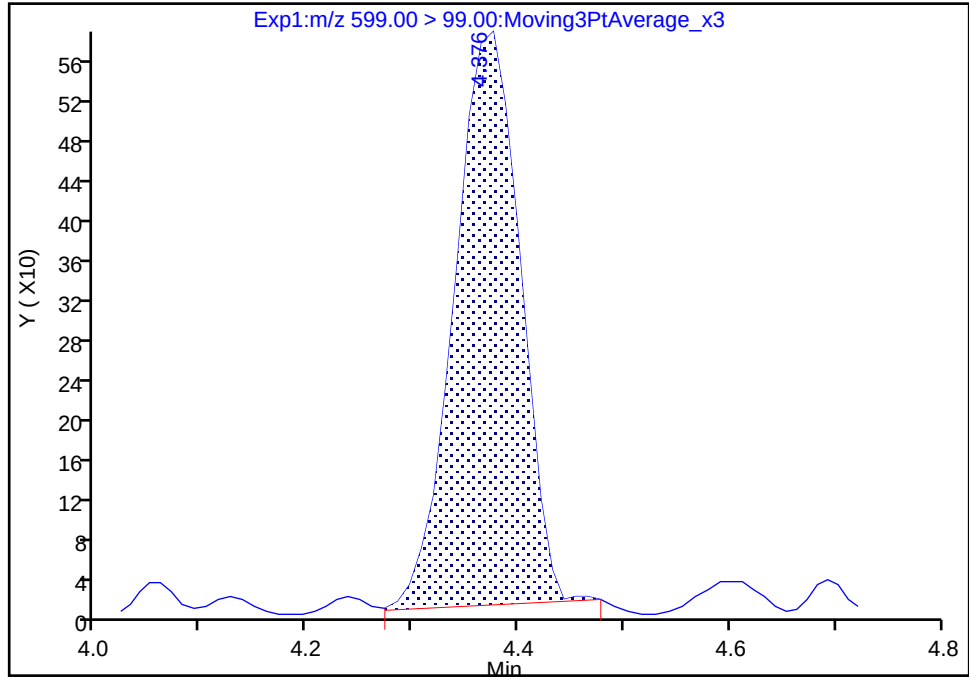
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

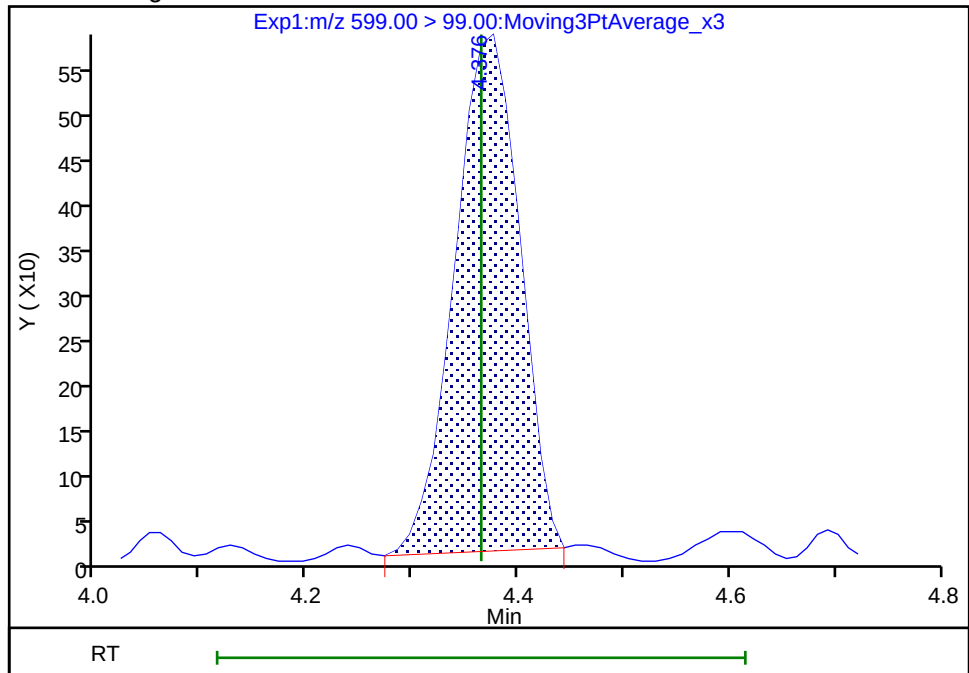
RT: 4.38
Area: 2503
Amount: 0.021285
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 2478
Amount: 0.021285
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

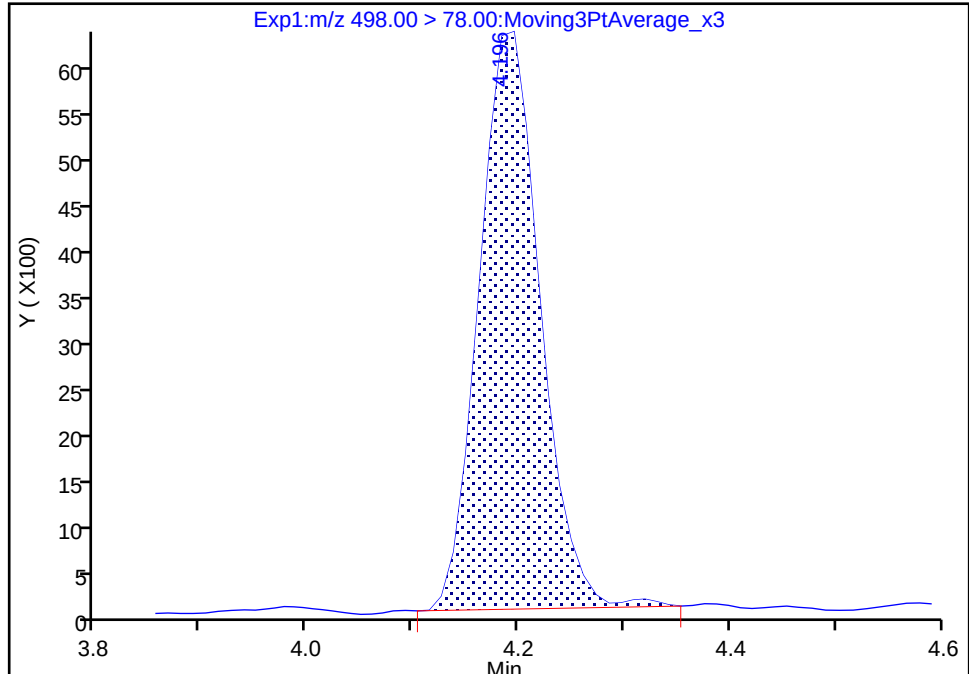
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

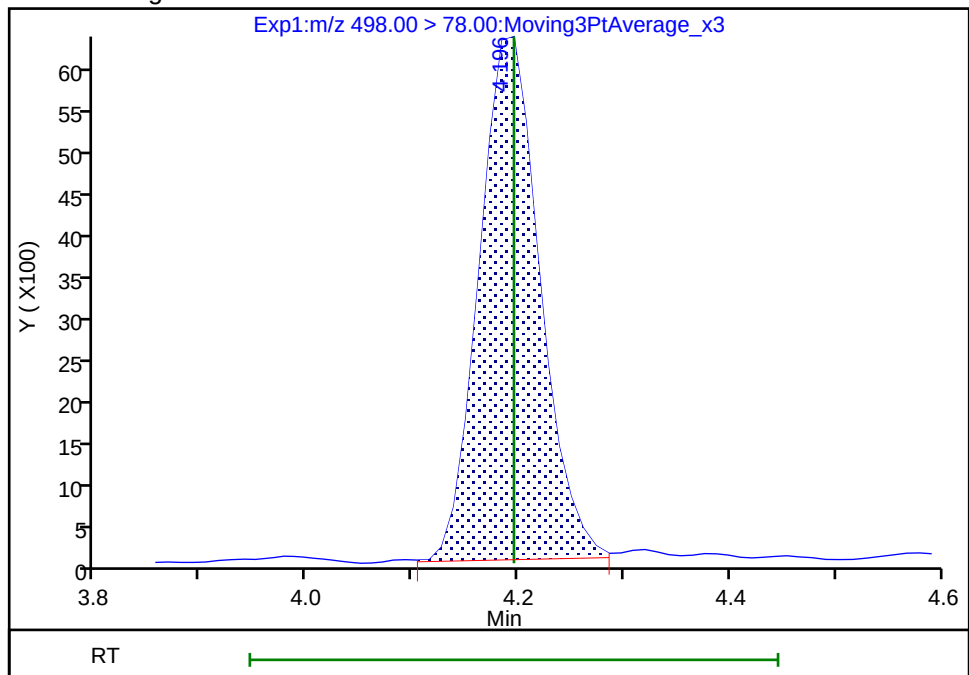
RT: 4.20
Area: 25172
Amount: 0.021420
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 25131
Amount: 0.021386
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 829 of 978

11/21/2022
4:10 PM

Eurofins Burlington

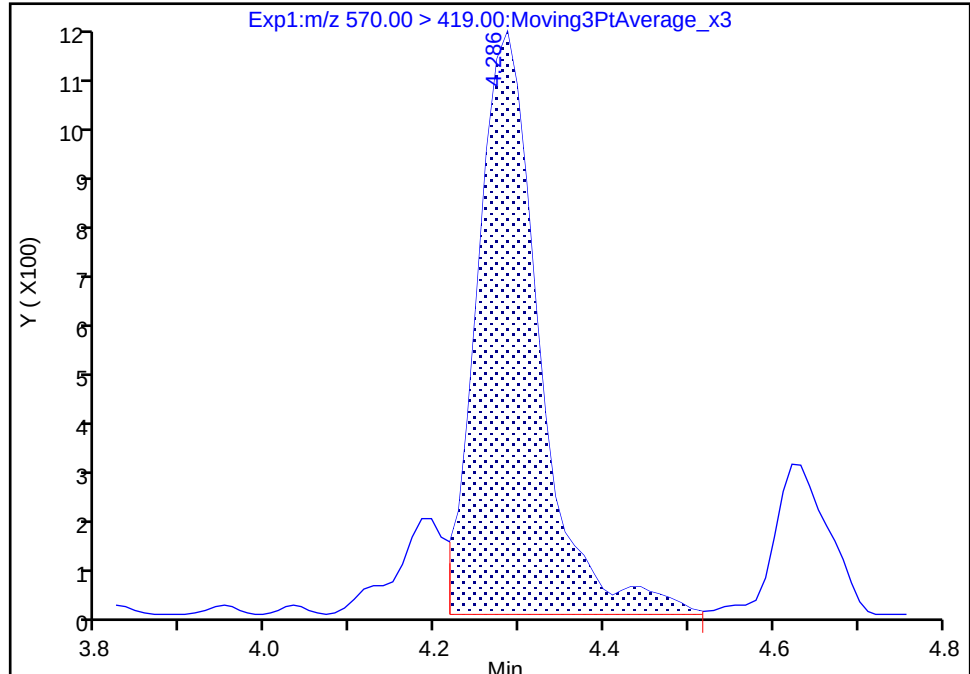
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

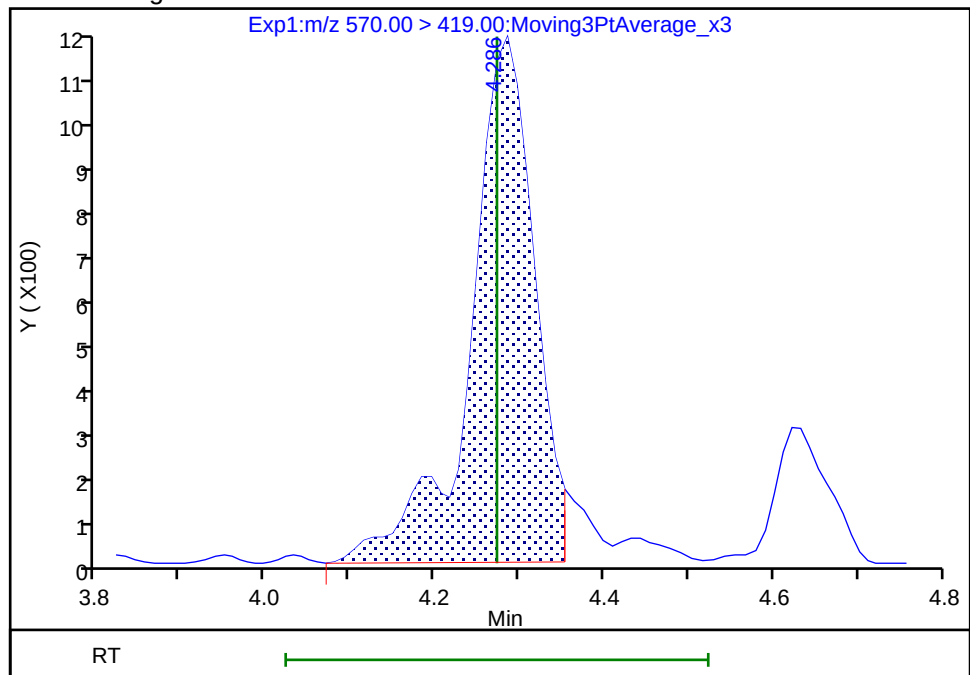
RT: 4.29
Area: 6114
Amount: 0.034713
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 6306
Amount: 0.035803
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 830 of 978

11/21/2022
4:10 PM

Eurofins Burlington

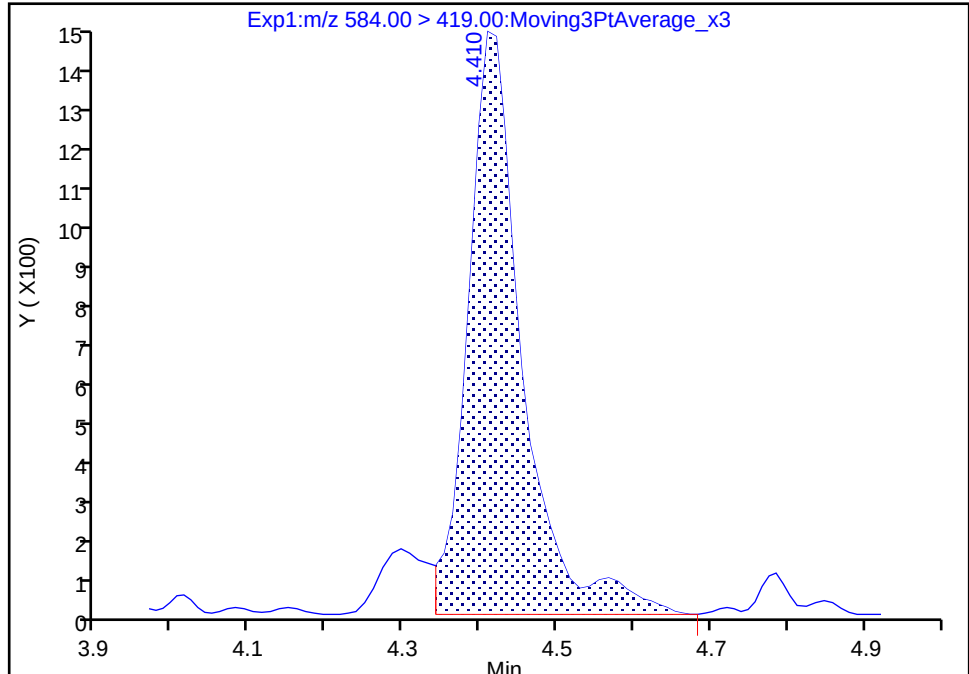
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

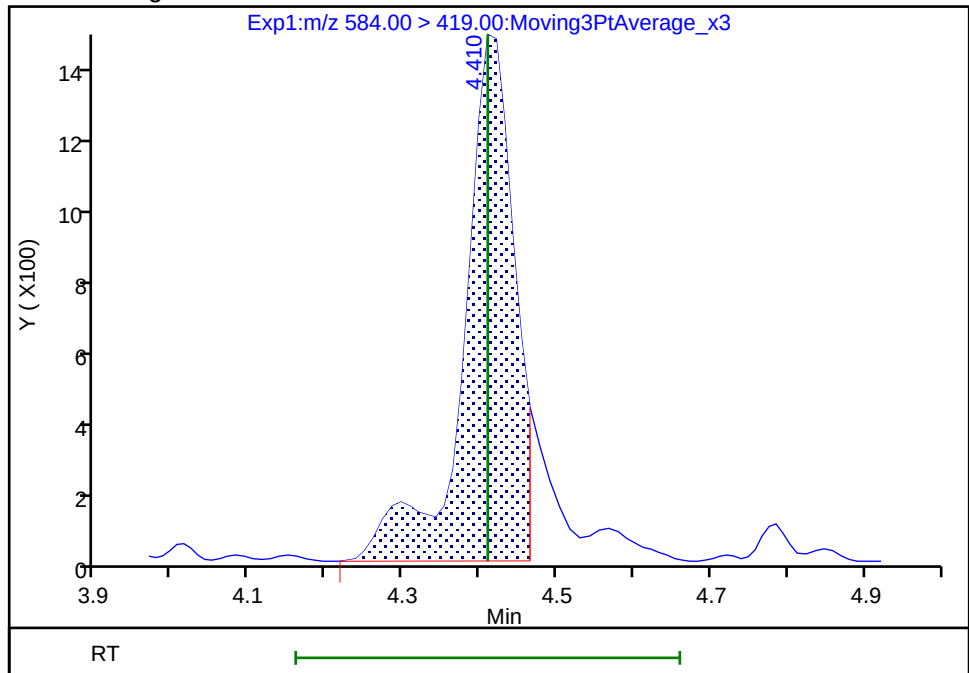
RT: 4.41
Area: 7046
Amount: 0.039170
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 6546
Amount: 0.036390
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 831 of 978

11/21/2022
4:10 PM

Eurofins Burlington

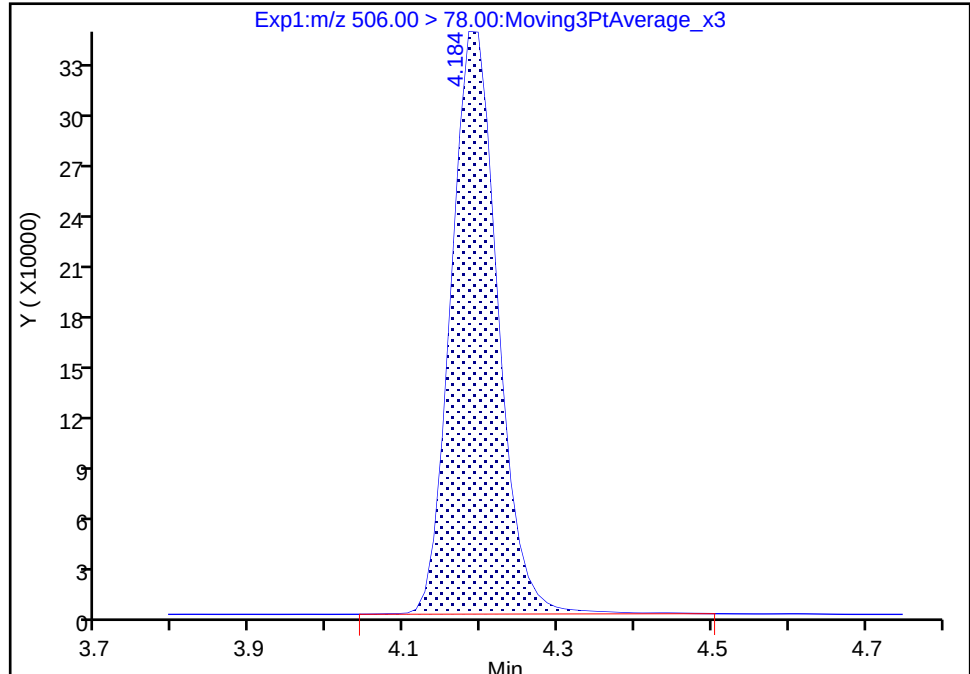
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

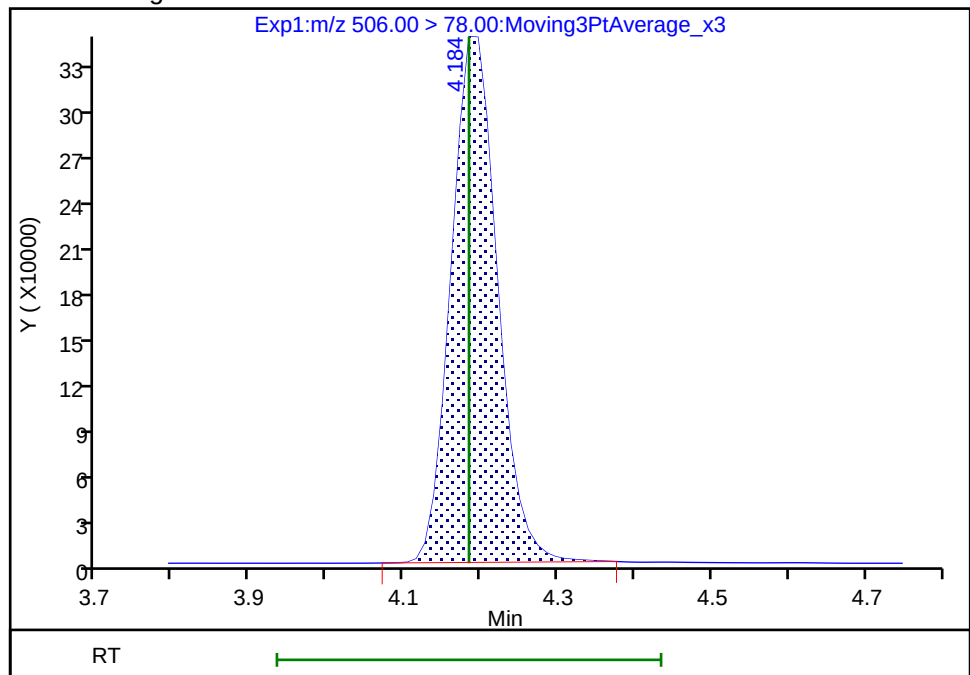
RT: 4.18
Area: 1465557
Amount: 1.240351
Amount Units: ng/ml

Processing Integration Results



RT: 4.18
Area: 1454550
Amount: 1.231036
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:10:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

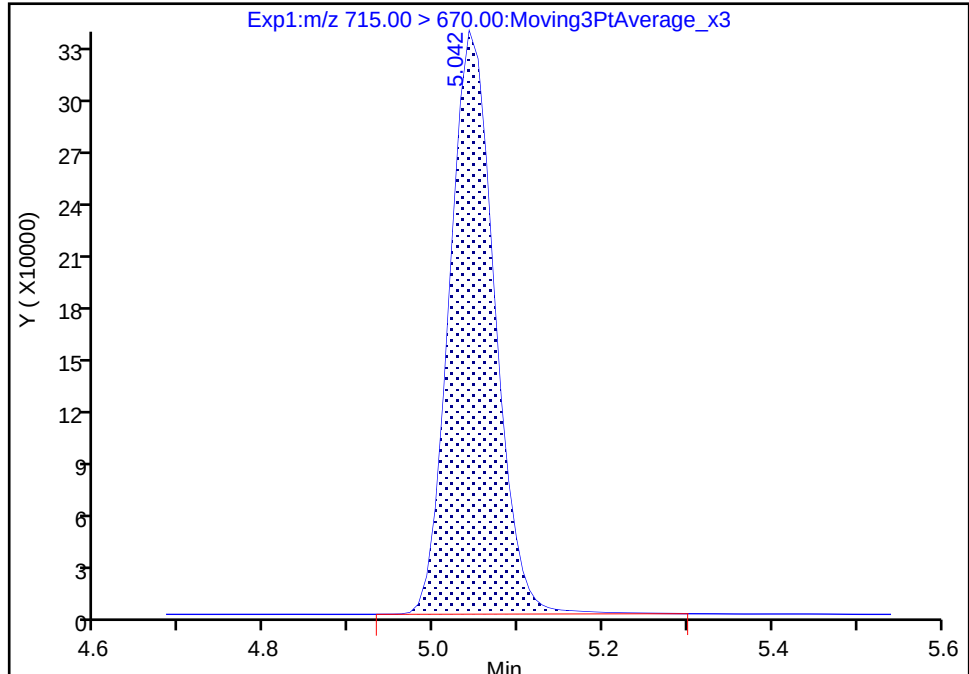
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

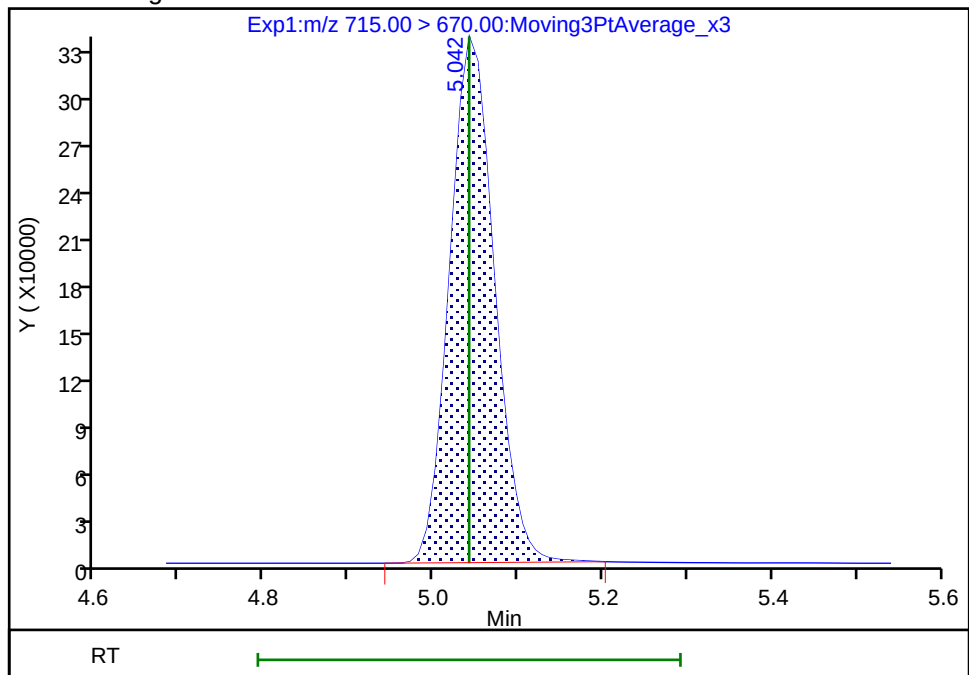
RT: 5.04
Area: 1221944
Amount: 1.234562
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 1214863
Amount: 1.227408
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:12:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 833 of 978

11/21/2022
4:10 PM

Eurofins Burlington

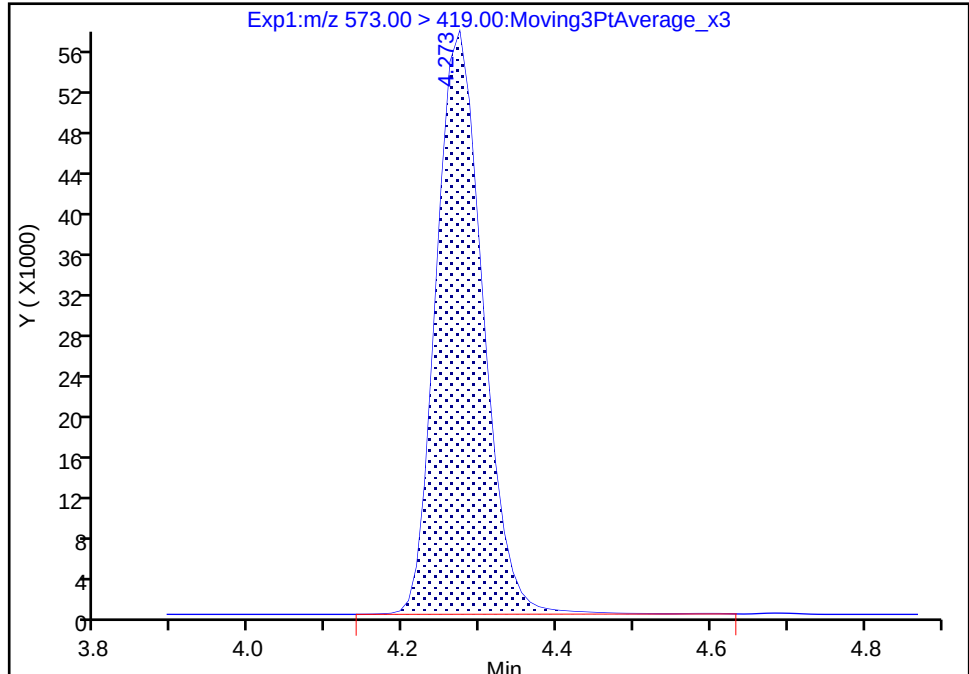
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

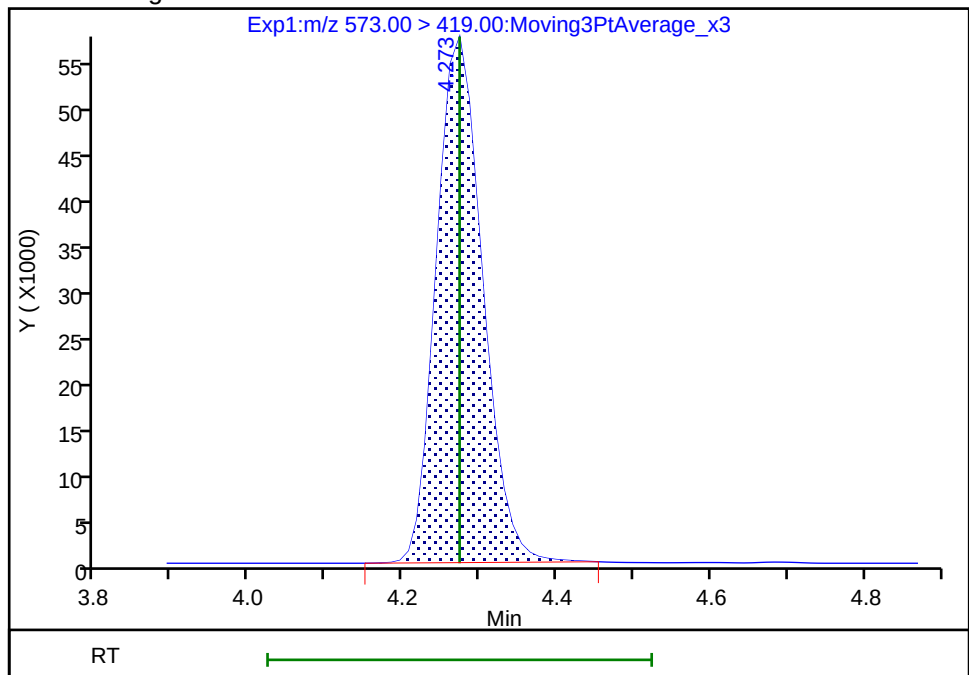
RT: 4.27
Area: 239747
Amount: 1.173726
Amount Units: ng/ml

Processing Integration Results



RT: 4.27
Area: 238068
Amount: 1.165506
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:11:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 834 of 978

11/21/2022
4:10 PM

Eurofins Burlington

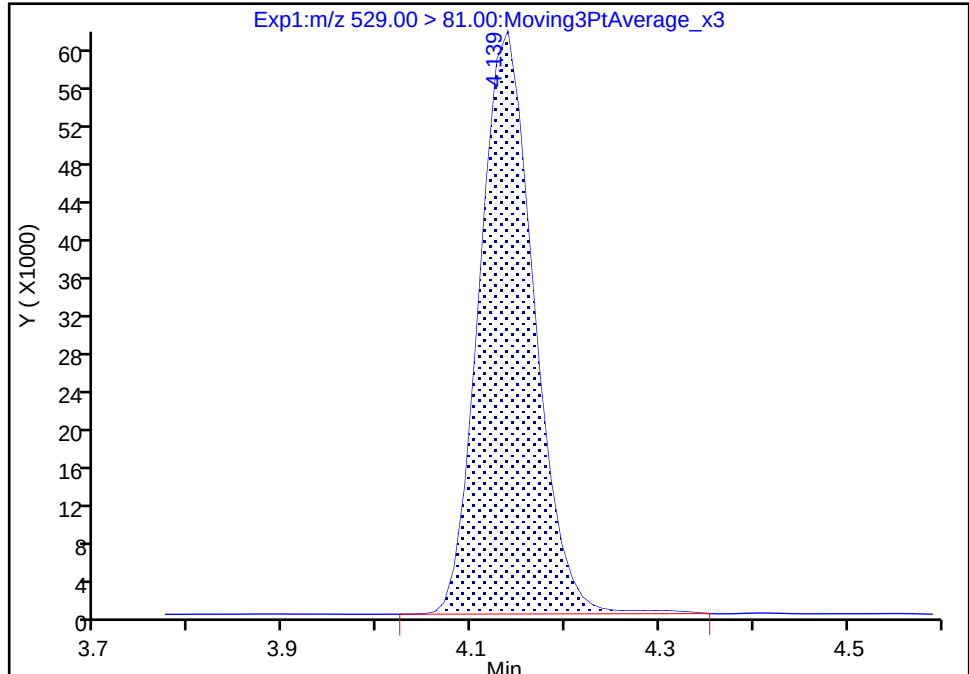
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

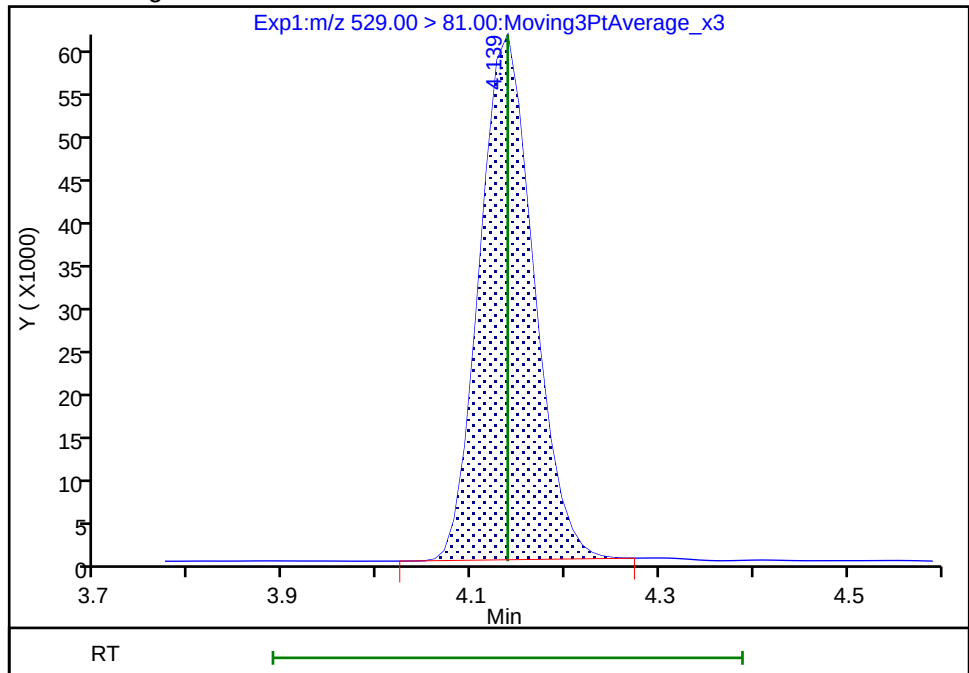
RT: 4.14
Area: 247576
Amount: 1.193288
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 244328
Amount: 1.177633
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:10:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

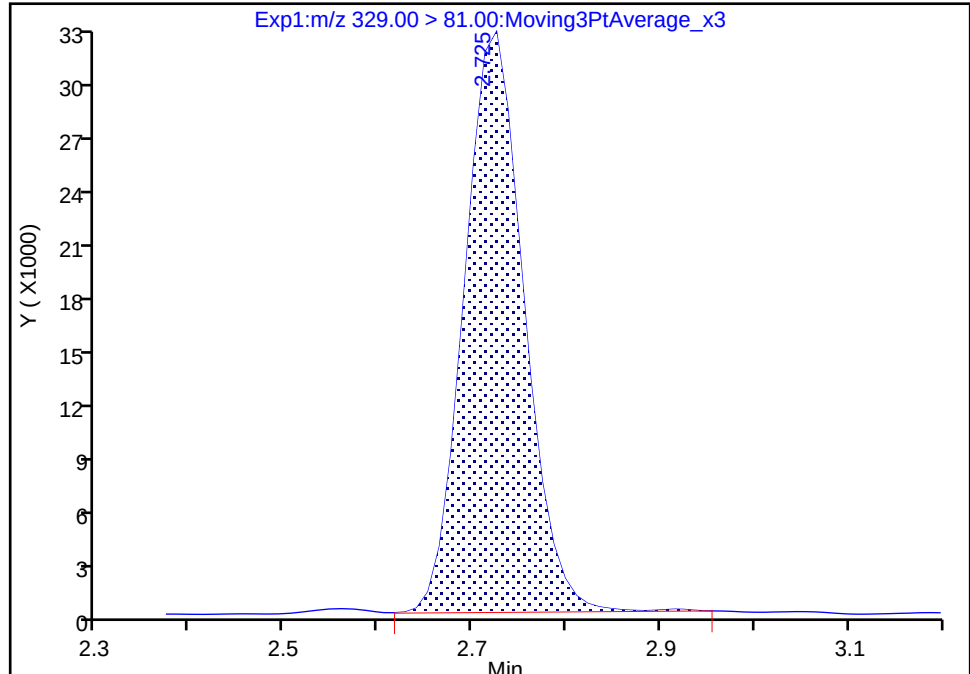
Data File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914\ICAL11.d
Injection Date: 14-Sep-2022 11:22:43 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

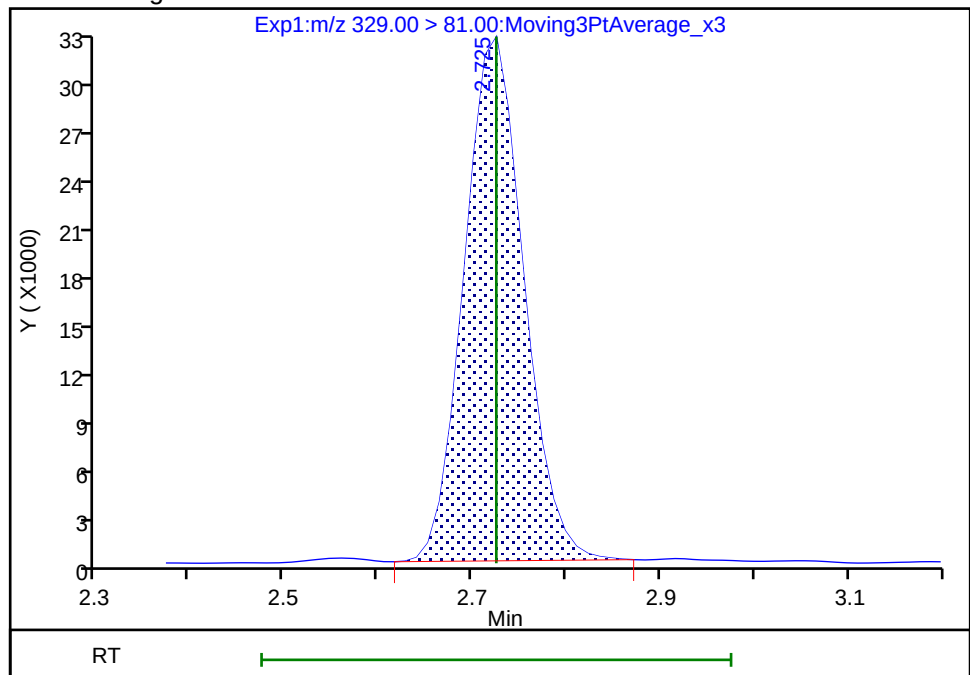
RT: 2.73
Area: 142429
Amount: 1.091981
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 141487
Amount: 1.084759
Amount Units: ng/ml

Manual Integration Results



Reviewer: Z1IP, 14-Sep-2022 12:07:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-185793/2-A
 Matrix: Solid Lab File ID: PA221116D03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.00 (g) Date Analyzed: 11/16/2022 20:20
 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.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.885		0.50	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.873		0.20	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	1.773		0.20	0.046
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.842		0.20	0.039
335-67-1	Perfluorooctanoic acid (PFOA)	1.901		0.20	0.058
375-95-1	Perfluorononanoic acid (PFNA)	1.837		0.20	0.034
335-76-2	Perfluorodecanoic acid (PFDA)	1.918		0.20	0.028
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.979		0.20	0.027
307-55-1	Perfluorododecanoic acid (PFDoA)	1.882		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.787		0.20	0.025
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.607		0.20	0.026
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.691		0.20	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.703		0.20	0.041
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.776		0.20	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.682		0.20	0.11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.675		0.20	0.019
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.896		0.20	0.034
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.880	J	2.00	0.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.821	J	2.00	0.083
27619-97-2	6:2 FTS	2.085		2.00	0.057
39108-34-4	8:2 FTS	2.342		2.00	0.037

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-185793/2-A
 Matrix: Solid Lab File ID: PA221116D03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.00(g) Date Analyzed: 11/16/2022 20:20
 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.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	78		50-150
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	83		50-150
STL00991	13C4 PFOS	84		50-150
STL00995	13C5 PFNA	86		50-150
STL00992	13C4 PFBA	68		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	86		50-150
STL00997	13C2 PFUnA	89		50-150
STL00998	13C2 PFDoA	81		50-150
STL01056	13C8 FOSA	84		50-150
STL01893	13C5 PFPeA	76		50-150
STL02116	13C2 PFTeDA	75		50-150
STL02118	d3-NMeFOSAA	123		50-150
STL02117	d5-NEtFOSAA	122		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02280	M2-8:2 FTS	86		50-150
STL02337	13C3 PFBS	77		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d
 Lims ID: LCS 200-185793/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Nov-2022 20:20:59 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-185793/2-A
 Misc. Info.: 200-0053360-003 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:21 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 13:54:24

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	2.068	2.068	0.0	0.600	1978370	0.8516		68.1	6095	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.068	2.076	-0.008	1.000	1510046	0.9424		94.2	119	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.373	2.373	0.0	0.688	1726137	0.9444		75.6	2683	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.373	2.373	0.0	1.000	1383628	0.9365		93.7	31.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.387	2.386	0.001	0.692	1666038	0.8997		77.4	181622	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.387	2.400	-0.013	1.000	1396672	0.8454	Target=2.19	95.6	1388	M
298.90 > 99.00	2.387	2.400	-0.013	1.000	644561		2.17(1.09-3.28)		268	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.677	2.689	-0.012	1.000	350500	0.9464		101	1298	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.677	2.689	-0.012	0.776	159385	0.9496		81.3	156	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.713	2.725	-0.012	0.787	1870796	1.01		80.5	2947	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.713	2.725	-0.012	1.000	1440558	0.8866	Target=13.67	88.7	249	M
313.00 > 119.00	2.713	2.725	-0.012	1.000	108672		13.26(6.83-20.50)		187	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.725	2.725	0.0	0.883	1316070	0.9251	Target=3.00	98.6	1847	
349.00 > 99.00	2.725	2.725	0.0	0.883	414127		3.18(1.50-4.51)		800	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.823	2.823	0.0	0.819	319282	0.9152		73.2	2049	

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	2.823	2.823	0.0	1.000	265956	0.9532		95.3	1395	
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1225689	0.9271		78.4	1639	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	1026939	0.8517	Target=3.60	93.6	1006	M
399.00 > 99.00	3.088	3.088	0.0	1.000	293878		3.49(1.80-5.40)		377	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.088	0.0	0.896	1803263	0.9875		79.0	4405	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.088	3.088	0.0	1.000	1480789	0.9210	Target=3.76	92.1	314	
363.00 > 169.00	3.088	3.088	0.0	1.000	398872		3.71(1.88-5.65)		719	
77 DONA										M
377.00 > 251.00	3.132	3.121	0.011	0.832	3739390	0.9182	Target=3.10	97.5	2553	M
377.00 > 85.00	3.132	3.121	0.011	0.832	1181743		3.16(1.55-4.65)		1266	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.430	3.430	0.0	0.911	916967	0.8882	Target=5.32	93.3	2308	M
449.00 > 99.00	3.430	3.430	0.0	0.911	179583		5.11(2.66-7.97)		833	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.430	0.009	0.997	234743	1.04		87.5	706	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.430	0.009	1.000	375404	1.04		110	1074	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	2024107	1.04		82.9	3768	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2380692	1.25			5999	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.439	0.009	1.000	1742587	0.9507	Target=2.73	95.1	114	M
413.00 > 169.00	3.448	3.439	0.009	1.000	603145		2.89(1.37-4.10)		796	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	875594	1.01		84.1	2564	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	748761	0.8411	Target=5.09	90.6	139	M
499.00 > 99.00	3.764	3.764	0.0	1.000	156427		4.79(2.55-7.64)		144	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2062160	1.07		85.9	5763	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.783	3.783	0.0	1.000	1590776	0.9187	Target=7.76	91.9	325	
463.00 > 169.00	3.783	3.783	0.0	1.000	187423		8.49(3.88-11.63)		967	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	1731207	0.9693		104	2971	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.061	-0.010	1.076	578999	0.8926	Target=2.67	93.0	1645	
549.00 > 99.00	4.051	4.061	-0.010	1.076	234206		2.47(1.34-4.01)		1491	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.093	-0.012	1.184	2010808	1.08		86.2	5046	

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	4.093	-0.012	1.000	1658950	0.9590	Target=9.83	95.9	671	
513.00 > 169.00	4.081	4.093	-0.012	1.000	164491		10.09(4.91-14.74)		300	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	273454	1.02		85.5	1292	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.093	4.093	0.0	1.000	331373	1.17		122	1491	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.138	0.001	1.200	1599029	1.05		84.1	2763	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.138	0.012	1.003	1224705	0.9480		94.8	1576	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.228	4.228	0.0	1.226	403887	1.54		123	731	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.238	-0.010	1.000	280842	0.9399		94.0	505	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.331	4.331	0.0	1.151	423435	0.8376	Target=2.59	86.9	3557	
599.00 > 99.00	4.331	4.331	0.0	1.151	161126		2.63(1.30-3.89)		1193	
D 30 13C2 PFUnA										
565.00 > 520.00	4.354	4.365	-0.011	1.263	1699930	1.11		89.0	4151	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.354	4.365	-0.011	1.000	1403858	0.9896	Target=9.68	99.0	605	
563.00 > 169.00	4.354	4.365	-0.011	1.000	138249		10.15(4.84-14.53)		714	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	398239	1.53		122	1095	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.365	4.376	-0.011	1.000	264987	0.9103		91.0	797	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.454	4.465	-0.011	1.183	2087832	0.8985		95.4	3330	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.602	-0.011	1.332	1515397	1.02		81.3	7993	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.602	-0.011	1.000	1218854	0.9409	Target=6.96	94.1	109	M
613.00 > 169.00	4.591	4.602	-0.011	1.000	160950		7.57(3.48-10.43)		886	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.622	-0.010	1.127	163247	1.06		110	1076	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.776	4.785	-0.009	1.269	136904	0.6661	Target=0.52	68.8	1186	M
699.00 > 99.00	4.776	4.785	-0.009	1.269	284355		0.48(0.26-0.78)		3265	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.803	4.825	-0.022	1.046	1060969	0.8936	Target=4.85	89.4	94.4	M
663.00 > 169.00	4.803	4.825	-0.022	1.046	196347		5.40(2.42-7.27)		869	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.002	5.032	-0.030	1.451	1201681	0.9435		75.5	4160	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.032	-0.020	1.002	120123	0.8033	Target=0.99	80.3	928	M
713.00 > 219.00	5.002	5.032	-0.030	1.000	134481		0.89(0.49-1.48)		748	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	5.400	-0.034	1.557	1632982	1.16		92.9	3754	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.366	5.411	-0.045	1.000	1221897	1.03	Target=4.99	103	166	M
813.00 > 169.00	5.366	5.411	-0.045	1.000	210107		5.82(2.49-7.48)		1133	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.786	-0.064	1.066	1046697	1.11	Target=4.90	111	148	M
913.00 > 169.00	5.722	5.786	-0.064	1.066	166036		6.30(2.45-7.35)		609	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

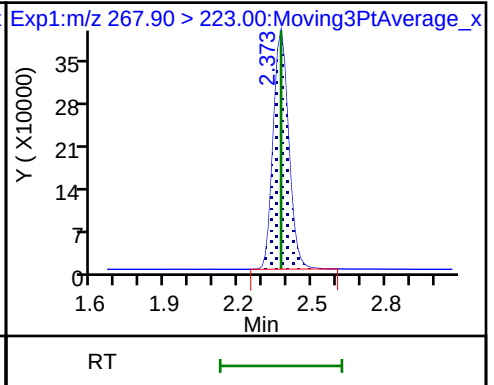
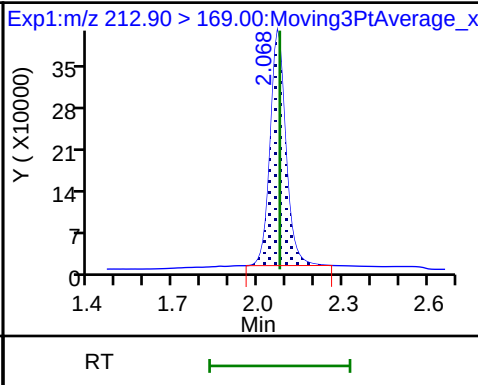
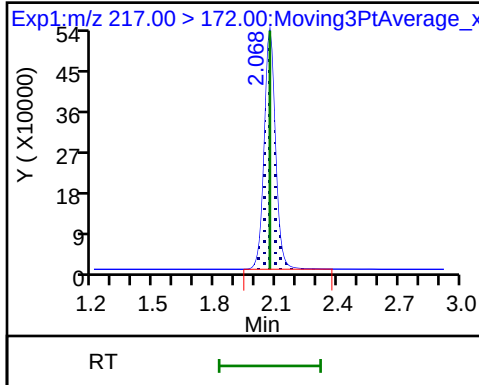
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

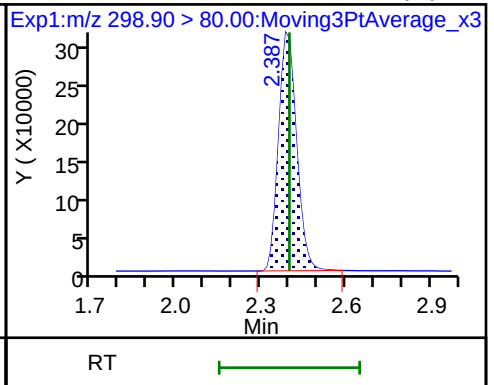
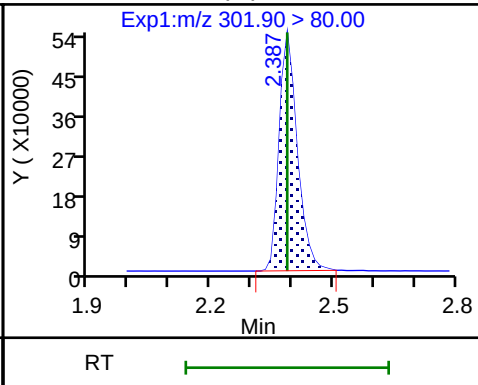
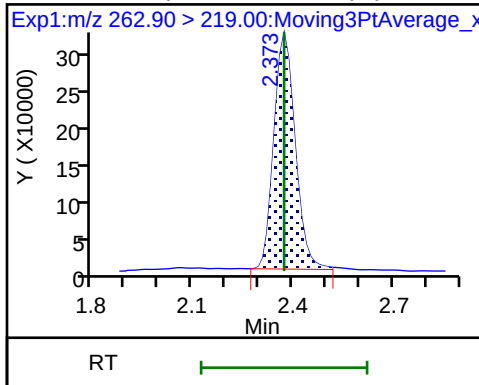
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

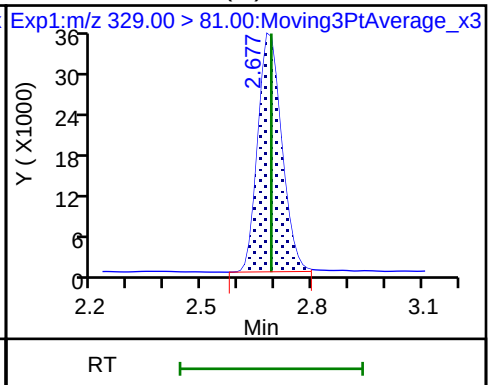
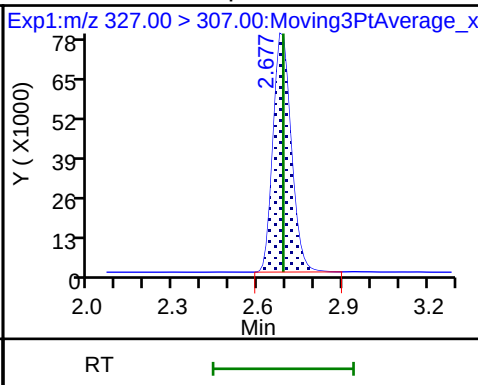
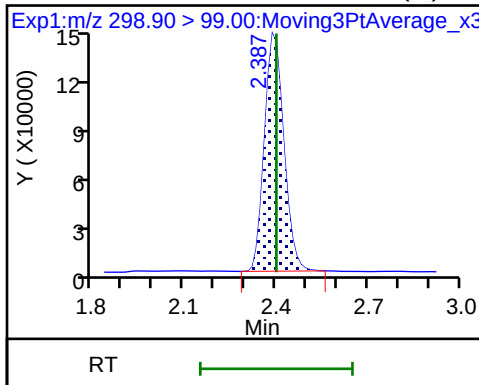
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

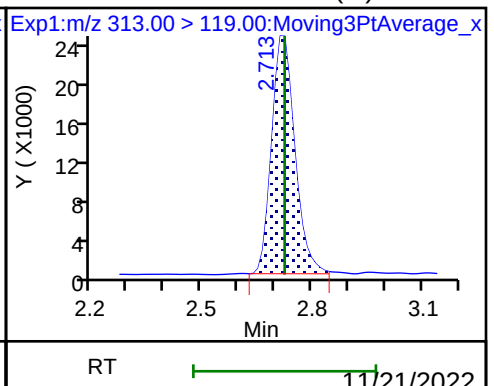
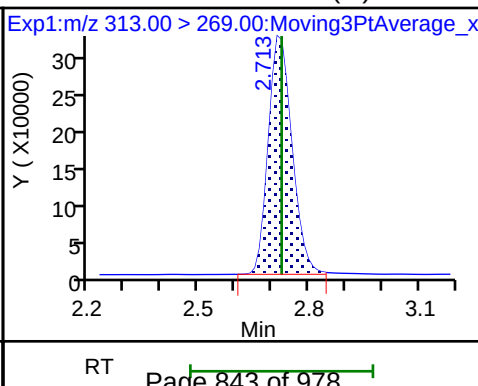
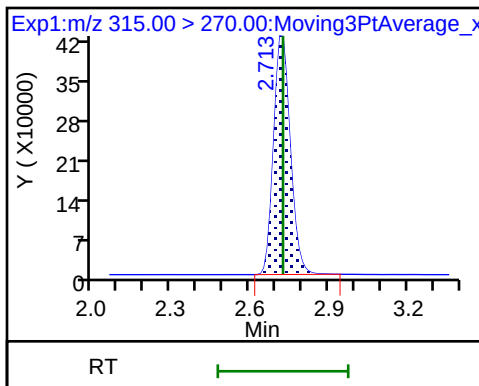
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

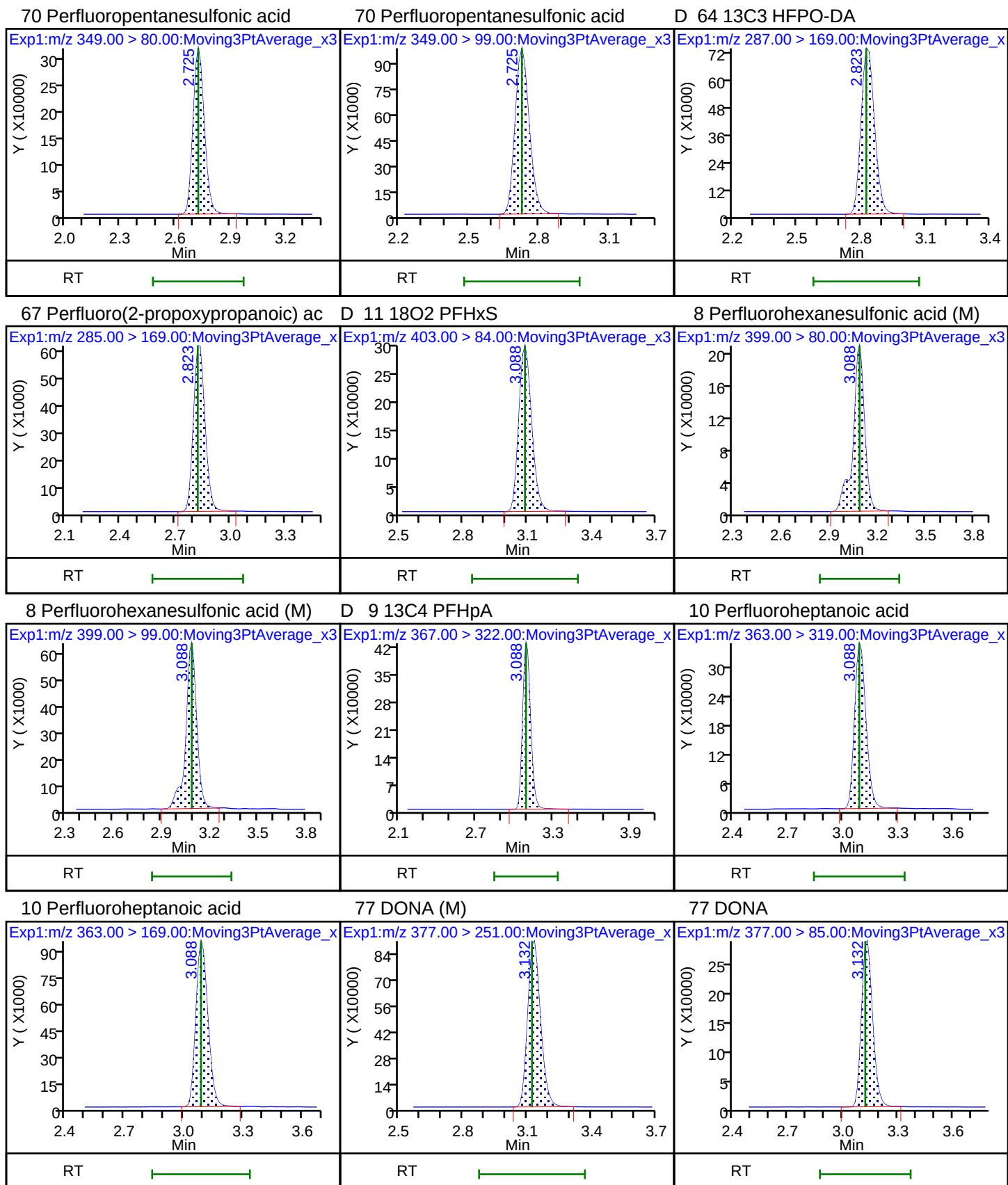


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

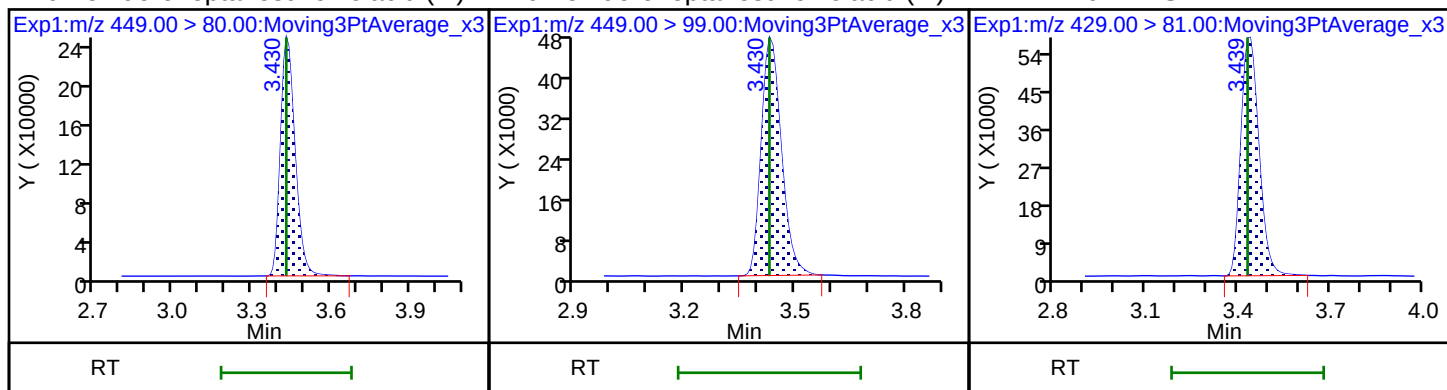




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

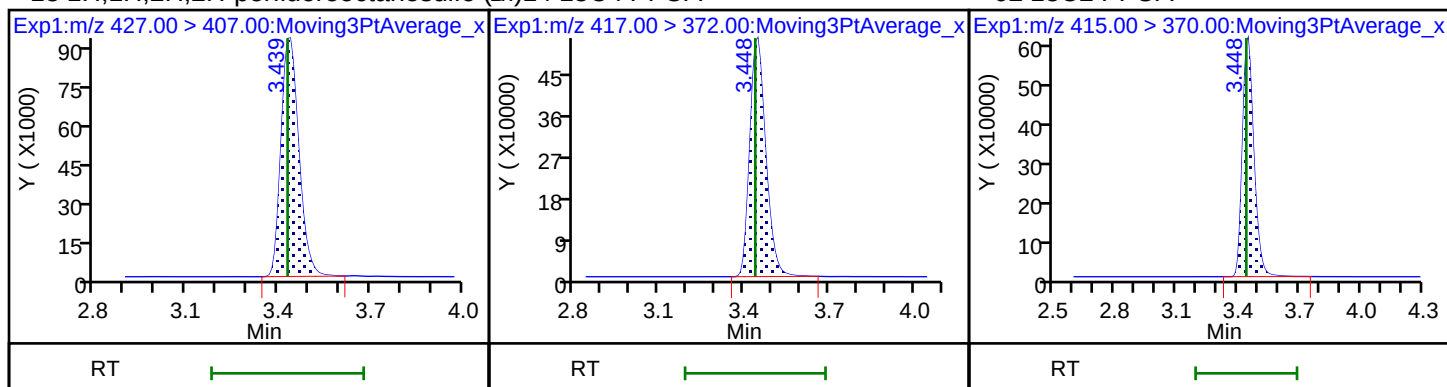
D 12 M2-6:2 FTS



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

14 13C4 PFOA

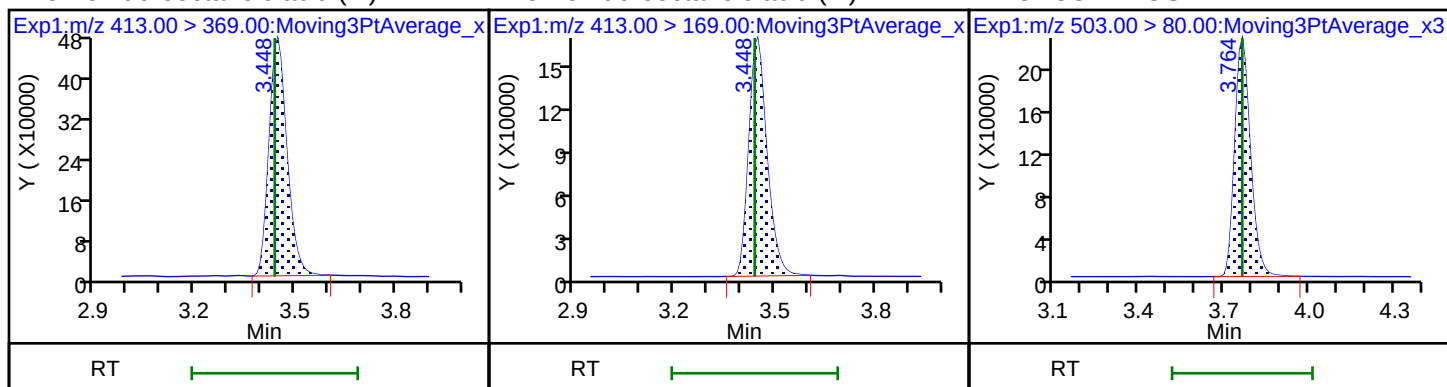
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

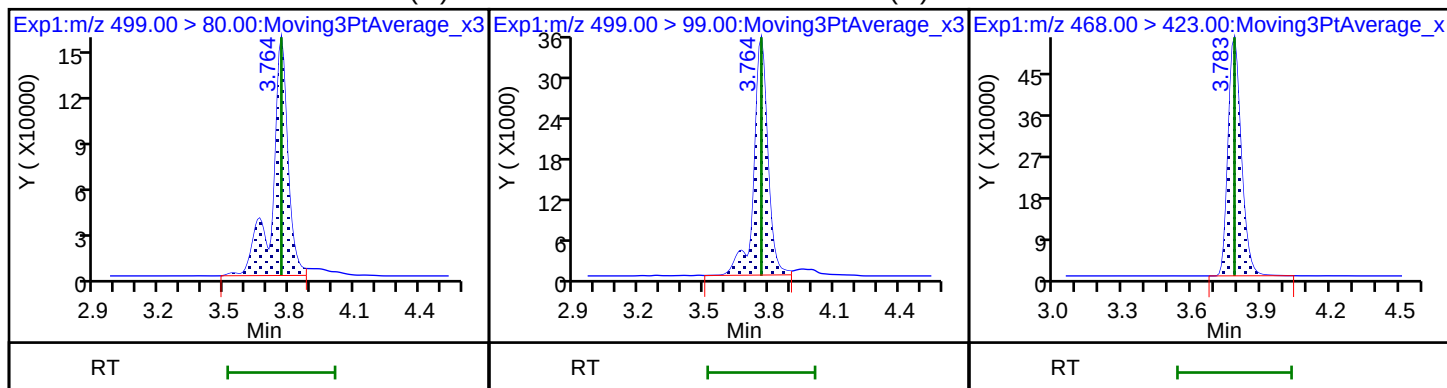
D 18 13C4 PFOS

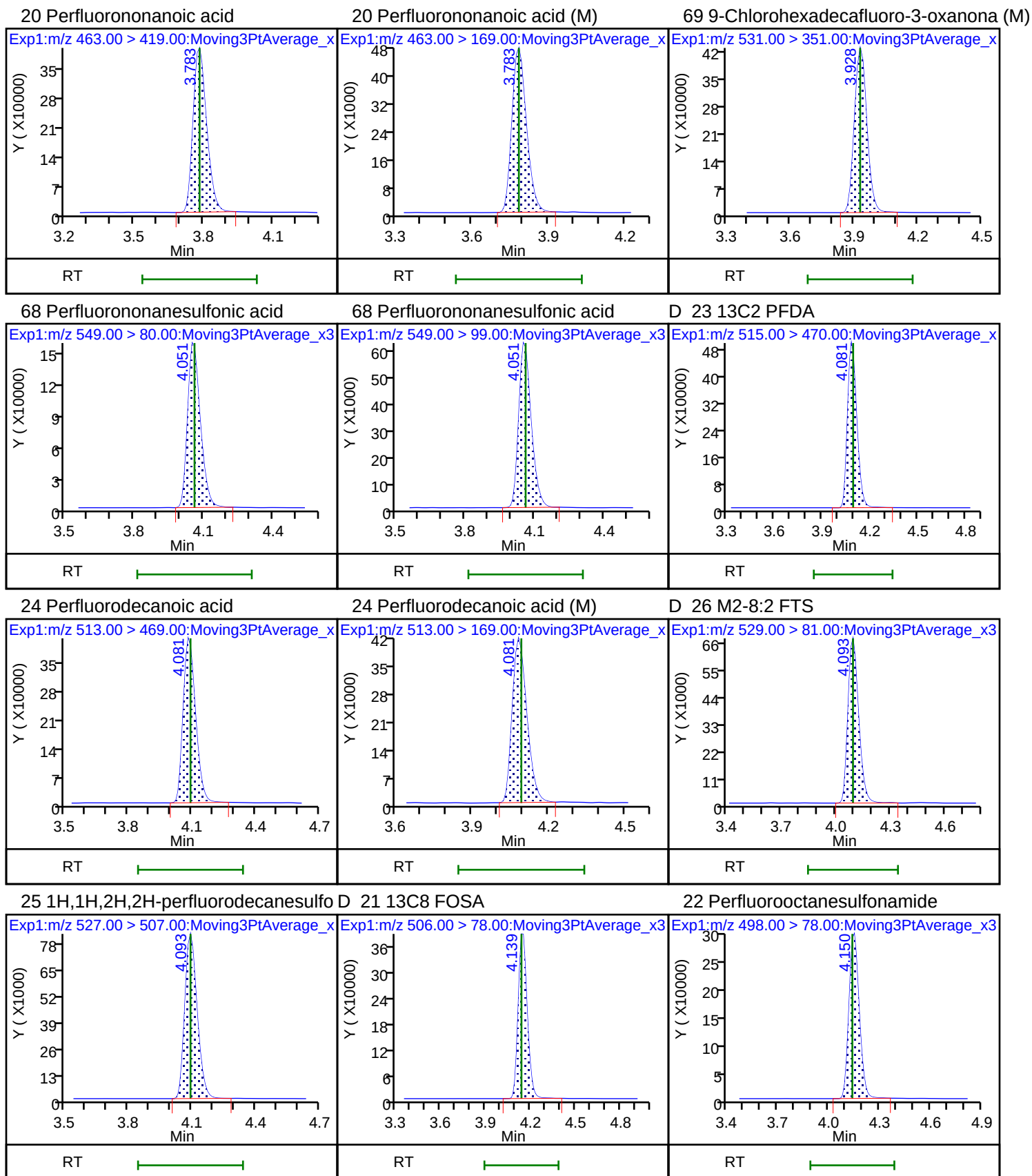


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

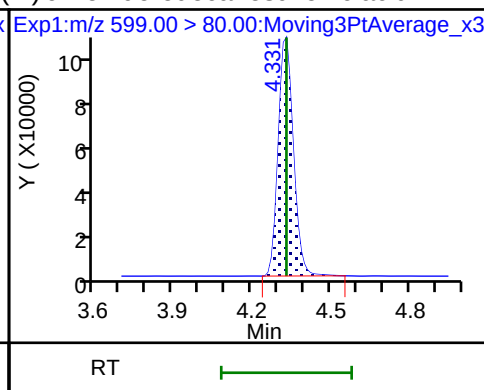
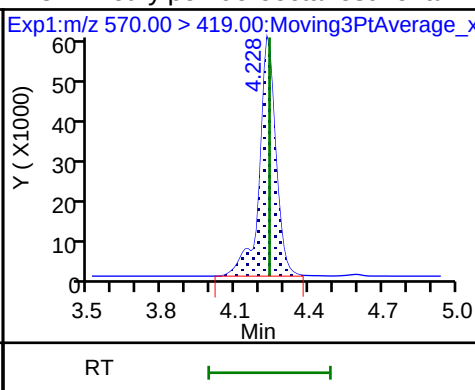
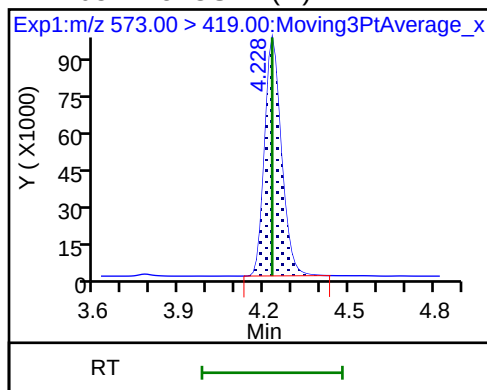




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

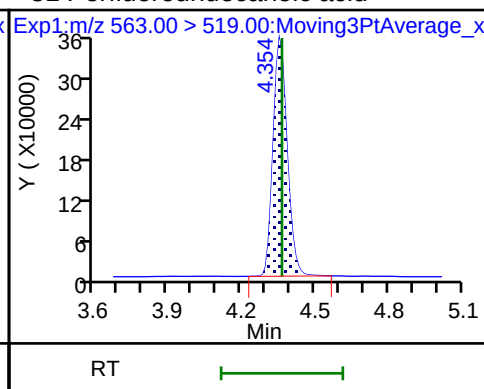
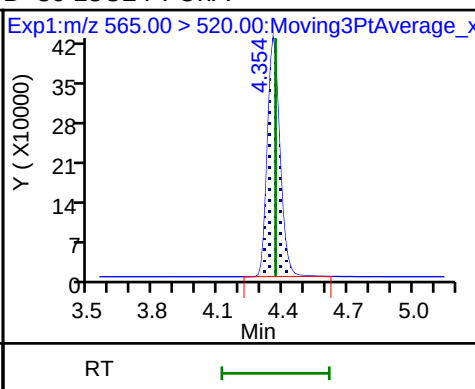
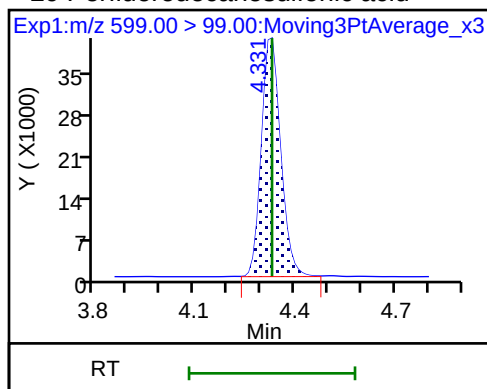
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

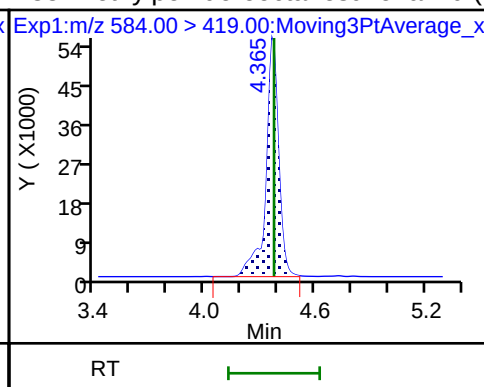
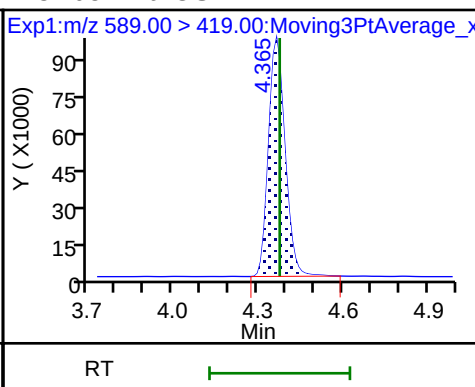
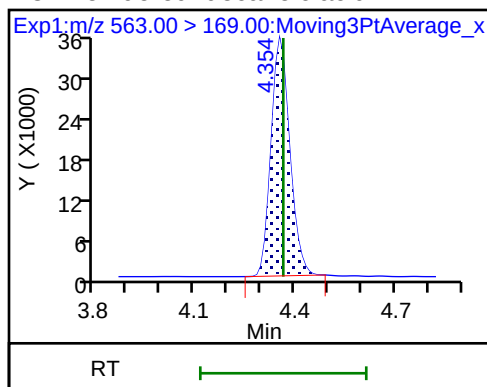
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

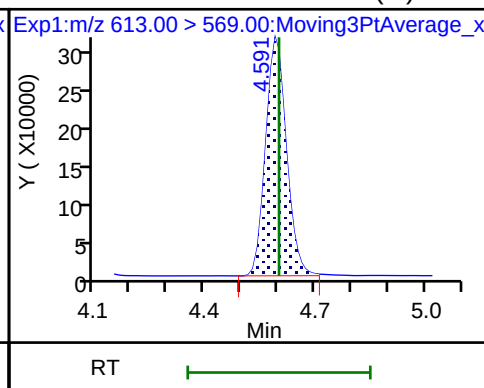
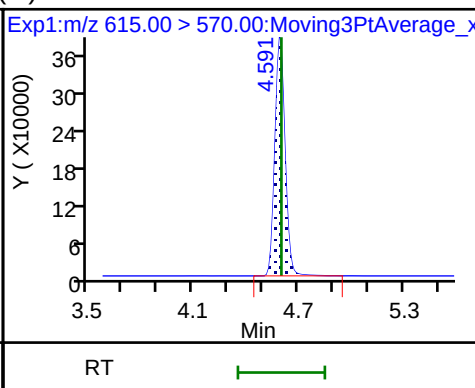
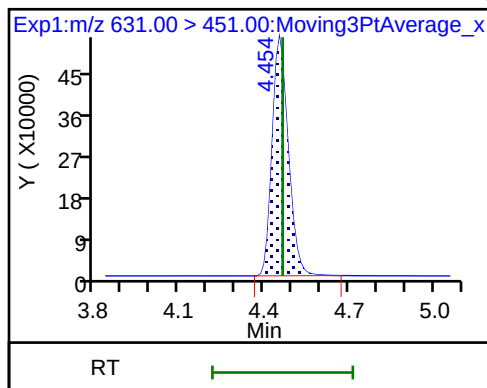
33 N-ethylperfluorooctanesulfonamid (M)

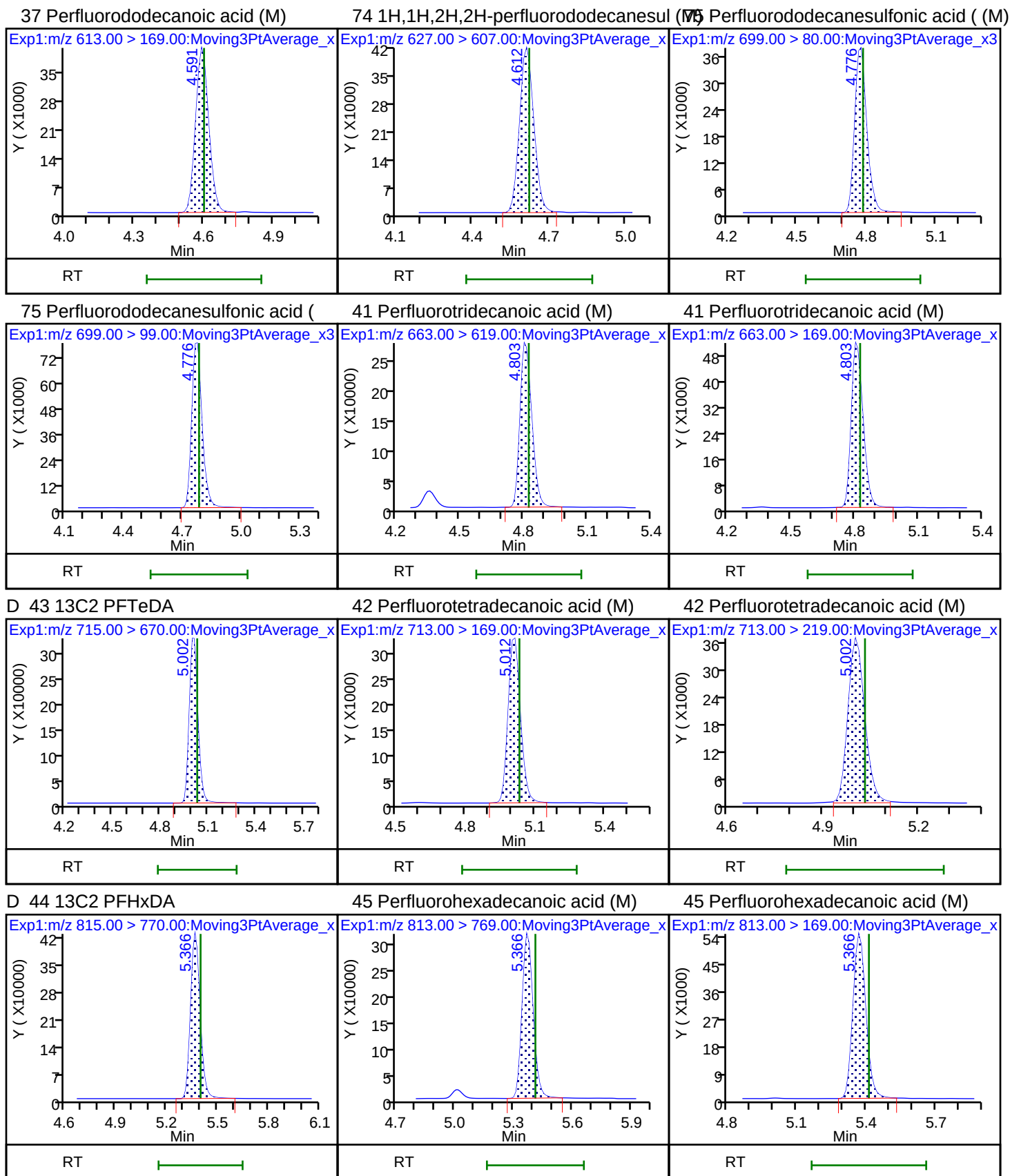


66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

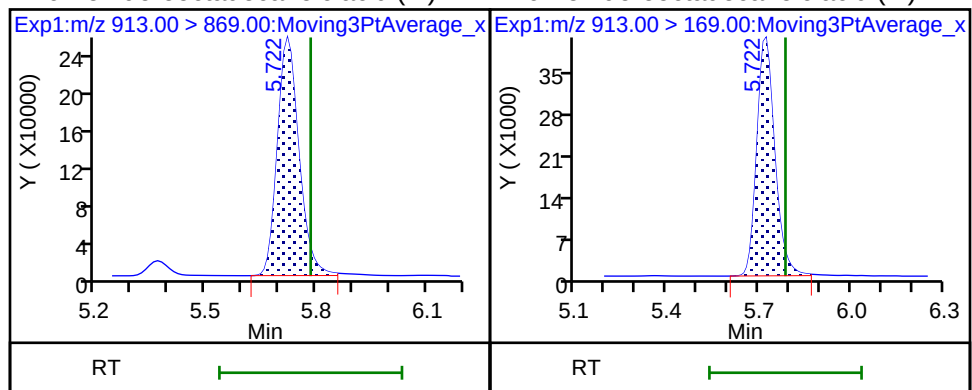
37 Perfluorododecanoic acid (M)





46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

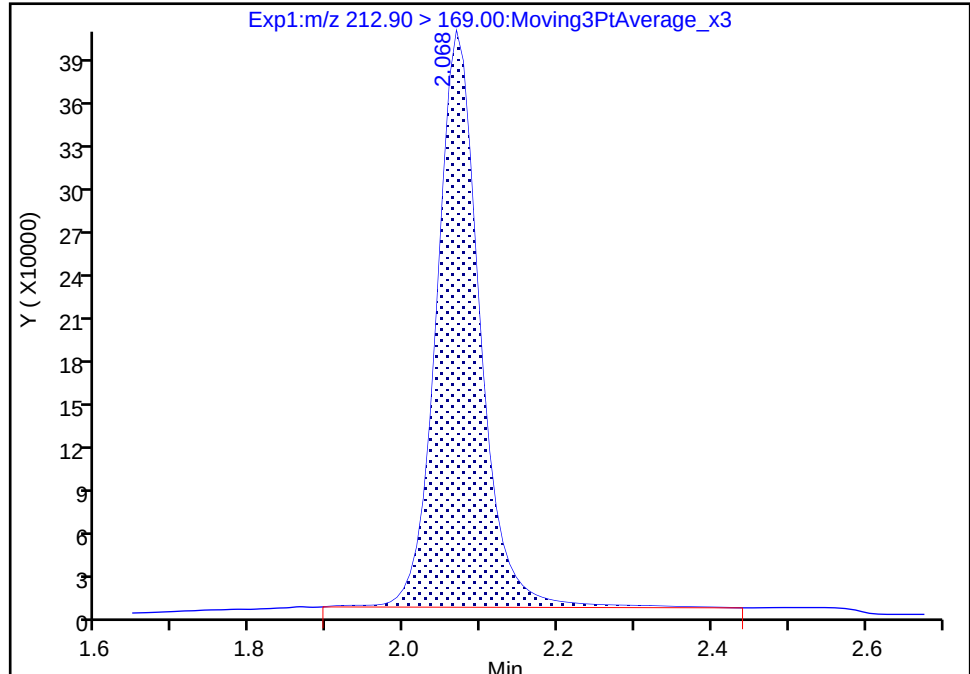
Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

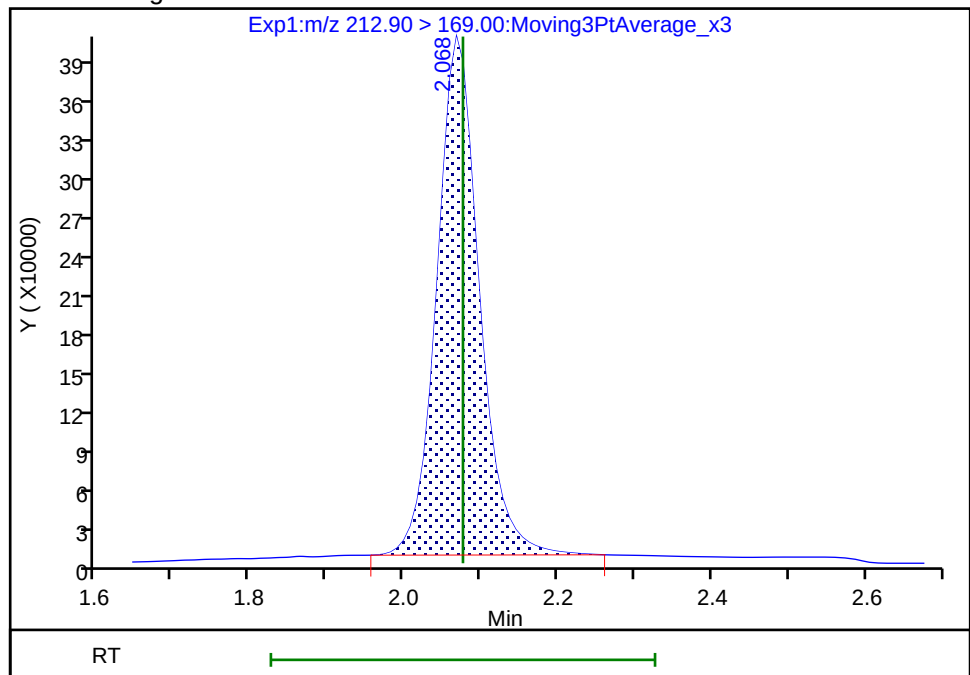
RT: 2.07
Area: 1547402
Amount: 0.965678
Amount Units: ng/ml

Processing Integration Results



RT: 2.07
Area: 1510046
Amount: 0.942365
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:49:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

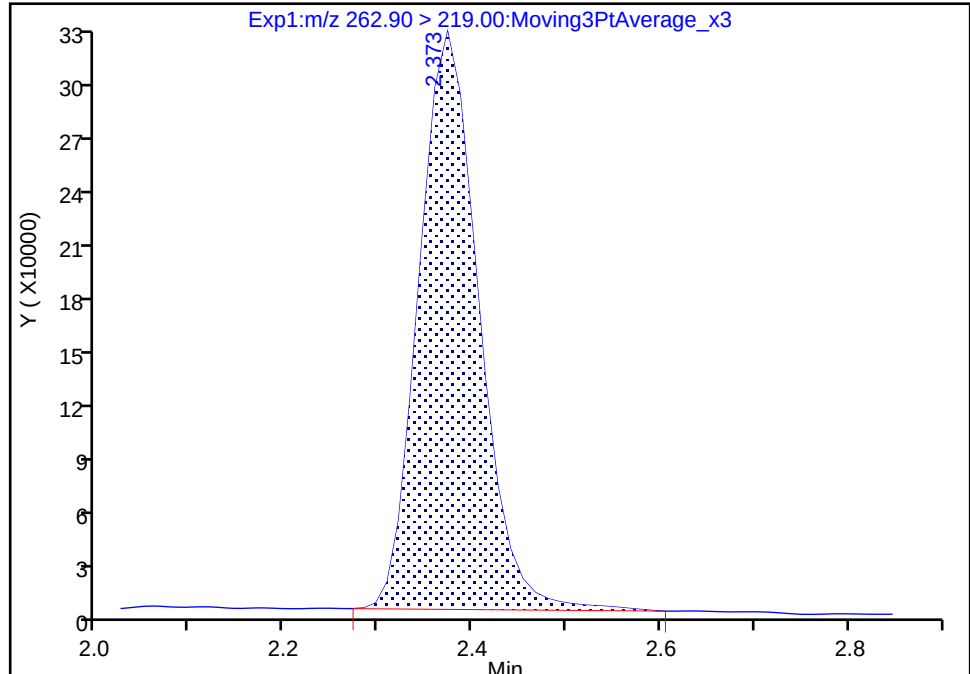
Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

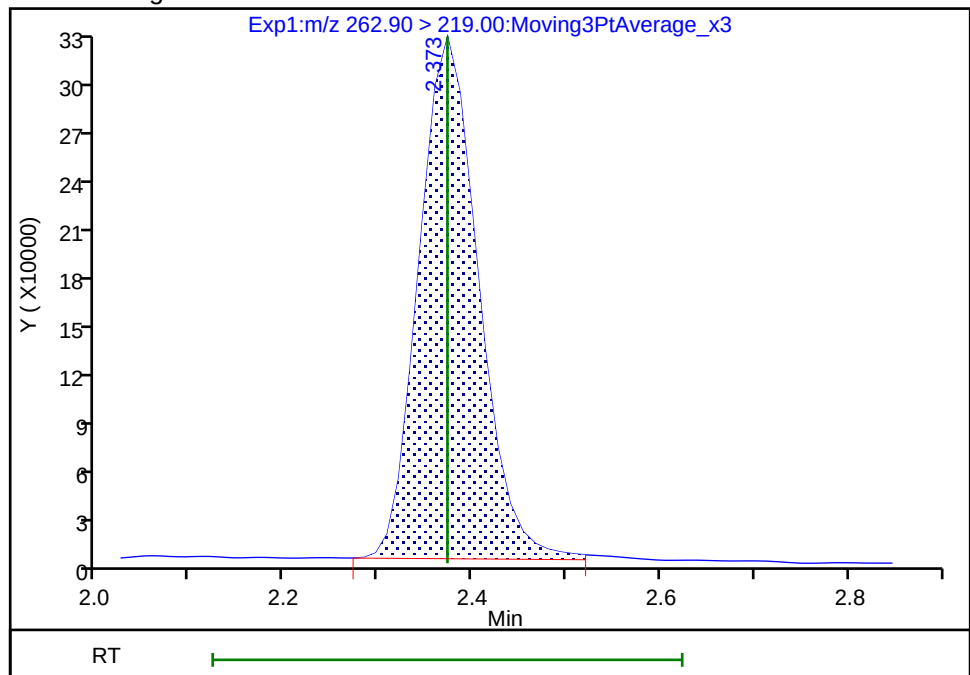
RT: 2.37
Area: 1391116
Amount: 0.941611
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1383628
Amount: 0.936542
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:49:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

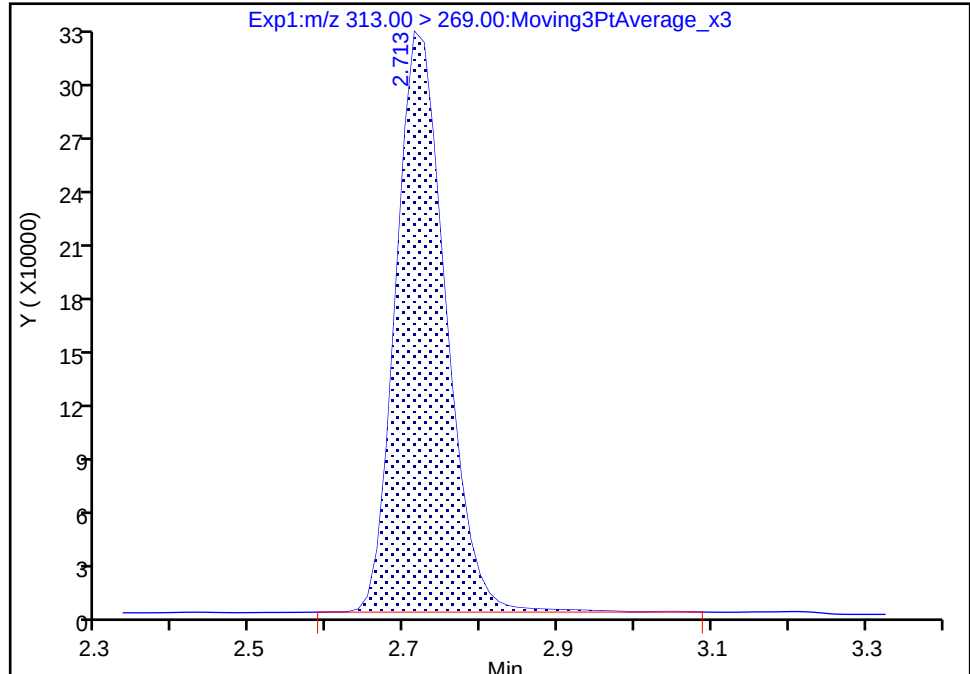
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

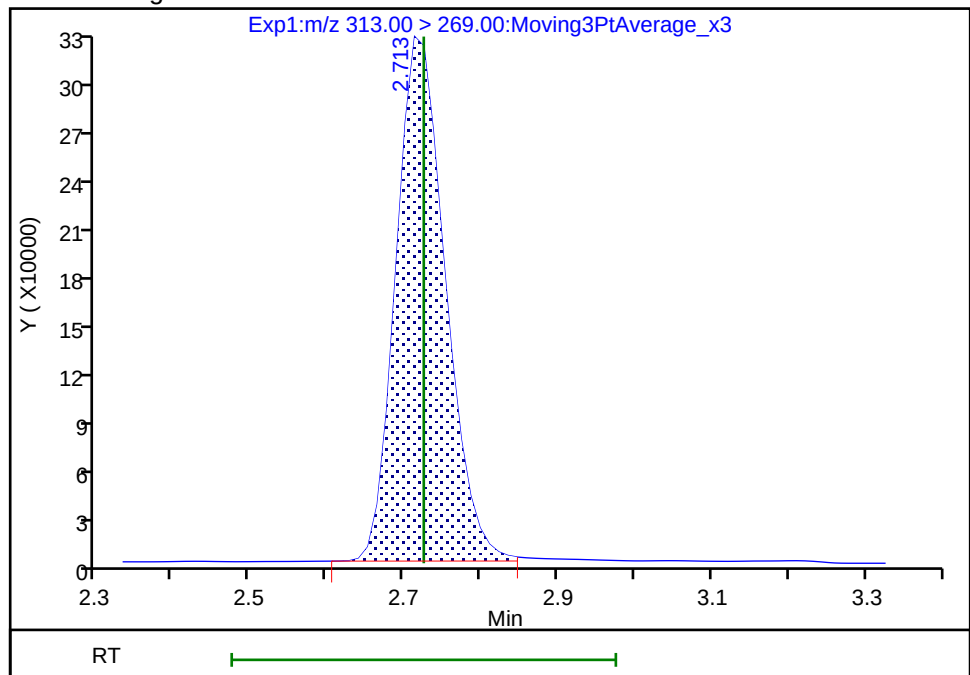
RT: 2.71
Area: 1453117
Amount: 0.894305
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 1440558
Amount: 0.886576
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

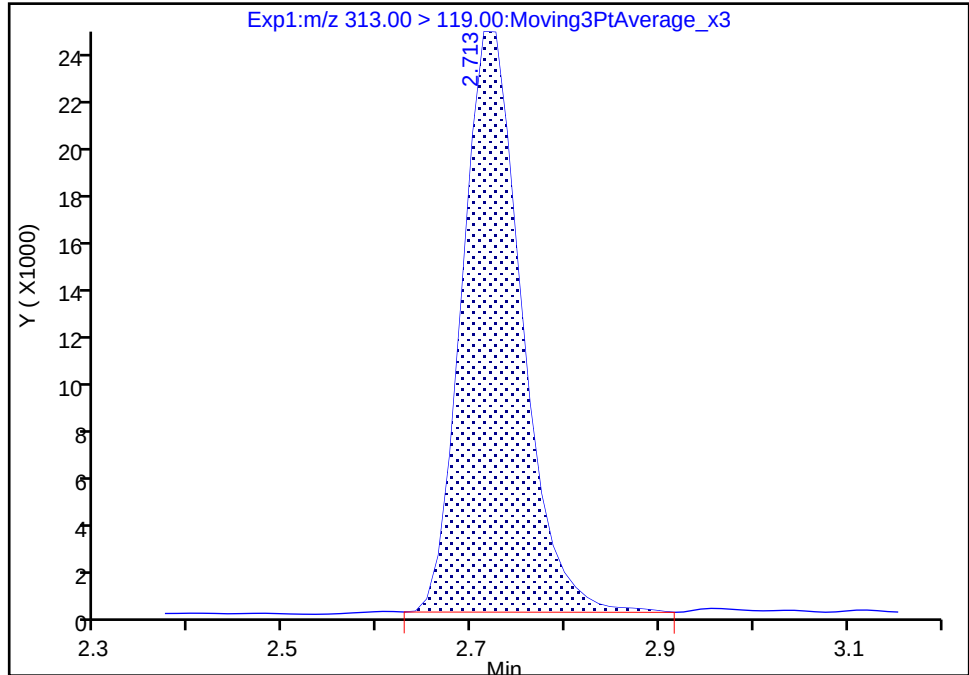
EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

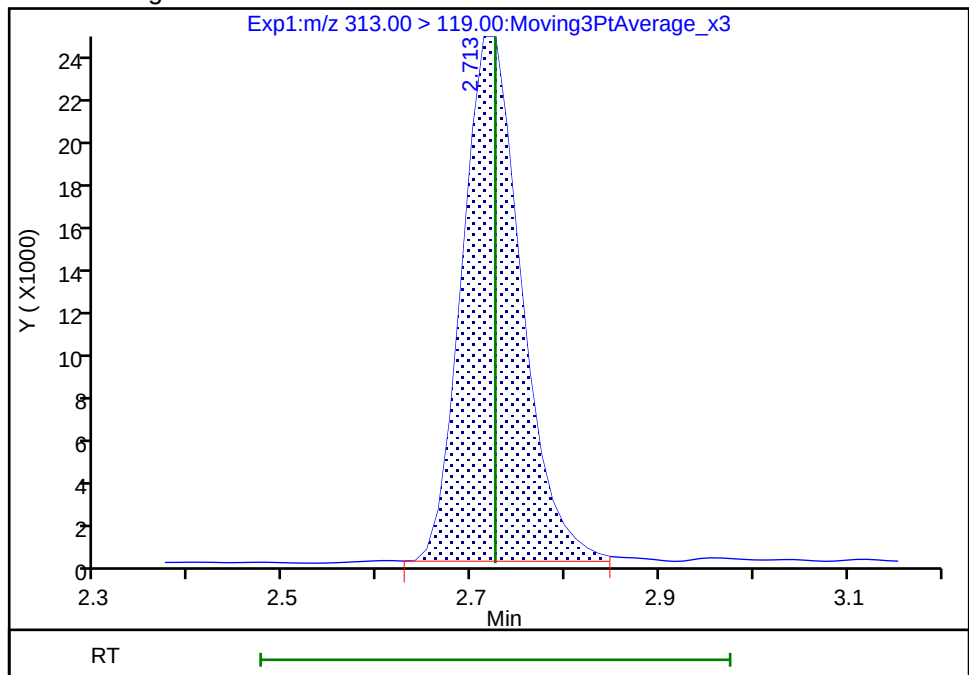
RT: 2.71
Area: 109187
Amount: 0.894305
Amount Units: ng/ml

Processing Integration Results



RT: 2.71
Area: 108672
Amount: 0.886576
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

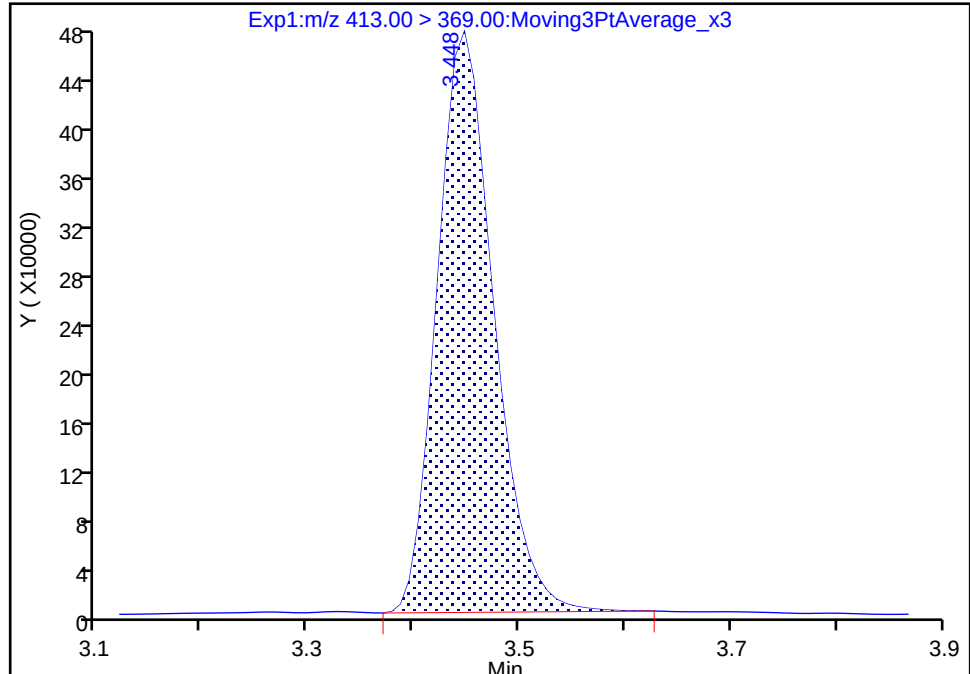
Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

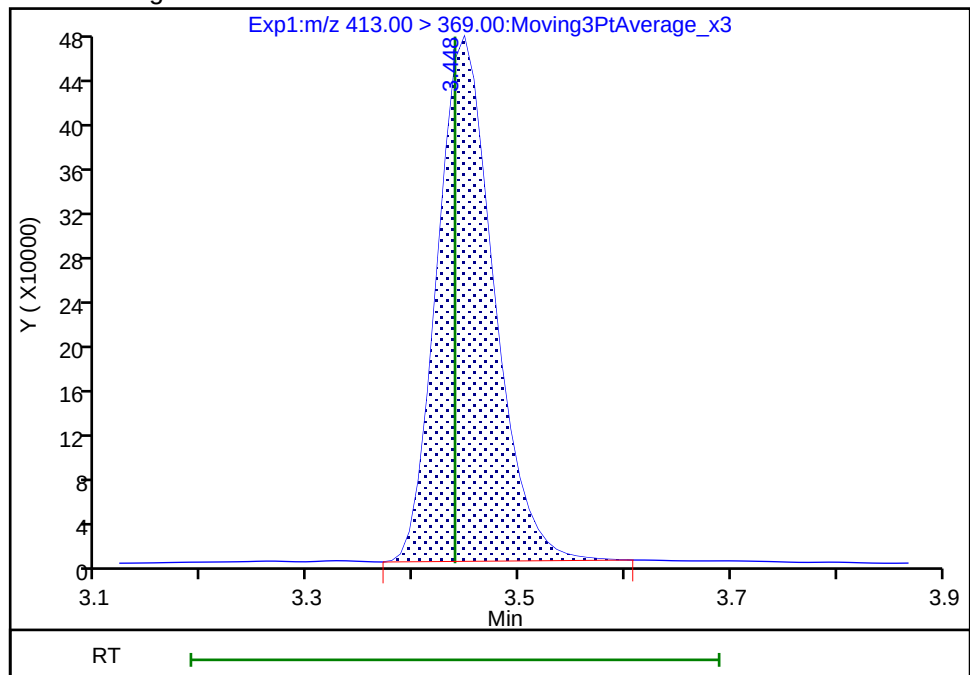
RT: 3.45
Area: 1744846
Amount: 0.951980
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1742587
Amount: 0.950747
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

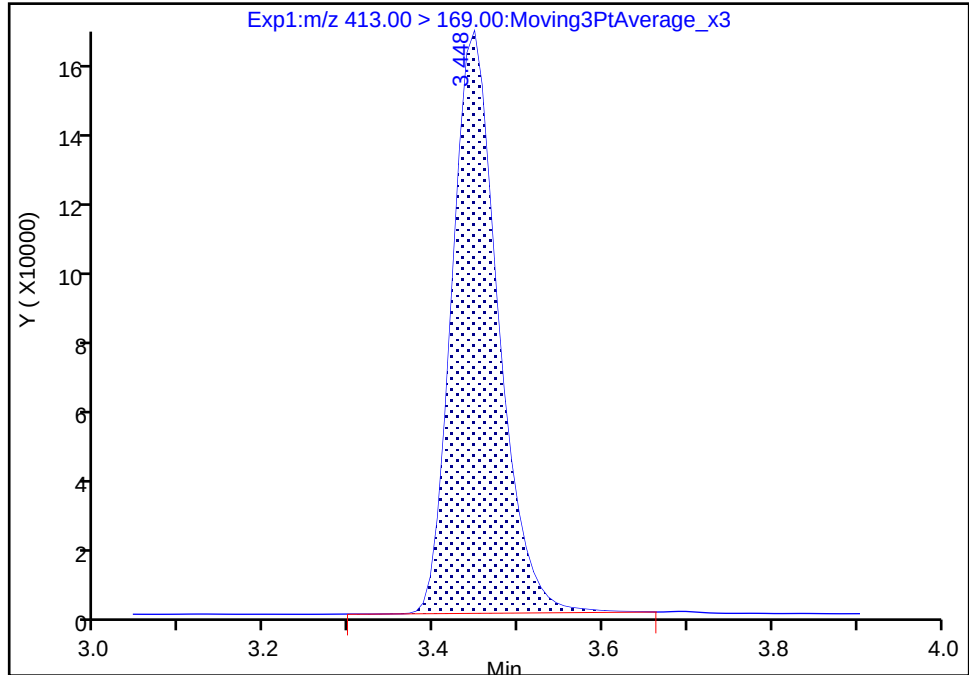
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

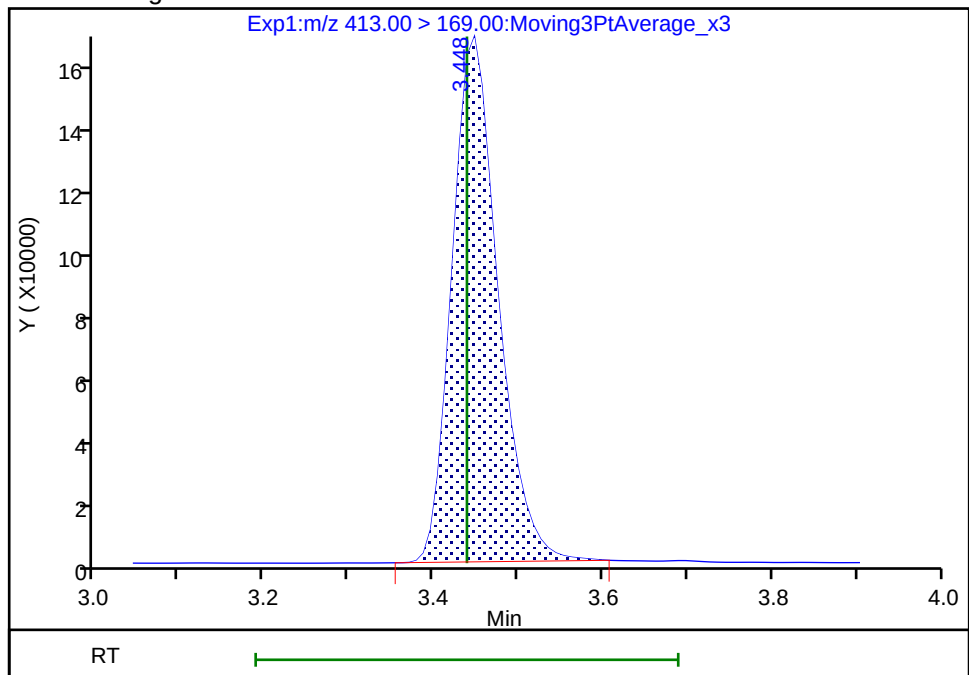
RT: 3.45
Area: 606572
Amount: 0.951980
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 603145
Amount: 0.950747
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

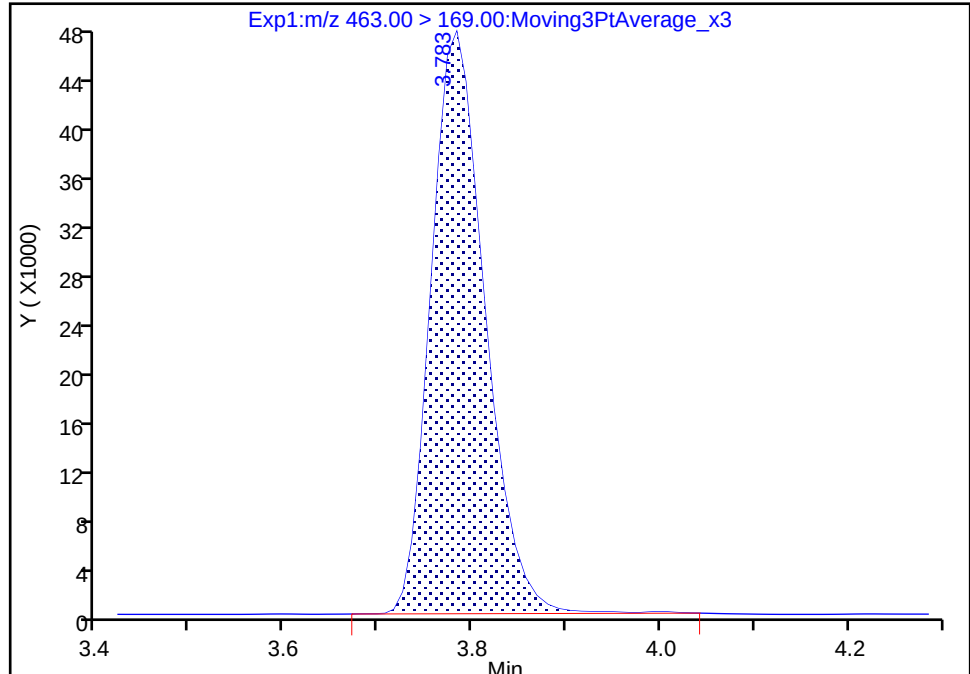
Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

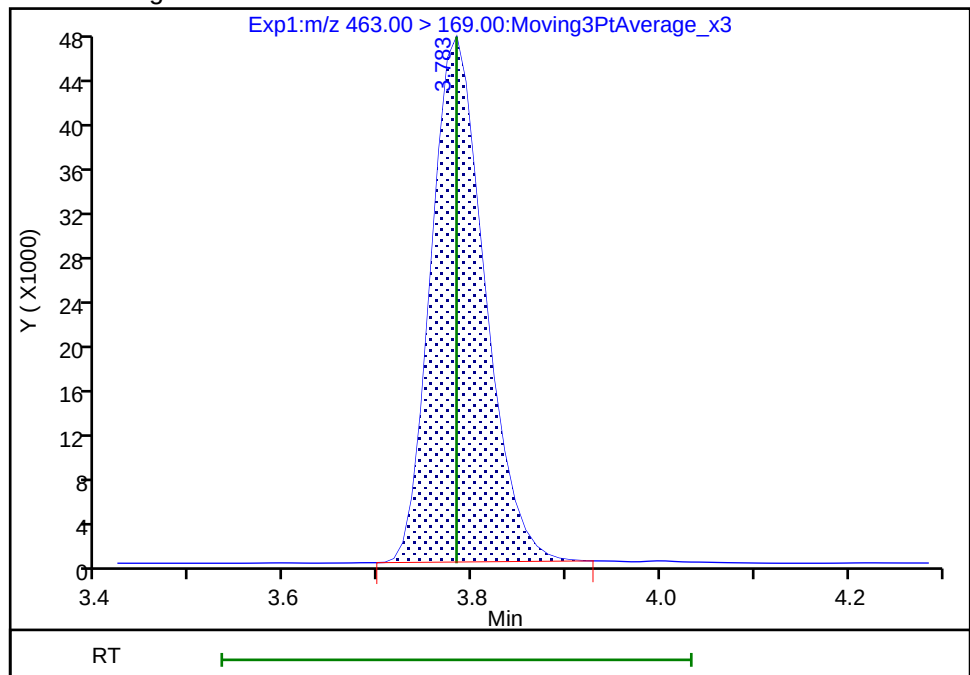
RT: 3.78
Area: 188990
Amount: 0.918666
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 187423
Amount: 0.918666
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:52:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

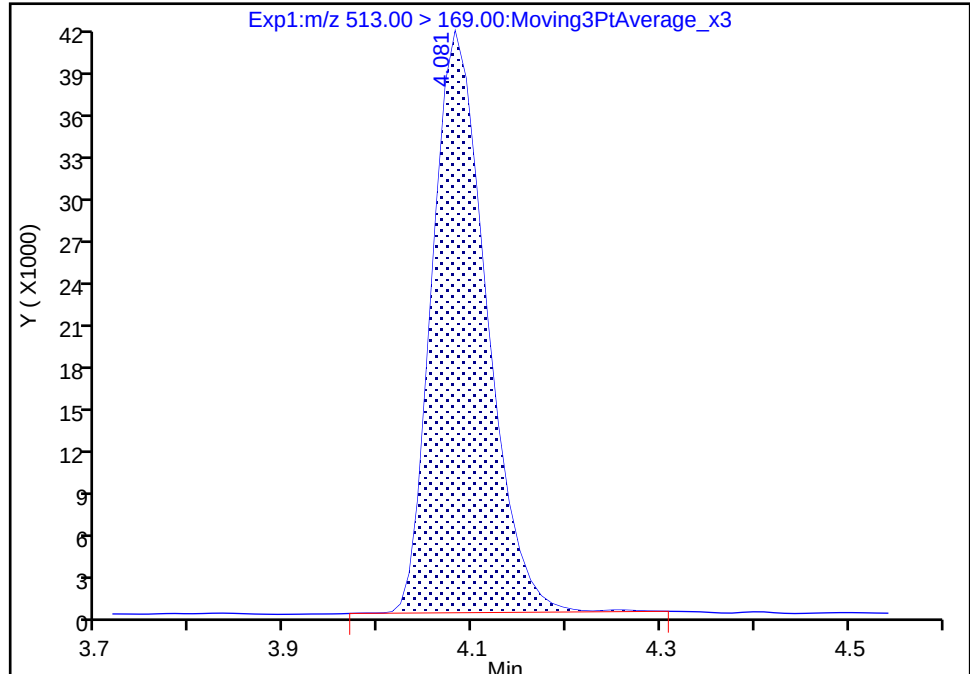
Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

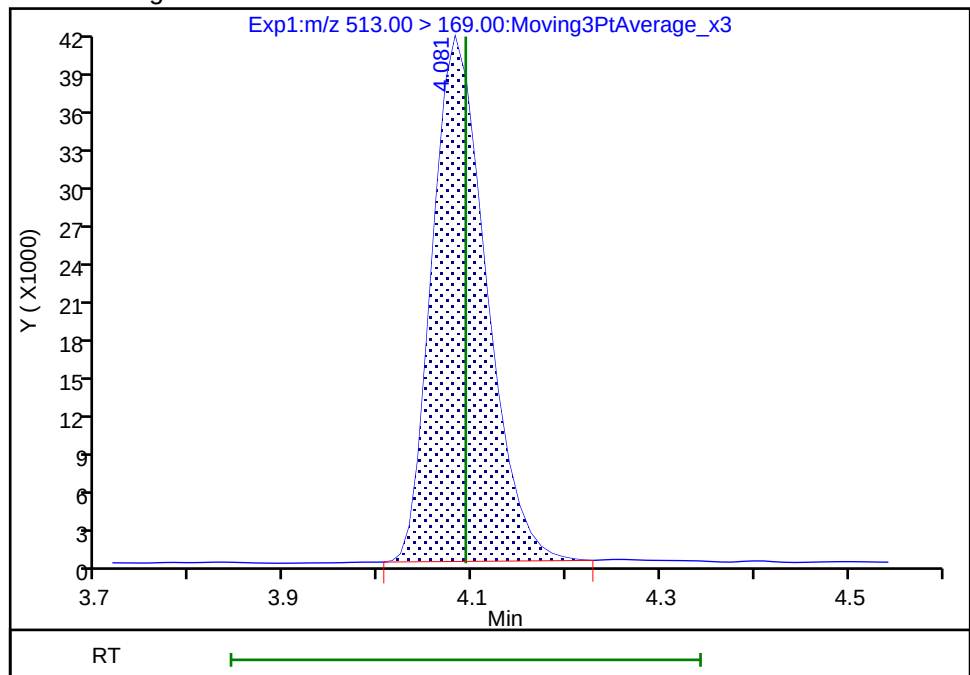
RT: 4.08
Area: 165162
Amount: 0.958993
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 164491
Amount: 0.958993
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:52:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

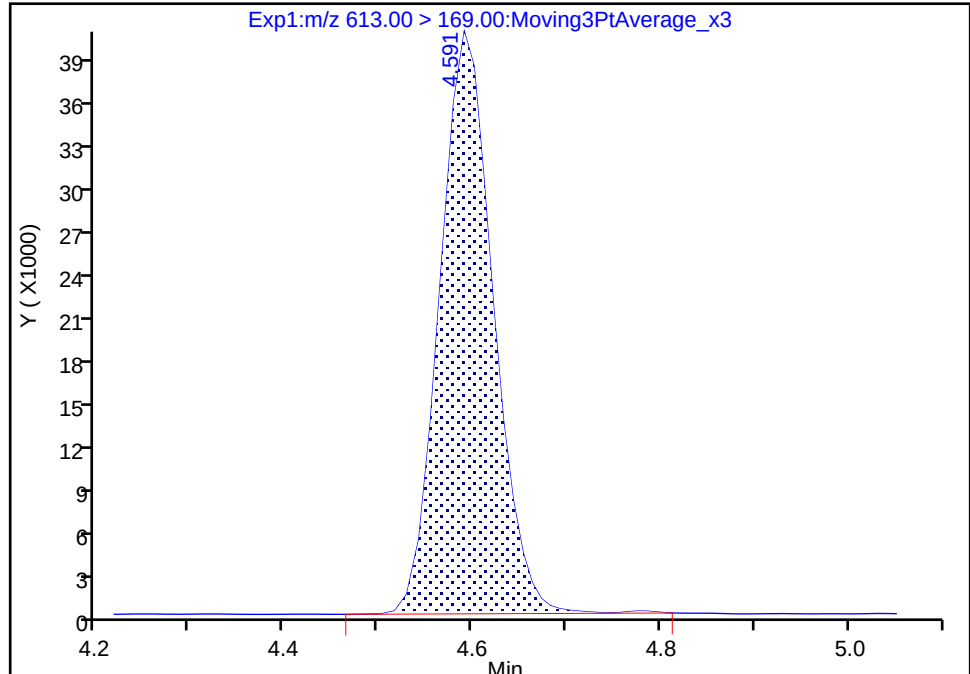
Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

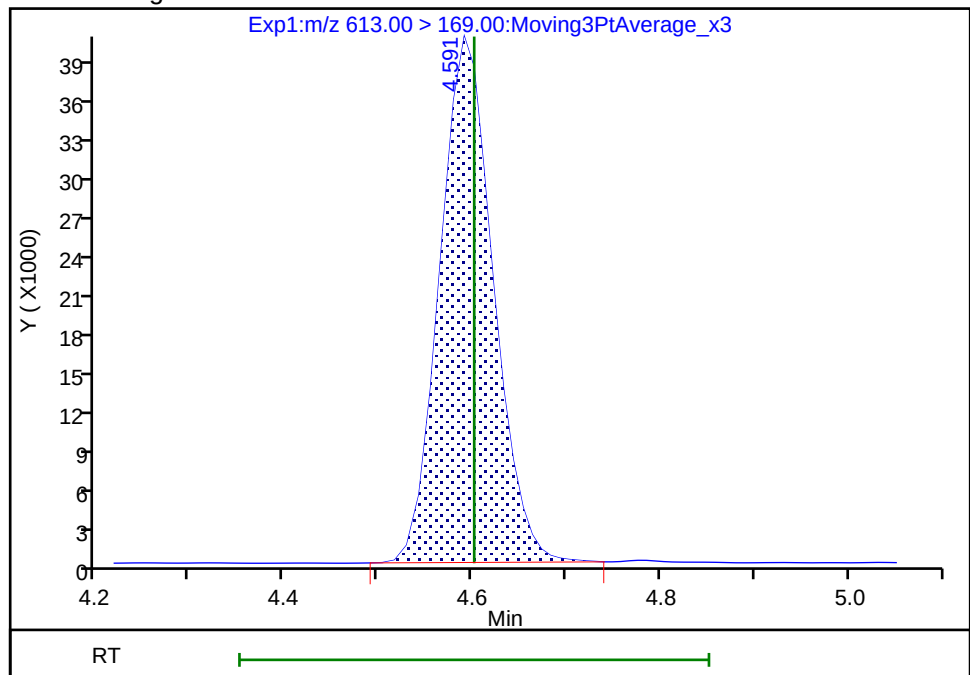
RT: 4.59
Area: 161618
Amount: 0.944878
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 160950
Amount: 0.940867
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

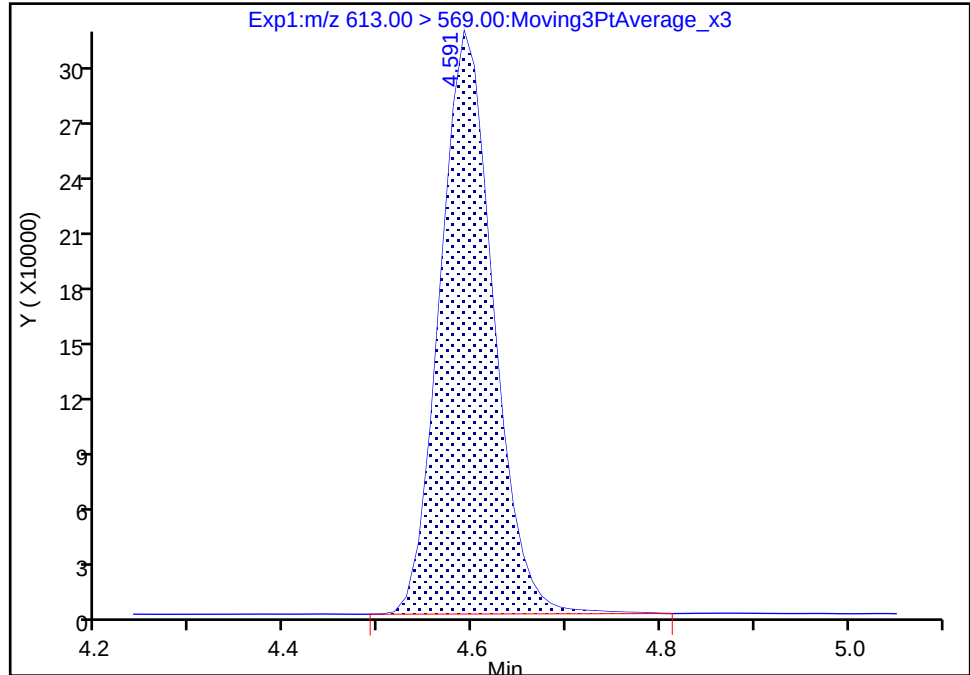
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d
Injection Date: 16-Nov-2022 20:20:59 Instrument ID: LC812
Lims ID: LCS 200-185793/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

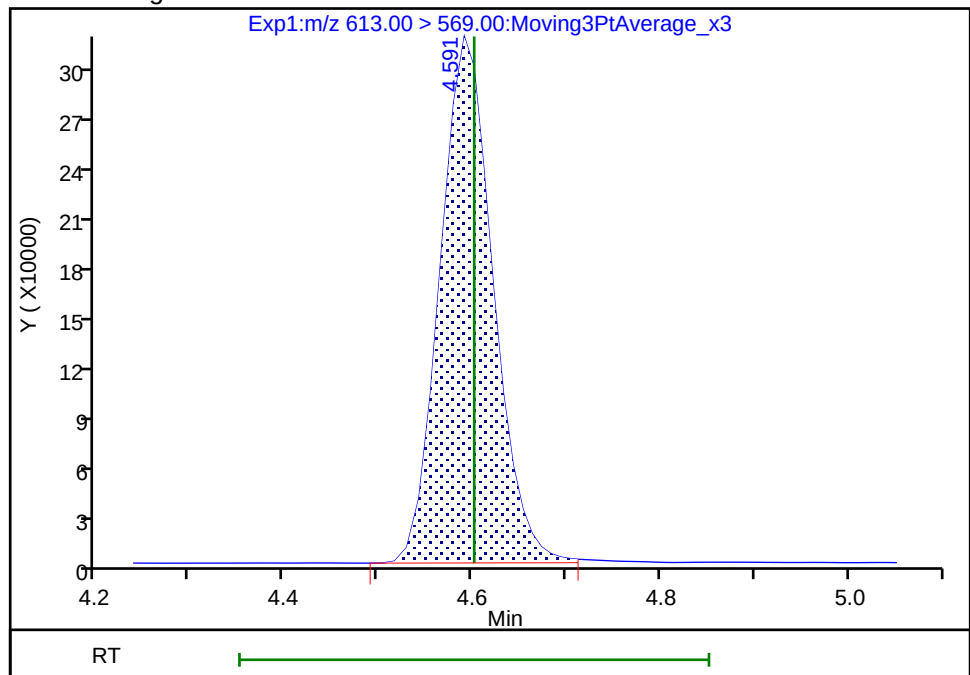
RT: 4.59
Area: 1224050
Amount: 0.944878
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 1218854
Amount: 0.940867
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 859 of 97811/21/2022
4:10 PM

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

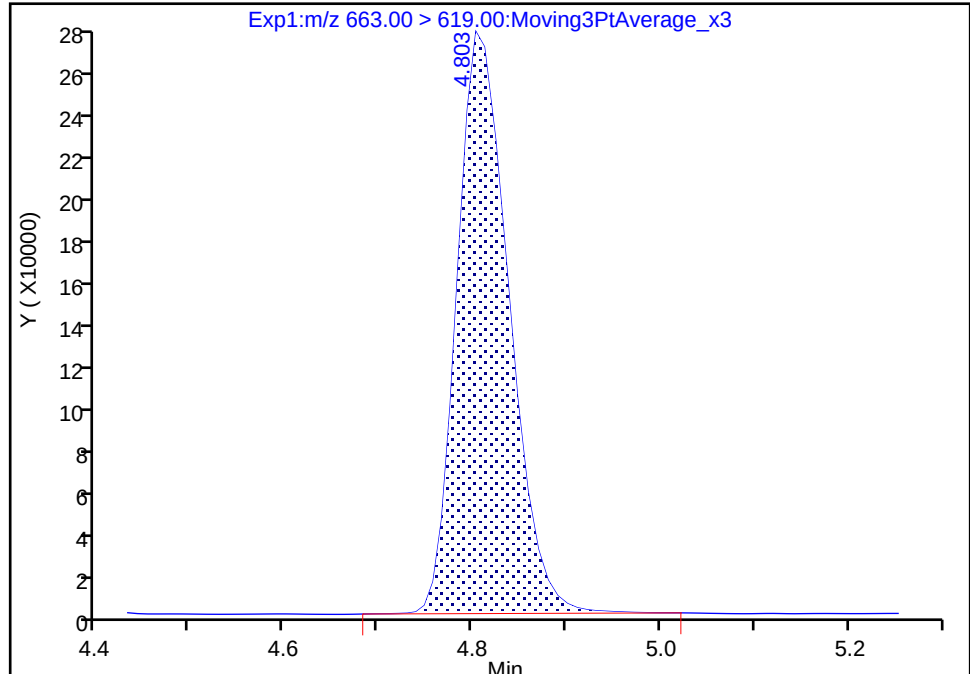
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

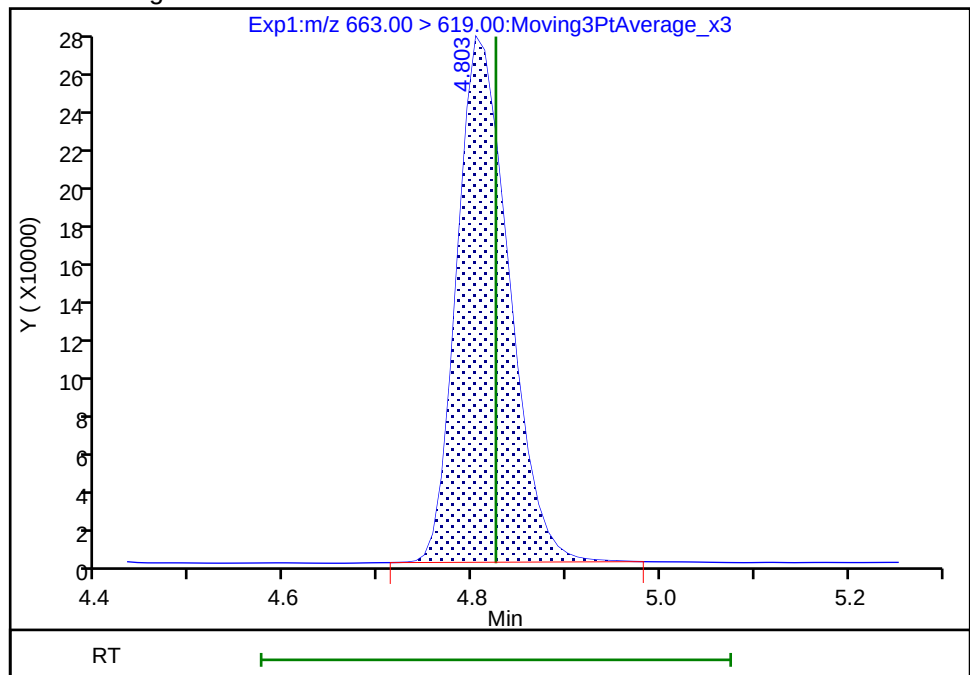
RT: 4.80
Area: 1063709
Amount: 0.895925
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 1060969
Amount: 0.893617
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

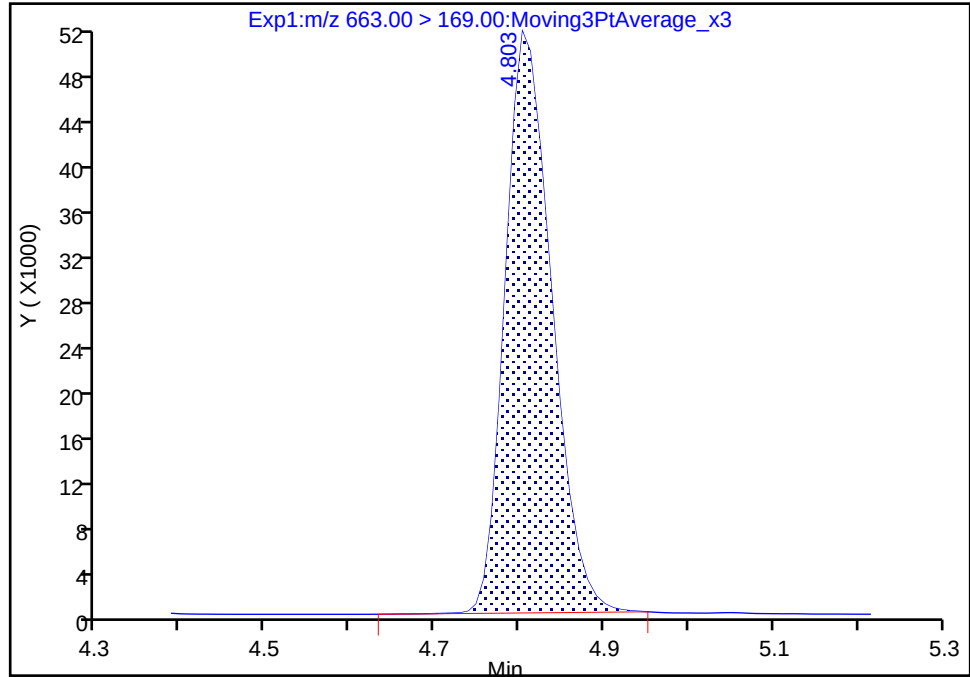
EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

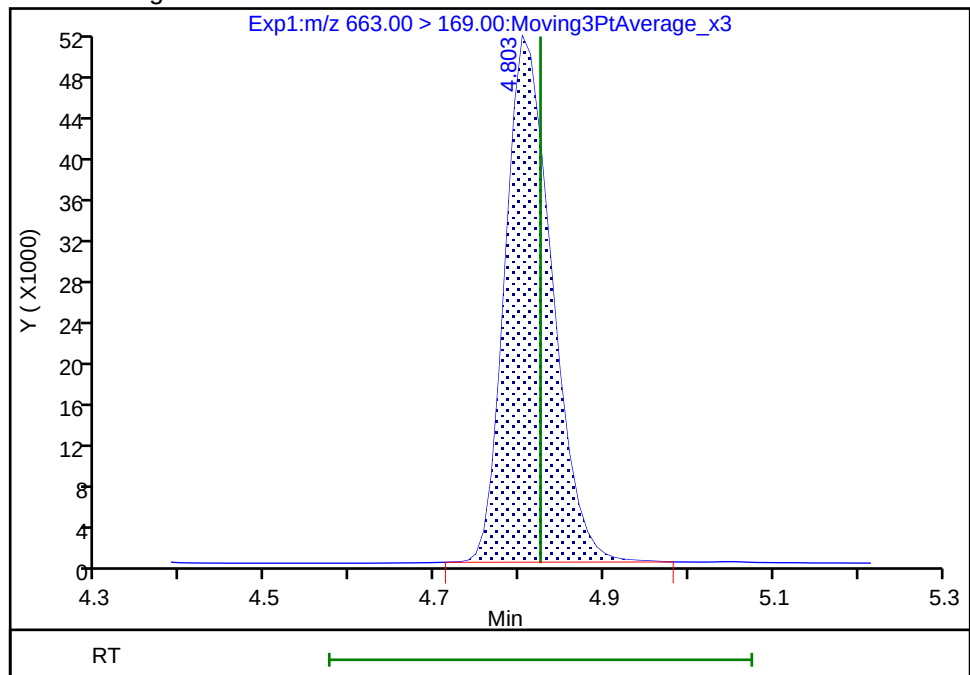
RT: 4.80
Area: 195764
Amount: 0.895925
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 196347
Amount: 0.893617
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

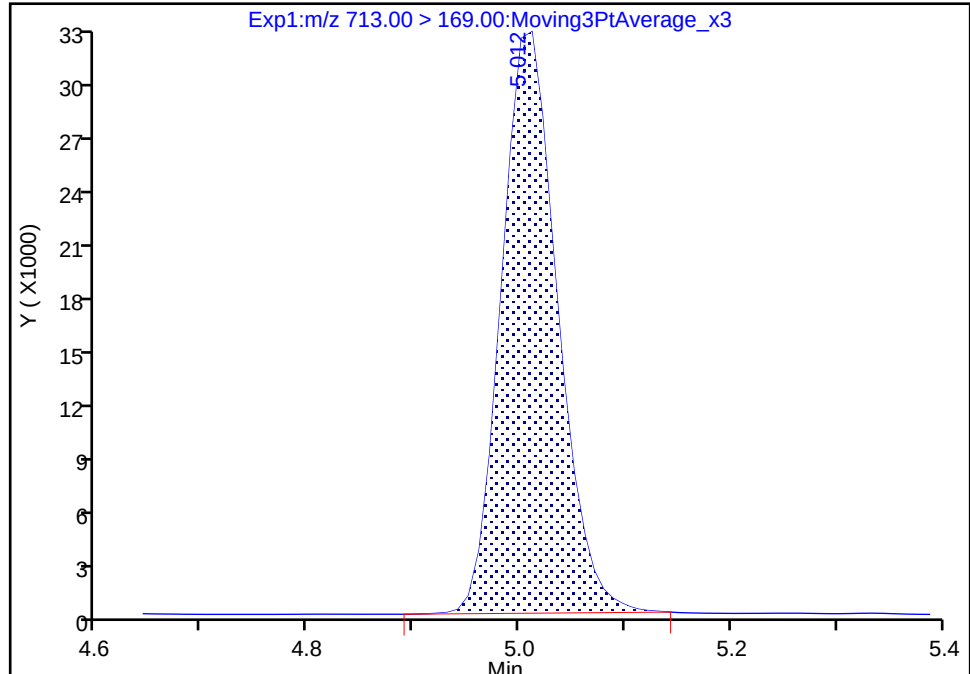
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d
Injection Date: 16-Nov-2022 20:20:59 Instrument ID: LC812
Lims ID: LCS 200-185793/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

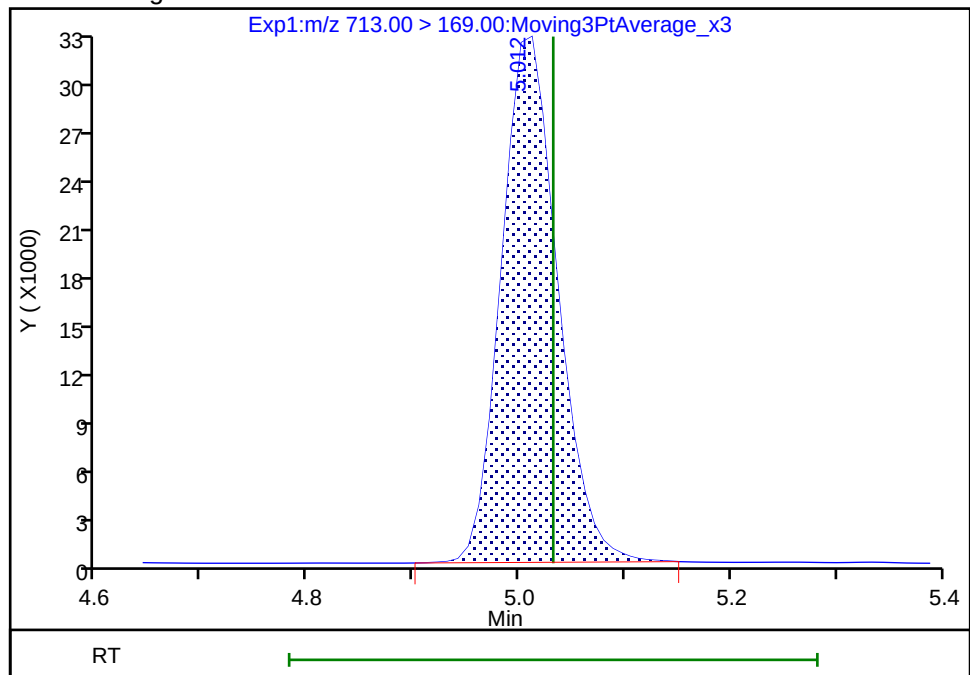
RT: 5.01
Area: 119918
Amount: 0.801972
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 120123
Amount: 0.803343
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

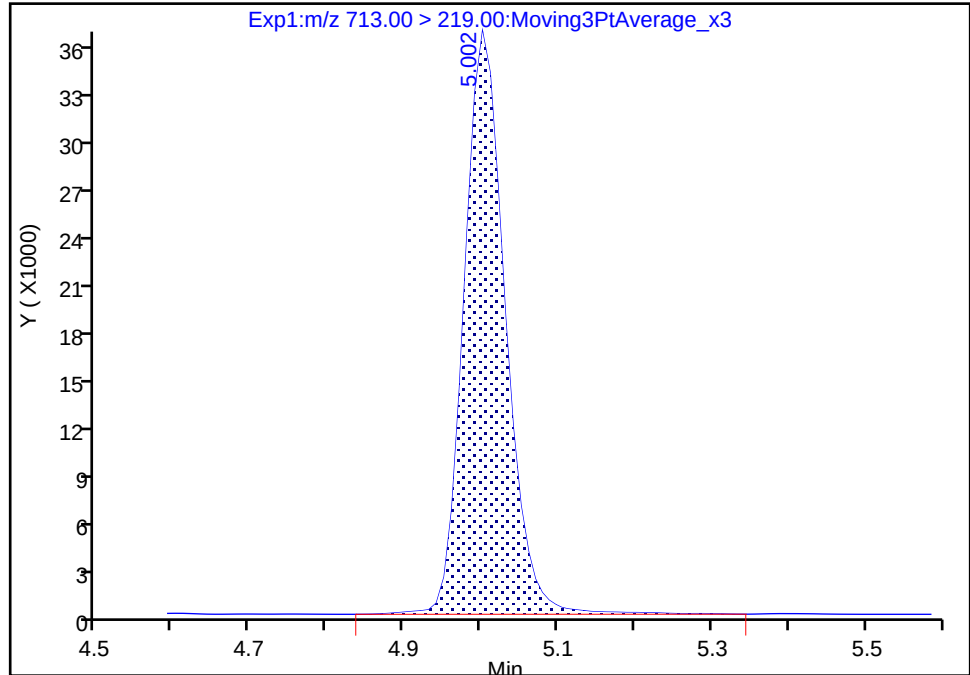
EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

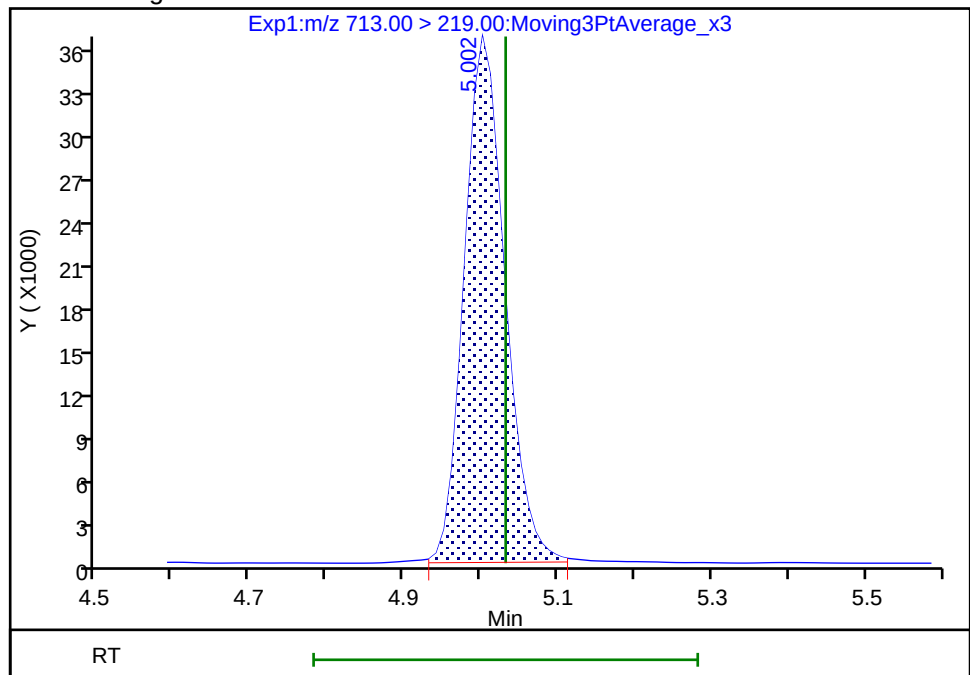
RT: 5.00
Area: 136856
Amount: 0.801972
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 134481
Amount: 0.803343
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:53:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

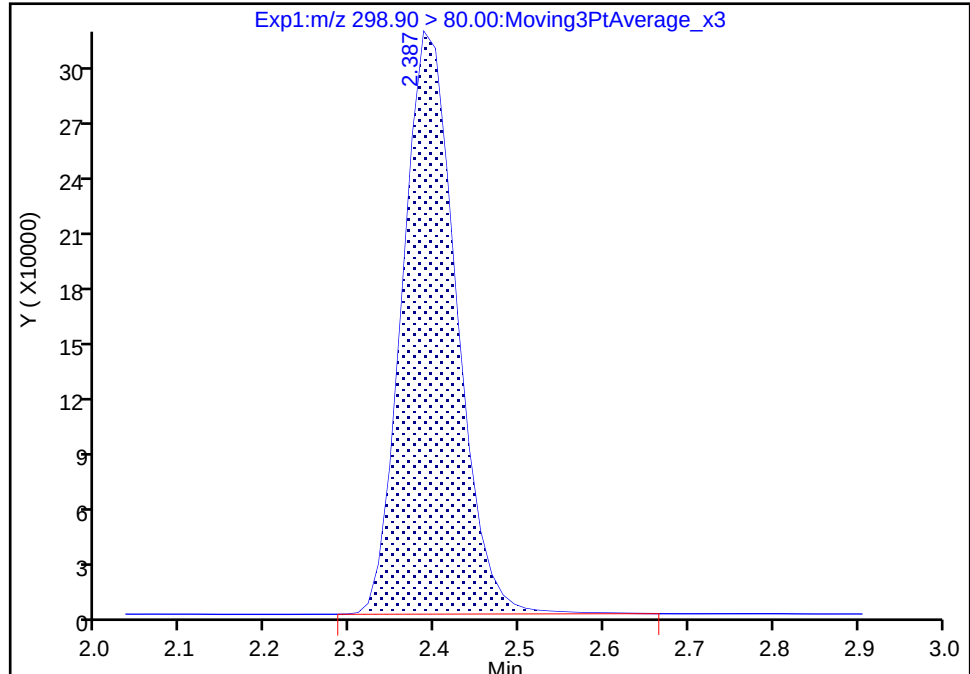
Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

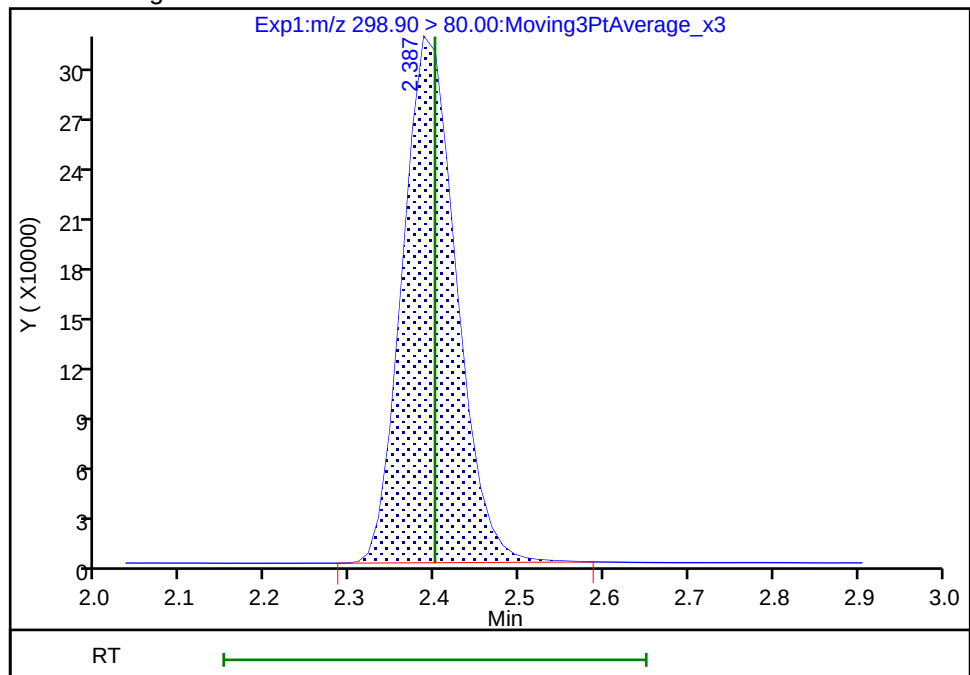
RT: 2.39
Area: 1402056
Amount: 0.848619
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1396672
Amount: 0.845361
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

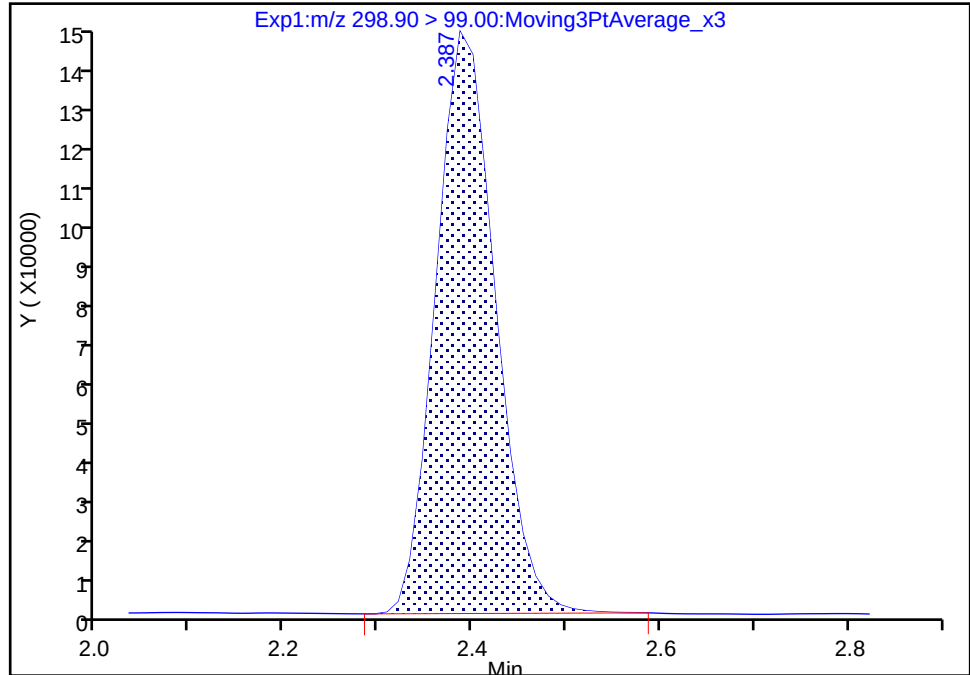
EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

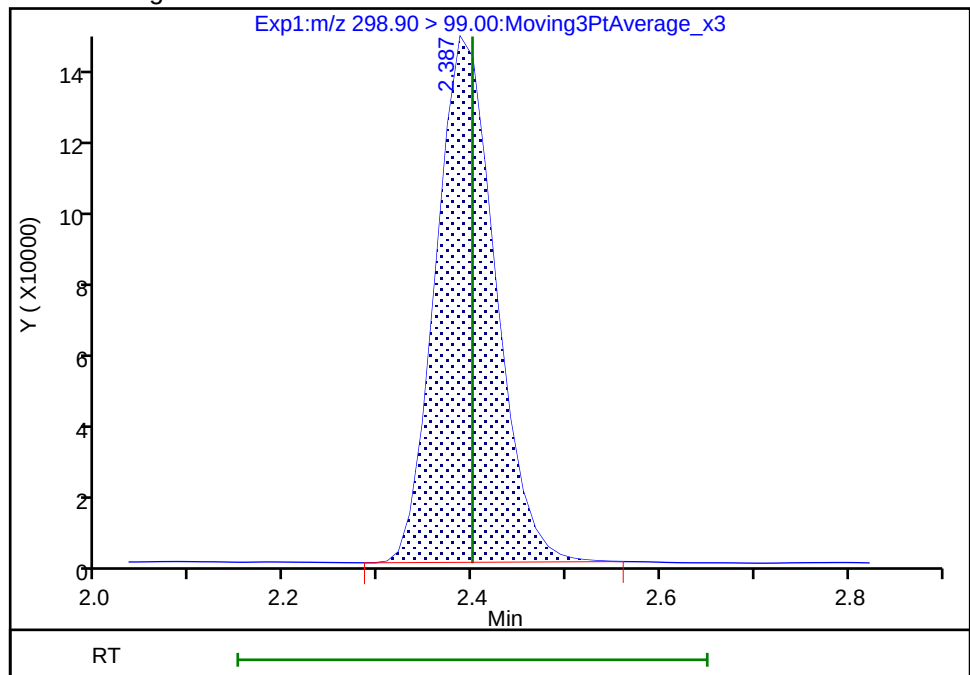
RT: 2.39
Area: 645495
Amount: 0.848619
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 644561
Amount: 0.845361
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

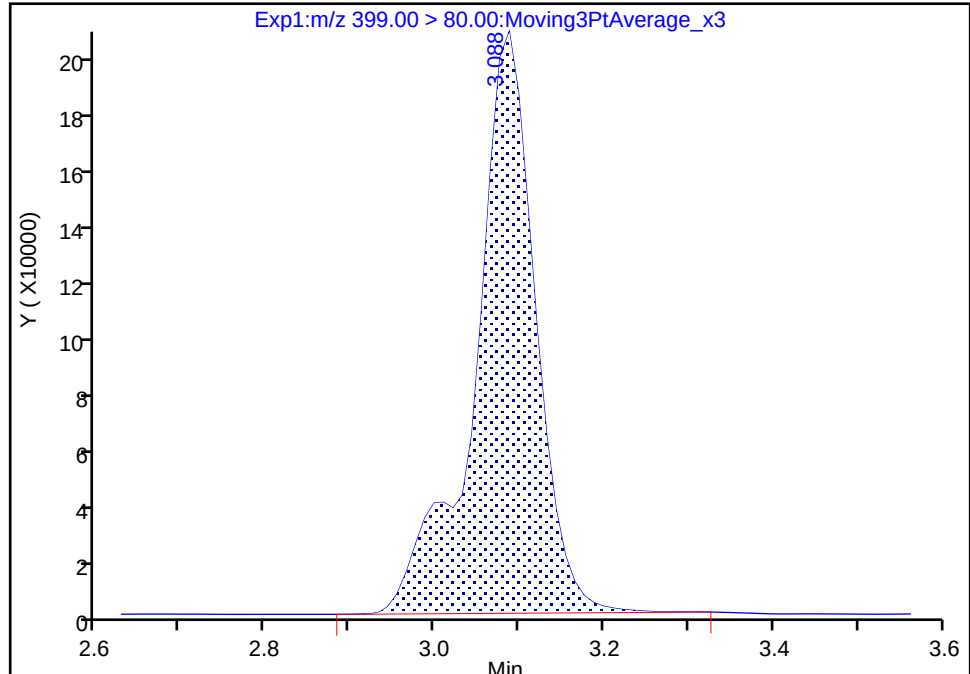
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

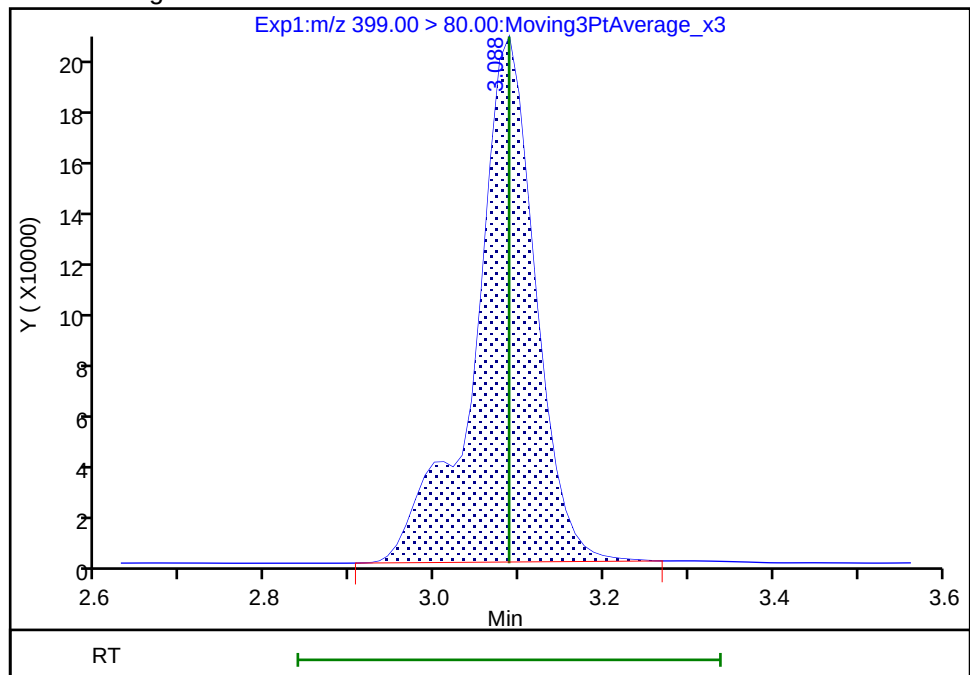
RT: 3.09
Area: 1029676
Amount: 0.853978
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1026939
Amount: 0.851708
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

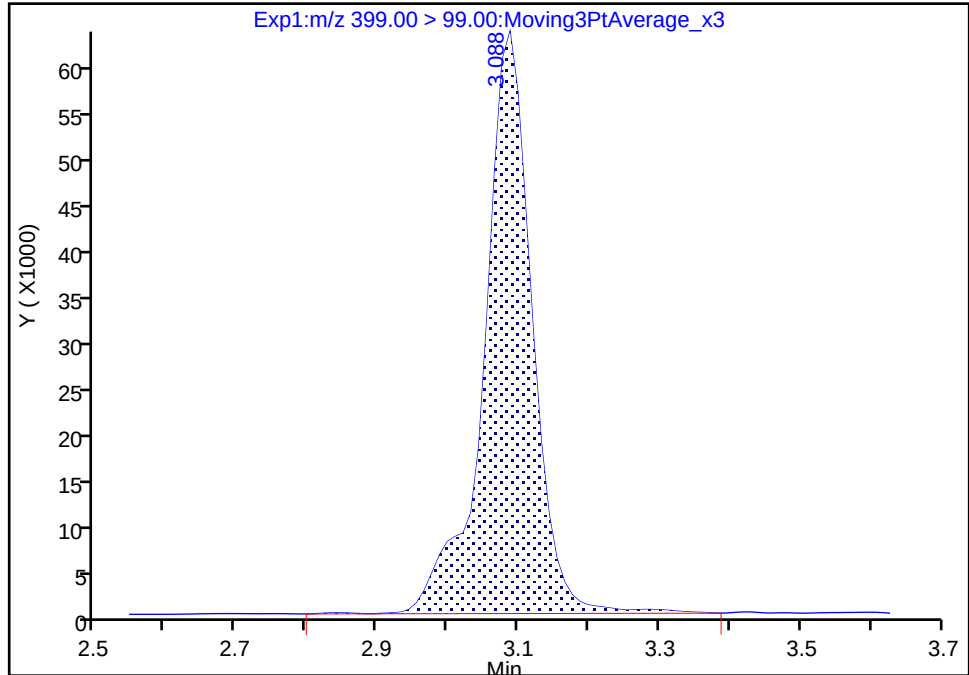
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

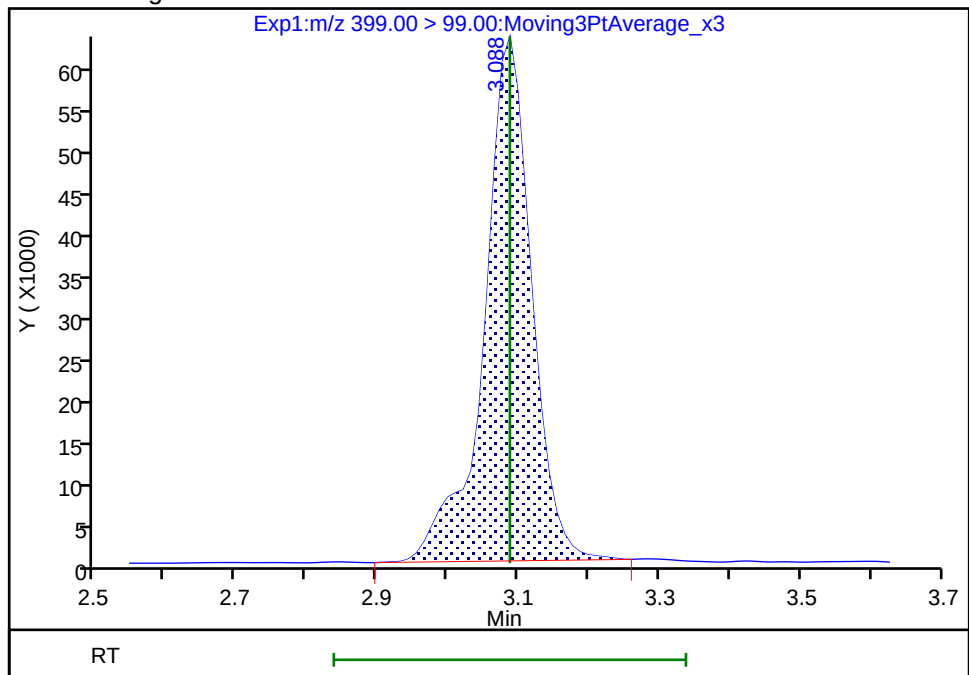
RT: 3.09
Area: 299951
Amount: 0.853978
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 293878
Amount: 0.851708
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:50:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

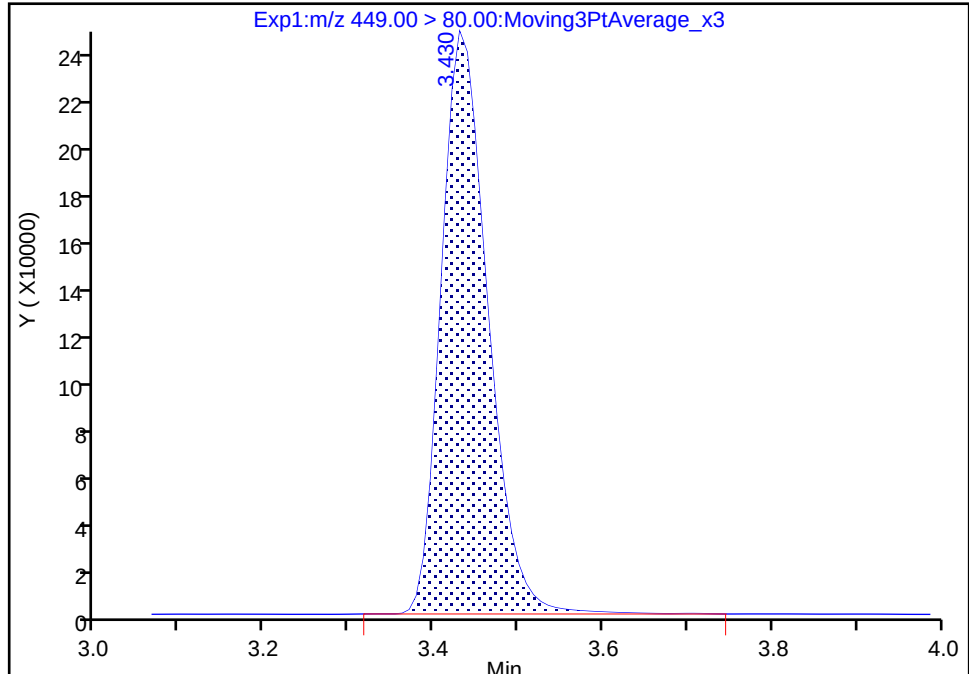
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

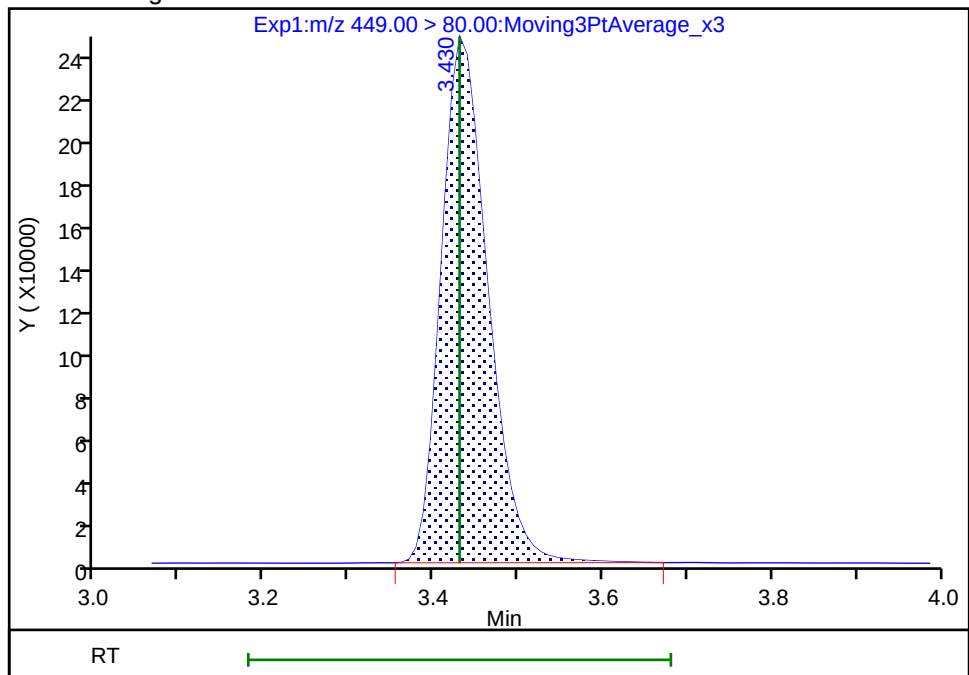
RT: 3.43
Area: 919170
Amount: 0.890367
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 916967
Amount: 0.888233
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

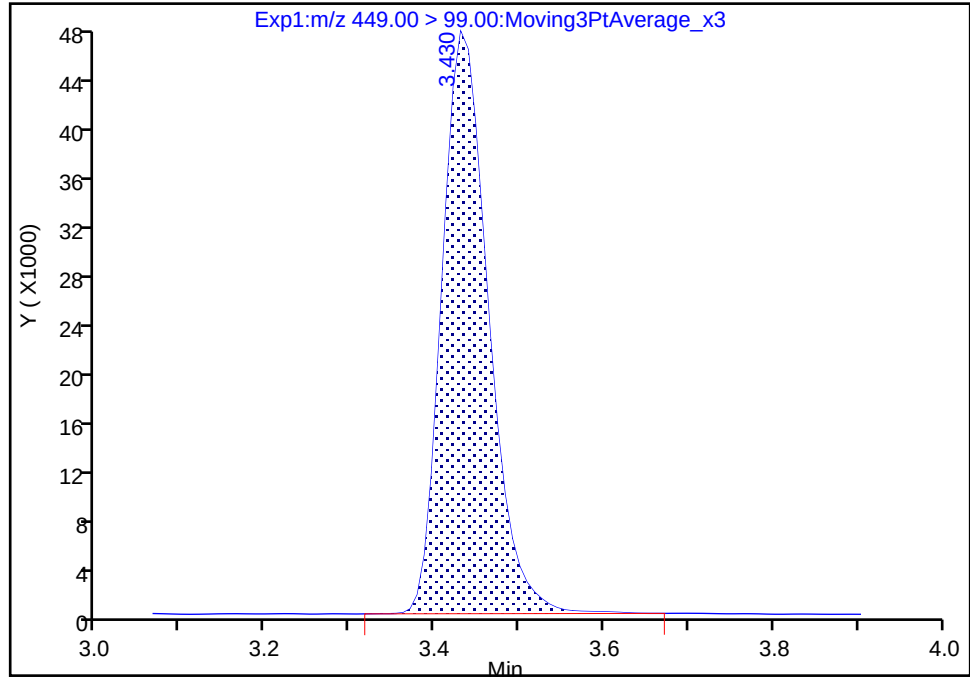
EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

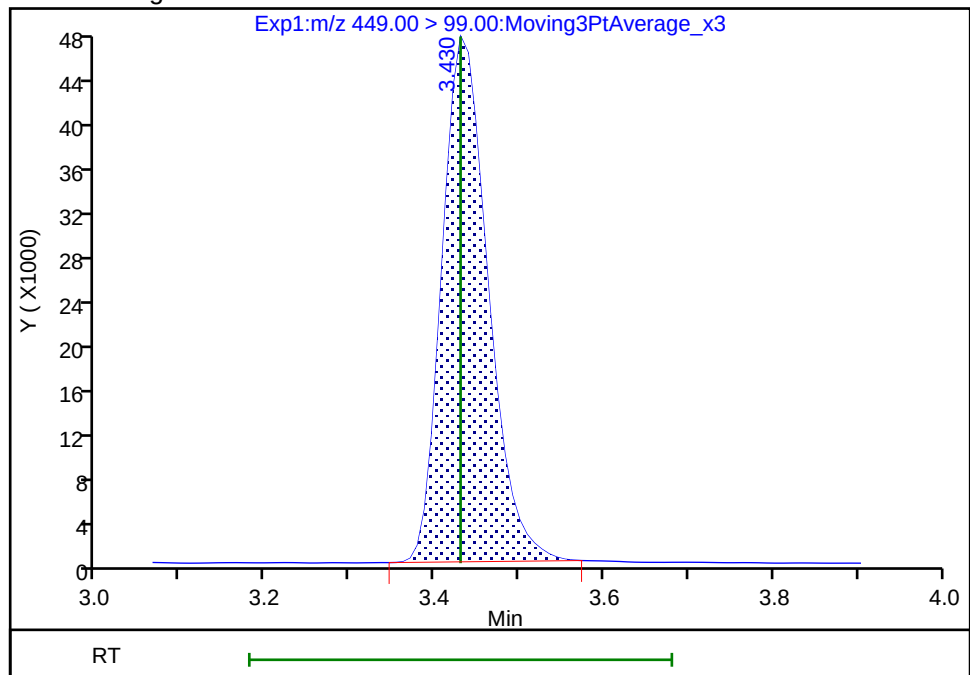
RT: 3.43
Area: 181324
Amount: 0.890367
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 179583
Amount: 0.888233
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

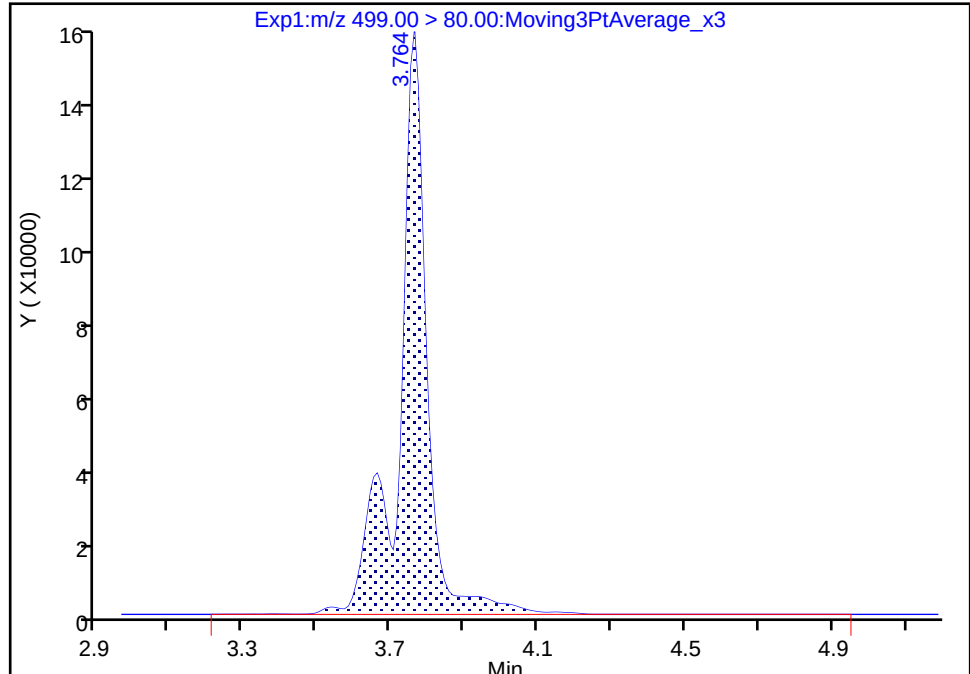
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

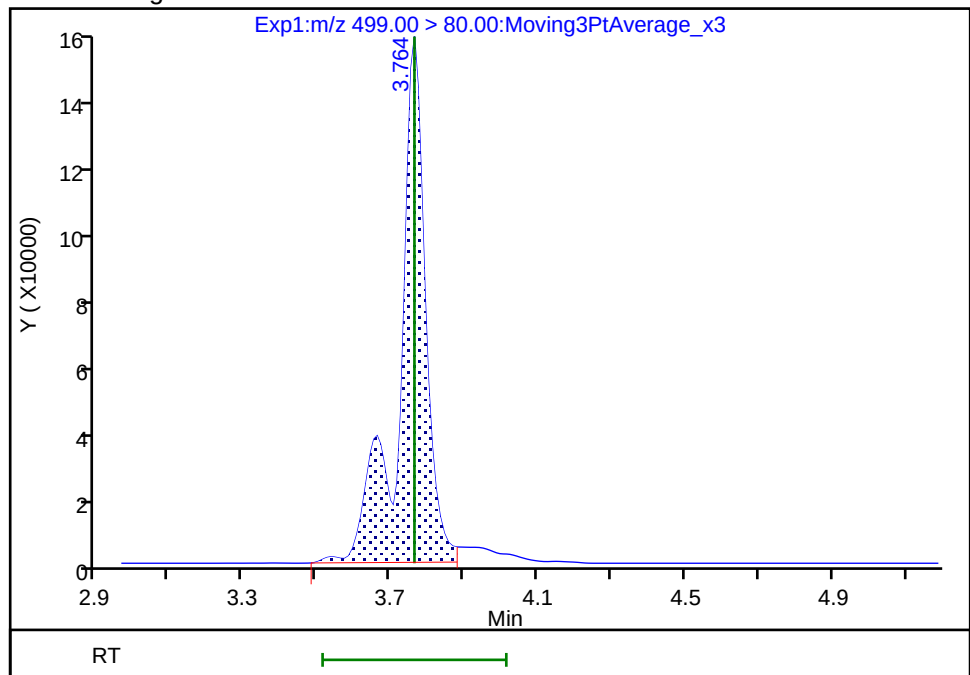
RT: 3.76
Area: 797647
Amount: 0.896031
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 748761
Amount: 0.841115
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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

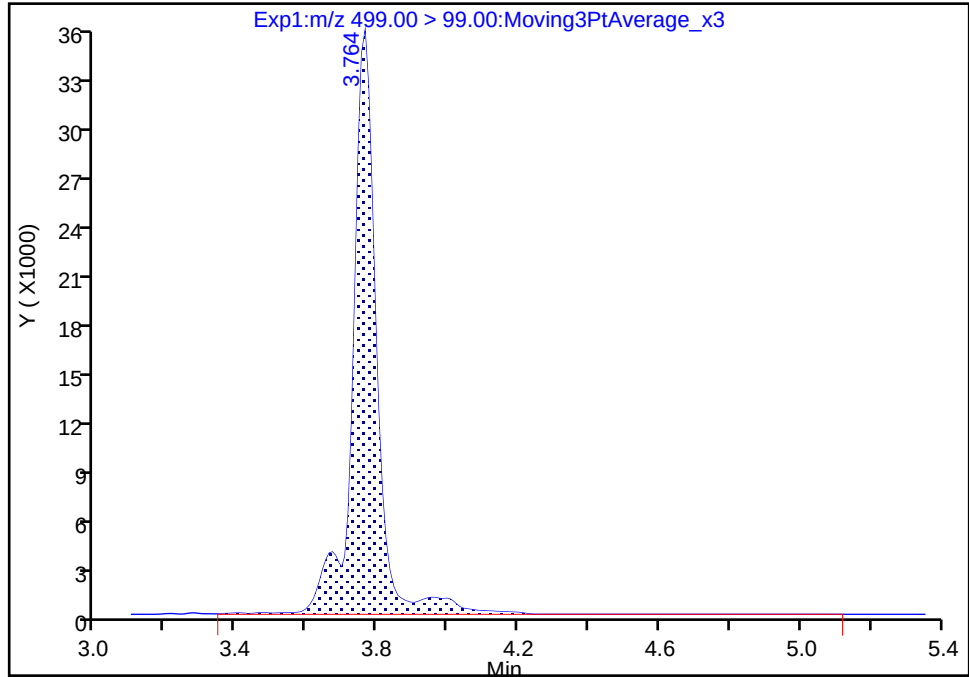
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

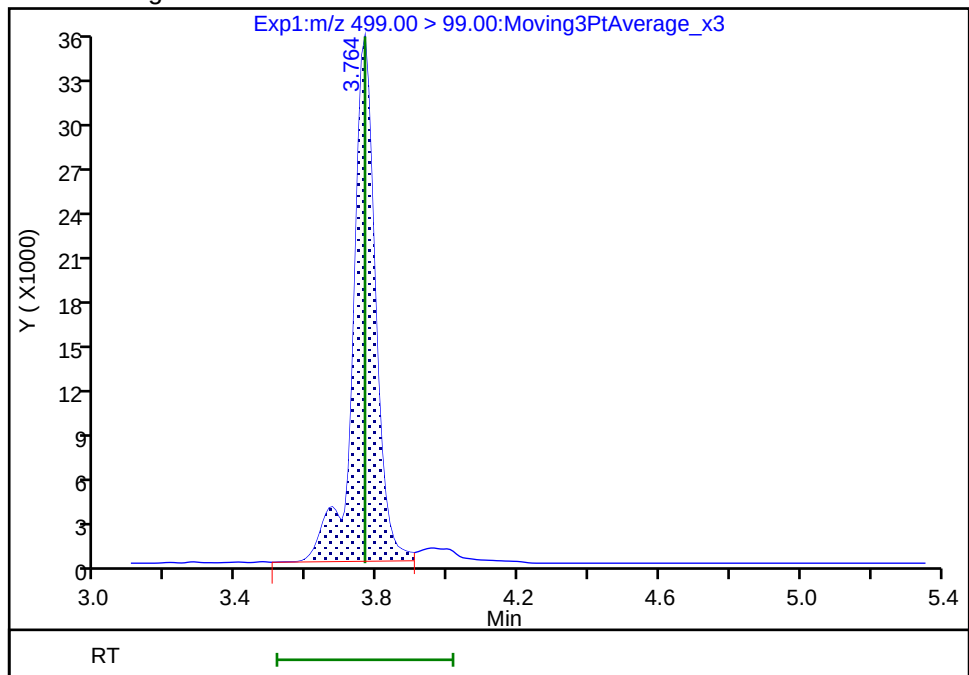
RT: 3.76
Area: 168712
Amount: 0.896031
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 156427
Amount: 0.841115
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:52:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

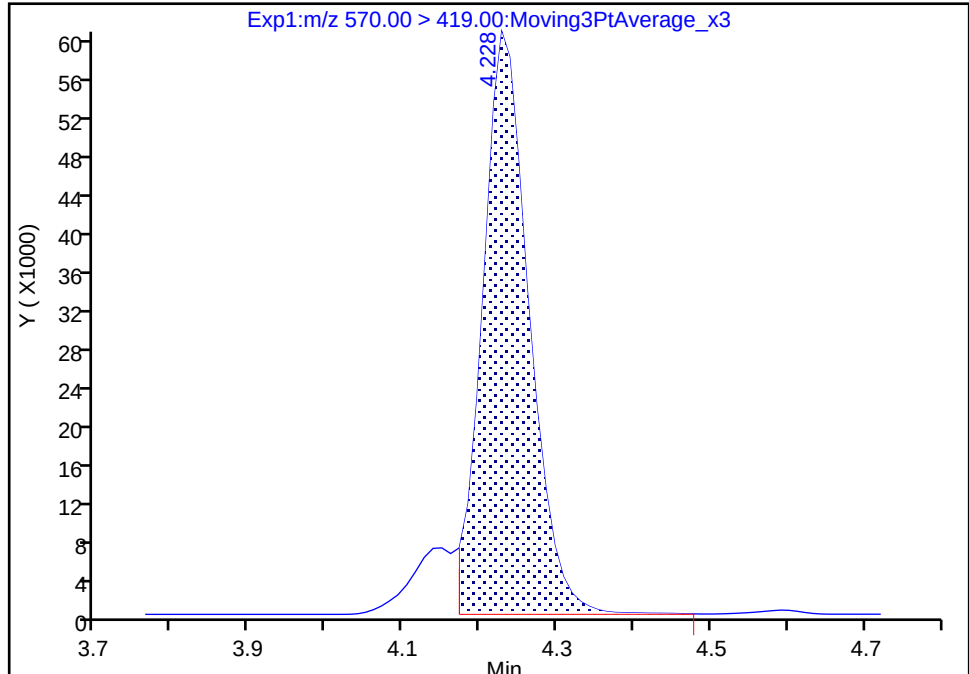
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d
Injection Date: 16-Nov-2022 20:20:59 Instrument ID: LC812
Lims ID: LCS 200-185793/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

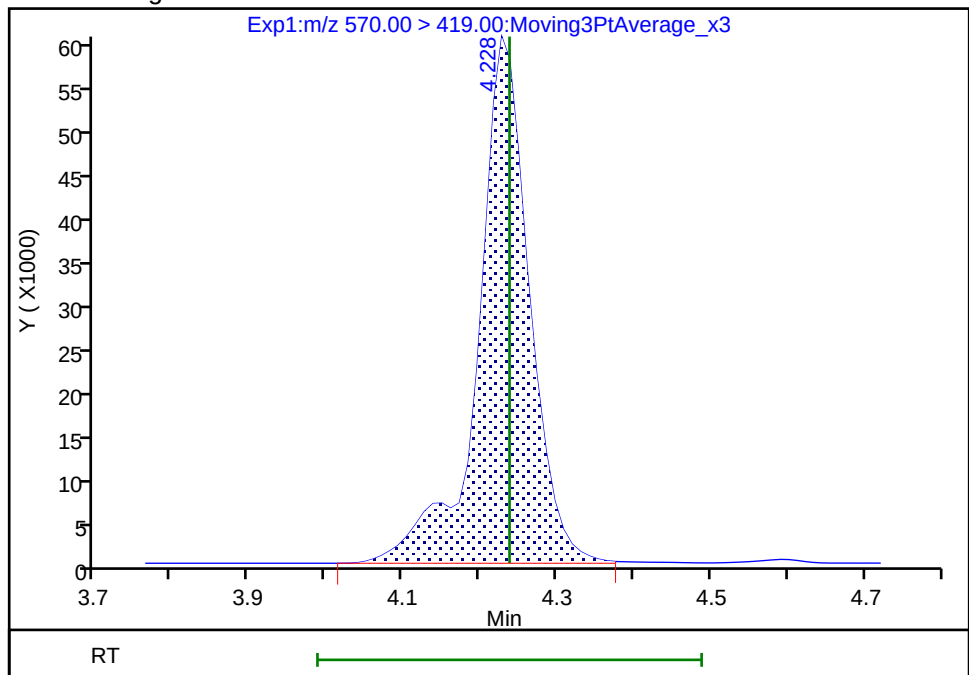
RT: 4.23
Area: 252764
Amount: 0.845898
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 280842
Amount: 0.939863
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:52:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

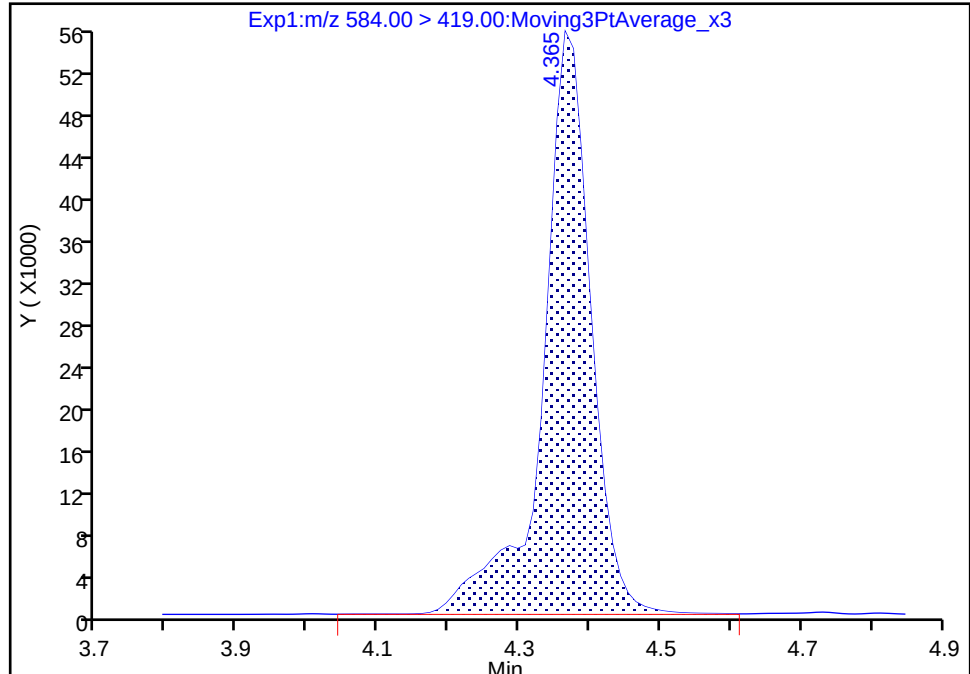
Detector: EXP1

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

Signal: 1

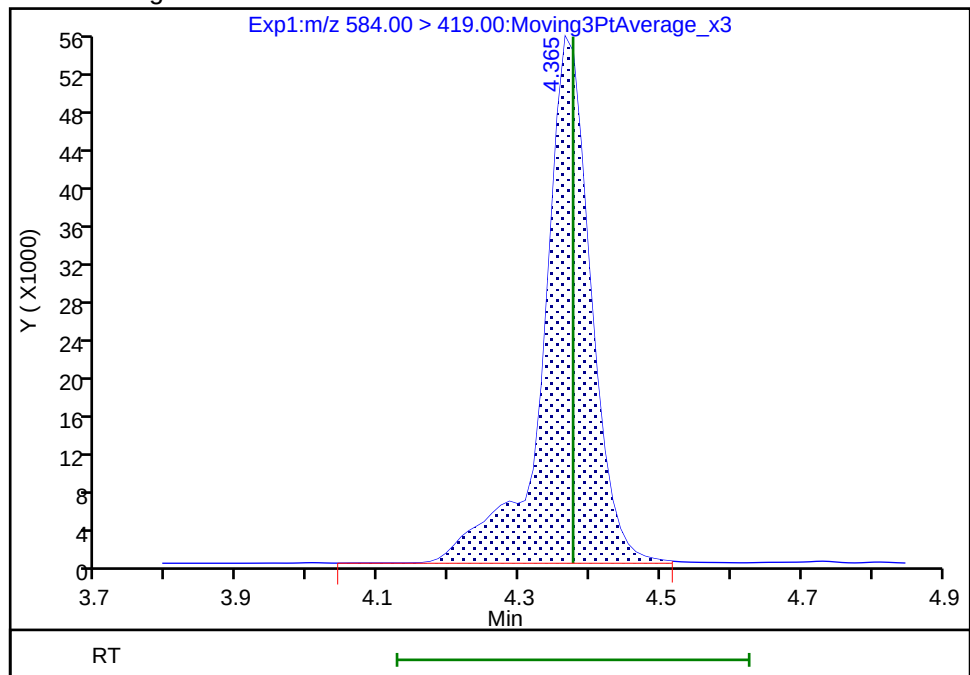
RT: 4.36
Area: 265558
Amount: 0.912275
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 264987
Amount: 0.910313
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:52:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

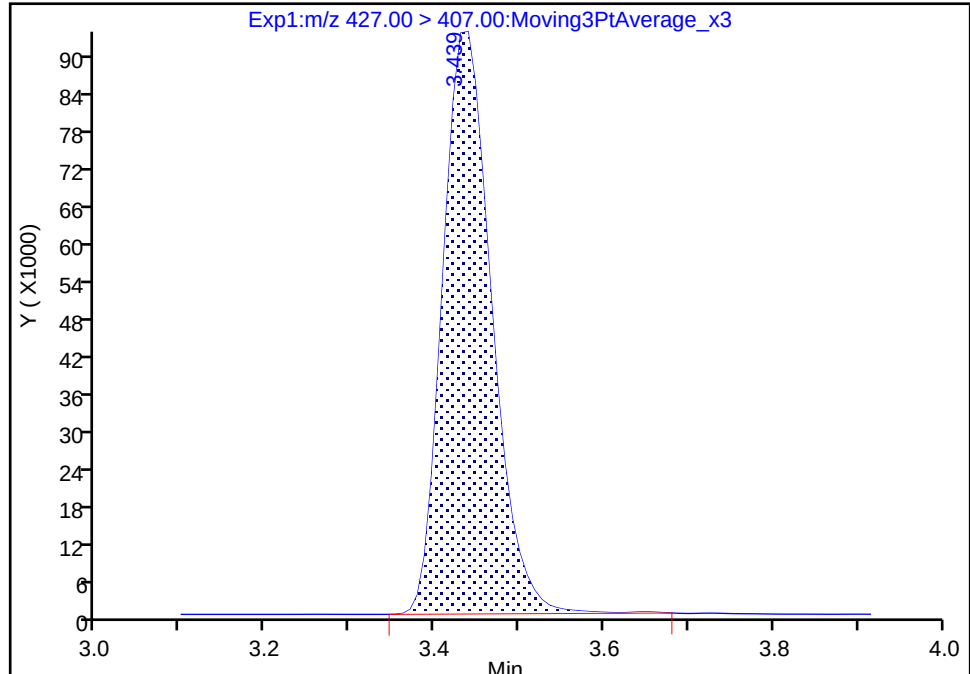
Detector: EXP1

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

Signal: 1

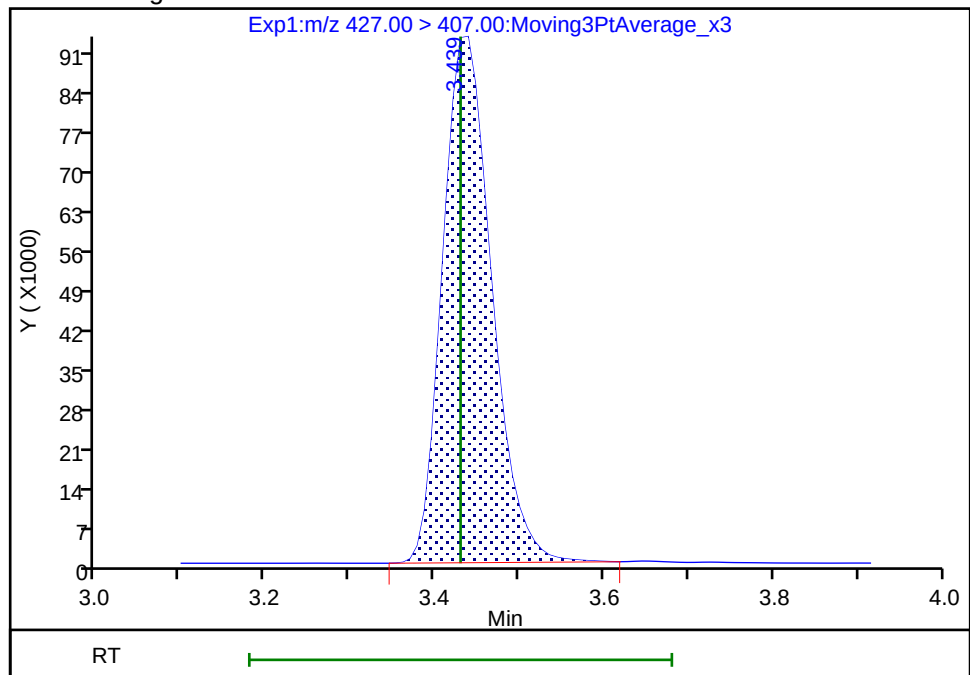
RT: 3.44
Area: 376593
Amount: 1.045718
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 375404
Amount: 1.042416
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:51:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

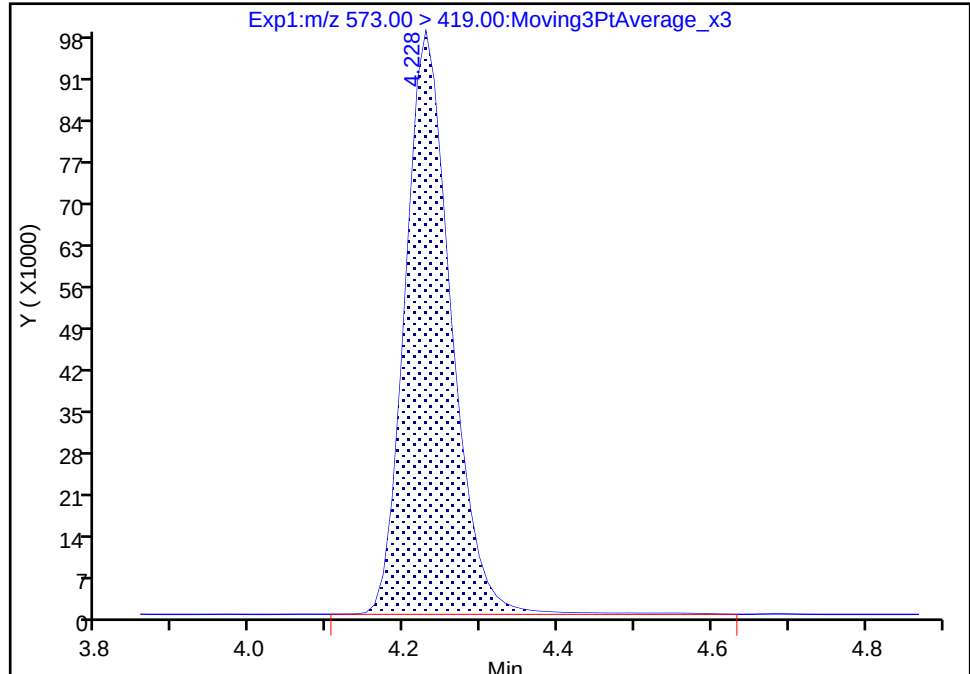
Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

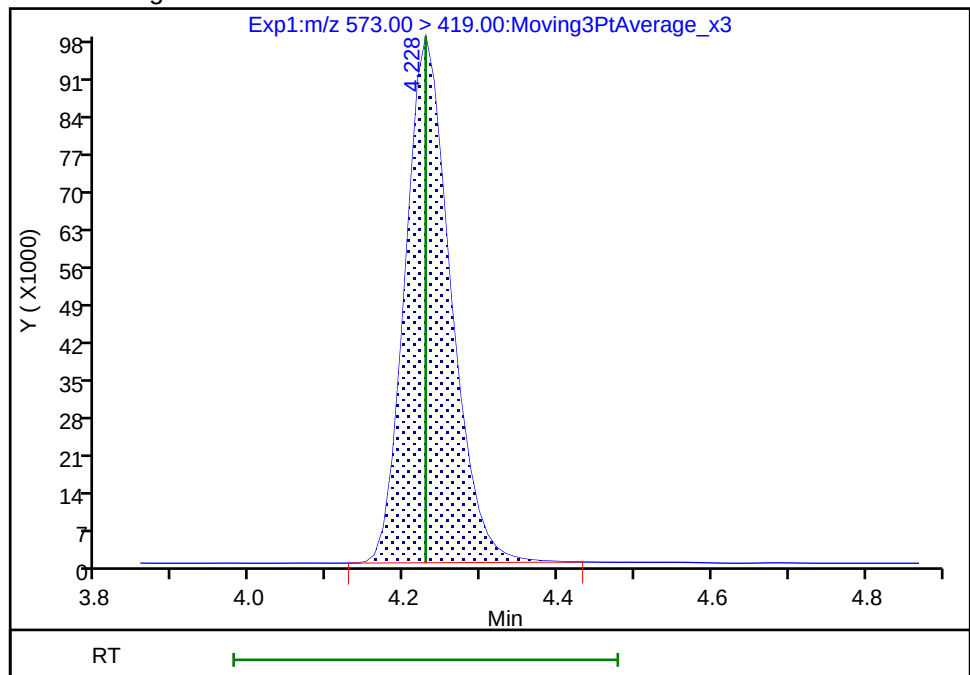
RT: 4.23
Area: 407792
Amount: 1.551449
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 403887
Amount: 1.536592
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:49:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D03.d

Injection Date: 16-Nov-2022 20:20:59

Instrument ID: LC812

Lims ID: LCS 200-185793/2-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)

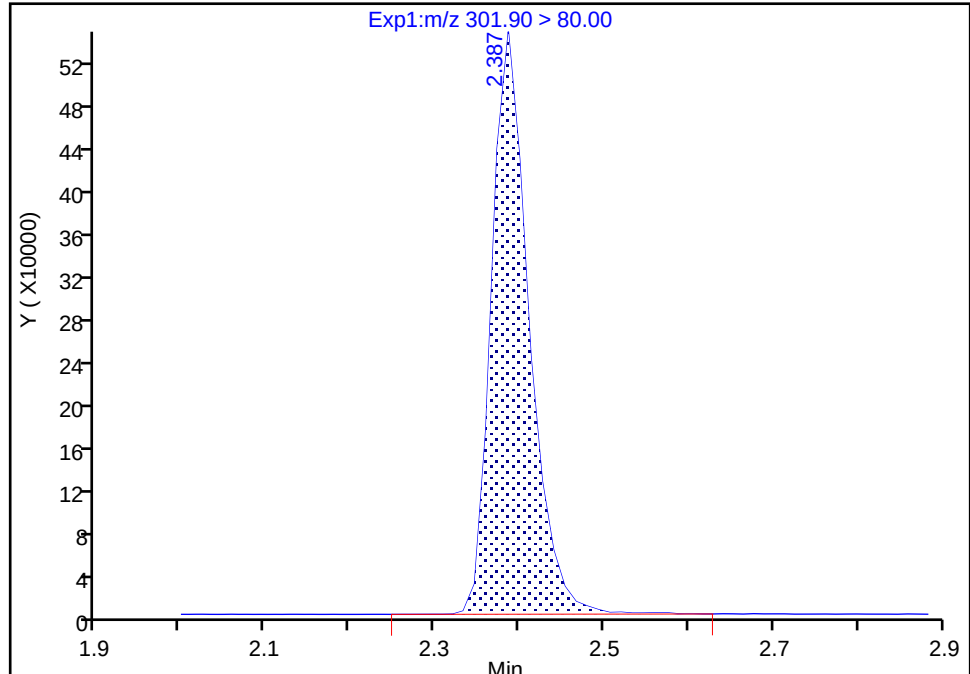
Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

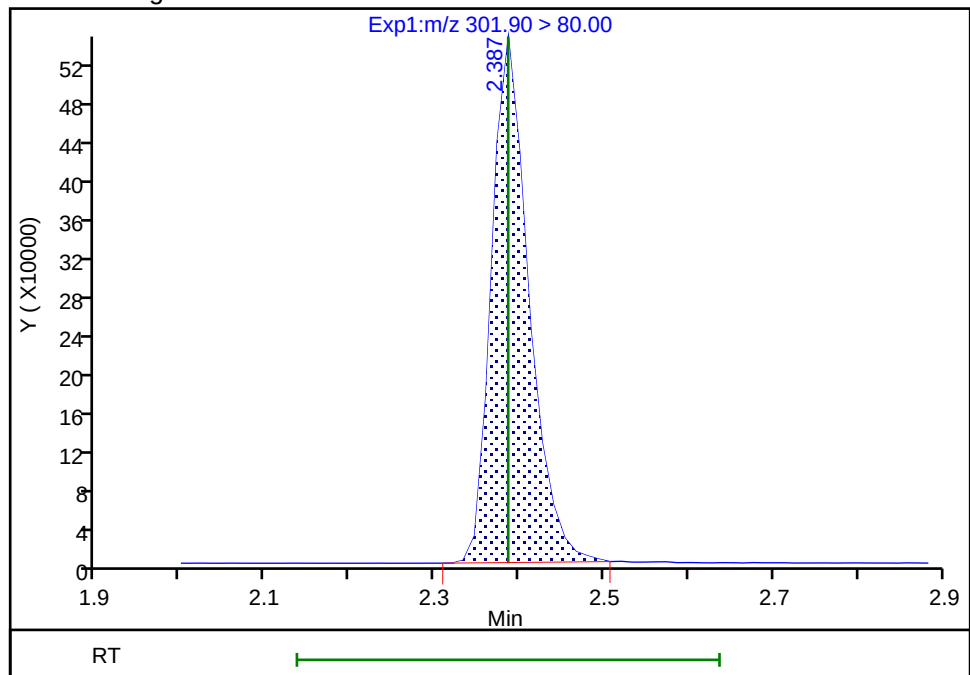
RT: 2.39
Area: 1680695
Amount: 0.907663
Amount Units: ng/ml

Processing Integration Results



RT: 2.39
Area: 1666038
Amount: 0.899748
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 13:49:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 460-268915-A-1-B MS

Matrix: Solid Lab File ID: PA221116D07.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.12(g) Date Analyzed: 11/16/2022 20:53

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

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

% Moisture: 13.0 % Solids: 87.0 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.224		0.56	0.37
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.330		0.22	0.062
307-24-4	Perfluorohexanoic acid (PFHxA)	2.063		0.22	0.052
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.149		0.22	0.044
335-67-1	Perfluorooctanoic acid (PFOA)	2.181		0.22	0.065
375-95-1	Perfluorononanoic acid (PFNA)	2.243		0.22	0.038
335-76-2	Perfluorodecanoic acid (PFDA)	2.261		0.22	0.031
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.183		0.22	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	2.077		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.884		0.22	0.028
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.968		0.22	0.029
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.873		0.22	0.037
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.921		0.22	0.046
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.069		0.22	0.026
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.023		0.22	0.12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.040		0.22	0.021
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.210		0.22	0.038
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.255		2.25	0.12
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.183	J	2.25	0.093
27619-97-2	6:2 FTS	2.562		2.25	0.064
39108-34-4	8:2 FTS	2.835		2.25	0.042

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>460-269226-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-268915-A-1-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>PA221116D07.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: _____
Extraction Method: <u>SHAKE</u>	Date Extracted: <u>11/15/2022 15:30</u>
Sample wt/vol: <u>5.12(g)</u>	Date Analyzed: <u>11/16/2022 20:53</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>13.0</u> % Solids: <u>87.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>185848</u>	Units: <u>ug/Kg</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	83		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	86		50-150
STL00991	13C4 PFOS	85		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	71		50-150
STL00993	13C2 PFHxA	85		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	101		50-150
STL00998	13C2 PFDoA	97		50-150
STL01056	13C8 FOSA	84		50-150
STL01893	13C5 PFPeA	76		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	126		50-150
STL02117	d5-NEtFOSAA	127		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02280	M2-8:2 FTS	85		50-150
STL02337	13C3 PFBS	79		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
 Lims ID: 460-268915-A-1-B MS
 Client ID: 11OC F-1
 Sample Type: MS
 Inject. Date: 16-Nov-2022 20:53:44 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-268915-A-1-B MS
 Misc. Info.: 200-0053360-007 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:21 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 14:24:19

Ratio Calibration: Initial Calibration Level: 4

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

D 1 13C4 PFBA

217.00 > 172.00 2.076 2.068 0.008 0.602 2042953 0.8933 71.5 5185

2 Perfluorobutanoic acid

212.90 > 169.00 2.076 2.076 0.0 1.000 1639202 0.99 99.1 129 M

D 3 13C5 PFPeA

267.90 > 223.00 2.373 2.373 0.0 0.688 1705549 0.9478 75.8 2662

4 Perfluoropentanoic acid

262.90 > 219.00 2.373 2.373 0.0 1.000 1515012 1.04 104 33.6 M

D 47 13C3 PFBS

301.90 > 80.00 2.387 2.386 0.001 0.692 1679174 0.9211 79.2 270409

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.400 2.400 0.0 1.006 1389288 0.8343 Target=2.19 94.4 1543

298.90 > 99.00 2.400 2.400 0.0 1.006 674580 2.06(1.09-3.28) 293

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.689 2.689 0.0 1.000 375658 1.02 109 1856

D 60 M2-4:2 FTS

329.00 > 81.00 2.689 2.689 0.0 0.780 159112 0.9629 82.5 157 M

D 7 13C2 PFHxA

315.00 > 270.00 2.725 2.725 0.0 0.791 1947063 1.06 85.1 3979

6 Perfluorohexanoic acid

313.00 > 269.00 2.725 2.725 0.0 1.000 1554221 0.9191 Target=13.67 91.9 268 M

313.00 > 119.00 2.725 2.725 0.0 1.000 113515 13.69(6.83-20.50) 168 M

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.725 2.725 0.0 0.883 1283905 0.8619 Target=3.00 91.9 2010

349.00 > 99.00 2.725 2.725 0.0 0.883 432123 2.97(1.50-4.51) 743

D 64 13C3 HFPO-DA

287.00 > 169.00 2.835 2.823 0.012 0.822 323151 0.9409 75.3 1921

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	2.823	0.012	1.000	279040	0.9881		98.8	1159	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.088	3.088	0.0	0.896	1283481	0.9861		83.4	3581	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.088	3.088	0.0	1.000	1080419	0.8557	Target=3.60	94.0	760	M
399.00 > 99.00	3.088	3.088	0.0	1.000	295626		3.65(1.80-5.40)		318	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.088	3.088	0.0	0.896	1964994	1.09		87.4	4434	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.099	3.088	0.011	1.004	1676971	0.9572	Target=3.76	95.7	325	M
363.00 > 169.00	3.099	3.088	0.011	1.004	439139		3.82(1.88-5.65)		722	M
77 DONA										
377.00 > 251.00	3.132	3.121	0.011	0.832	3949464	0.9691	Target=3.10	103	3952	
377.00 > 85.00	3.132	3.121	0.011	0.832	1235931		3.20(1.55-4.65)		1645	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.439	3.430	0.009	0.914	952100	0.9216	Target=5.32	96.8	1444	M
449.00 > 99.00	3.430	3.430	0.0	0.911	178284		5.34(2.66-7.97)		624	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.439	3.430	0.009	0.997	232326	1.05		88.0	670	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.439	3.430	0.009	1.000	406691	1.14		120	894	M
D 14 13C4 PFOA										
417.00 > 372.00	3.448	3.439	0.009	1.000	2055449	1.07		85.5	4257	
* 62 13C2 PFOA										
415.00 > 370.00	3.448	3.439	0.009		2343789	1.25			4760	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.448	3.439	0.009	1.000	1807707	0.9712	Target=2.73	97.1	120	M
413.00 > 169.00	3.448	3.439	0.009	1.000	628224		2.88(1.37-4.10)		840	M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.764	0.0	1.092	876184	1.02		85.5	2211	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.764	3.764	0.0	1.000	802730	0.9011	Target=5.09	97.1	157	M
499.00 > 99.00	3.764	3.764	0.0	1.000	154549		5.19(2.55-7.64)		144	M
D 19 13C5 PFNA										
468.00 > 423.00	3.783	3.783	0.0	1.097	2101129	1.11		88.9	6622	
20 Perfluorononanoic acid										
463.00 > 419.00	3.783	3.783	0.0	1.000	1762654	1.00	Target=7.76	99.9	378	
463.00 > 169.00	3.783	3.783	0.0	1.000	191401		9.21(3.88-11.63)		863	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.928	3.928	0.0	1.044	1876053	1.05		113	4106	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.061	0.0	1.079	612864	0.9442	Target=2.67	98.4	2184	
549.00 > 99.00	4.061	4.061	0.0	1.079	228505		2.68(1.34-4.01)		1121	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.093	-0.012	1.184	2141588	1.17		93.2	3961	

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	4.093	-0.012	1.000	1855625	1.01	Target=9.83	101	671	
513.00 > 169.00	4.093	4.093	0.0	1.003	168805		10.99(4.91-14.74)		239	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.093	4.093	0.0	1.187	267973	1.02		85.1	986	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.093	0.0	1.000	350195	1.26		132	1826	M
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.138	0.012	1.204	1580076	1.06		84.4	2713	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.138	0.012	1.000	1256329	0.9842		98.4	1444	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.228	4.228	0.0	1.226	406648	1.57		126	614	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.228	4.238	-0.010	1.000	302214	1.00		100	575	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.331	4.331	0.0	1.151	459764	0.9088	Target=2.59	94.3	1959	M
599.00 > 99.00	4.331	4.331	0.0	1.151	177750		2.59(1.30-3.89)		1555	
D 30 13C2 PFUnA										
565.00 > 520.00	4.353	4.365	-0.012	1.263	1901633	1.26		101	4500	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.353	4.365	-0.012	1.000	1542858	0.9722	Target=9.68	97.2	592	M
563.00 > 169.00	4.353	4.365	-0.012	1.000	140236		11.00(4.84-14.53)		824	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.365	4.376	-0.011	1.266	408008	1.59		127	1131	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.376	4.376	0.0	1.003	290033	0.9725		97.2	1113	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.454	4.465	-0.011	1.183	2535849	1.09		116	4560	
D 36 13C2 PFDaA										
615.00 > 570.00	4.591	4.602	-0.011	1.332	1772628	1.21		96.6	3249	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.602	4.602	0.0	1.002	1401576	0.9249	Target=6.96	92.5	116	M
613.00 > 169.00	4.591	4.602	-0.011	1.000	198425		7.06(3.48-10.43)		1392	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.622	-0.010	1.127	196886	1.31		136	1278	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.776	4.785	-0.009	1.269	152230	0.7402	Target=0.52	76.5	1475	
699.00 > 99.00	4.776	4.785	-0.009	1.269	305522		0.50(0.26-0.78)		3144	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.813	4.825	-0.012	1.048	1165556	0.8392	Target=4.85	83.9	105	M
663.00 > 169.00	4.813	4.825	-0.012	1.048	219657		5.31(2.42-7.27)		626	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.032	-0.020	1.454	1236296	0.9859		78.9	5560	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.012	5.032	-0.020	1.000	134824	0.8764	Target=0.99	87.6	838	
713.00 > 219.00	5.012	5.032	-0.020	1.000	143426		0.94(0.49-1.48)		656	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	5.400	-0.033	1.557	1634576	1.18		94.5	4620	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.378	5.411	-0.033	1.002	1256870	1.06	Target=4.99	106	163	M
813.00 > 169.00	5.378	5.411	-0.033	1.002	217403		5.78(2.49-7.48)		1407	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.786	-0.064	1.066	1072291	1.13	Target=4.90	113	157	M
913.00 > 169.00	5.722	5.786	-0.064	1.066	172808		6.21(2.45-7.35)		524	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d

Injection Date: 16-Nov-2022 20:53:44

Instrument ID: LC812

Lims ID: 460-268915-A-1-B MS

Client ID: 11OC F-1

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

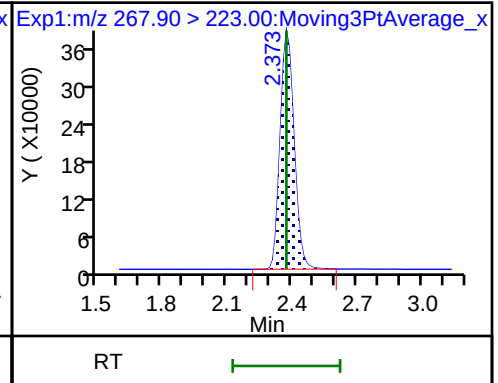
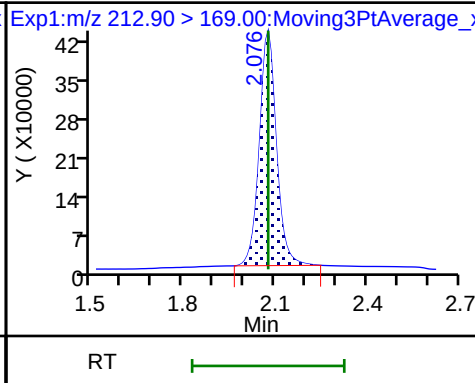
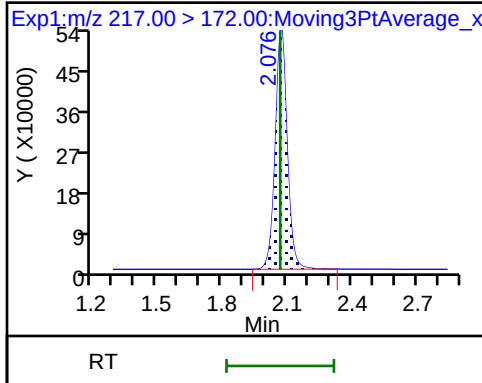
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

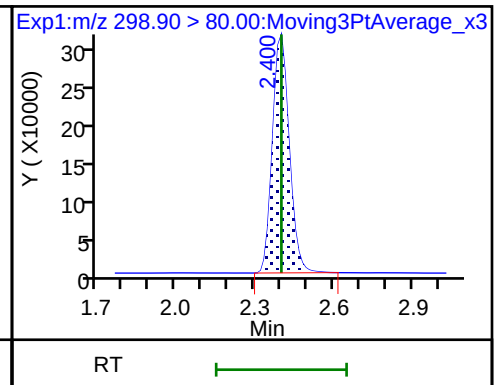
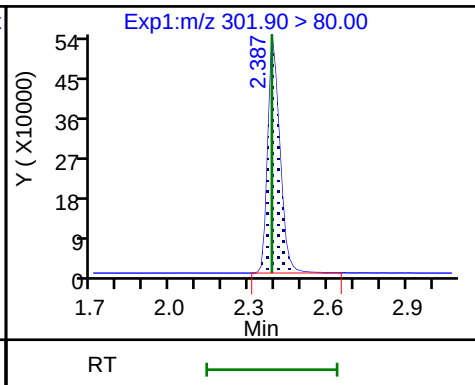
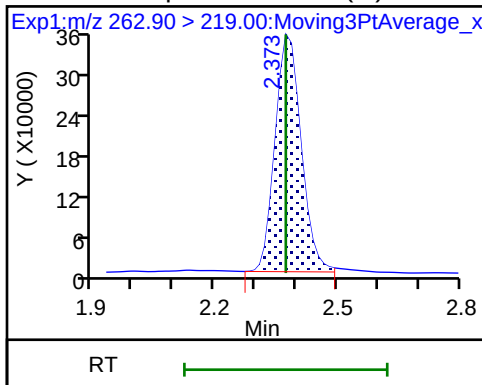
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

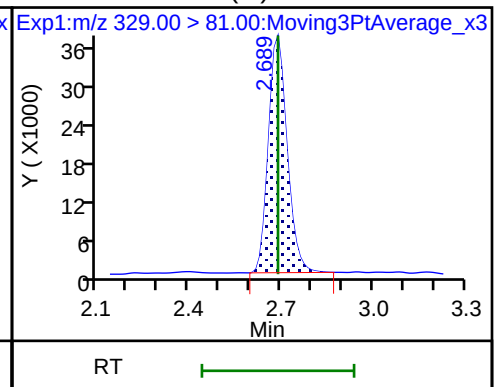
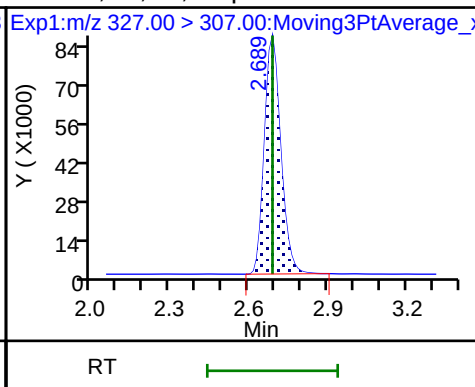
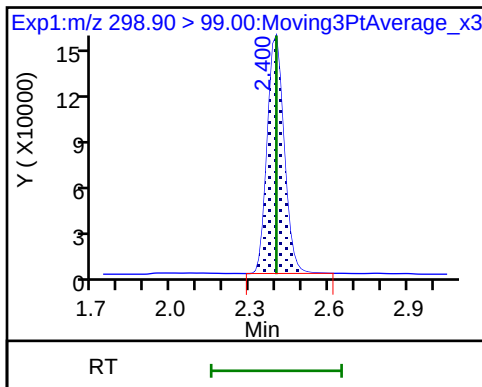
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

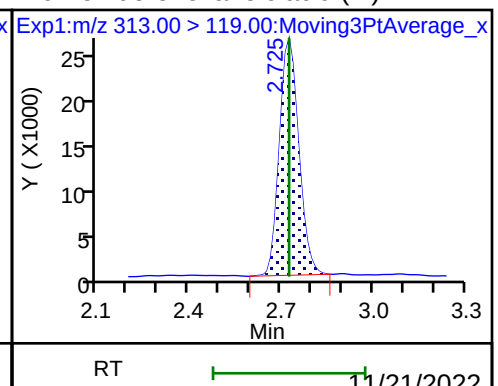
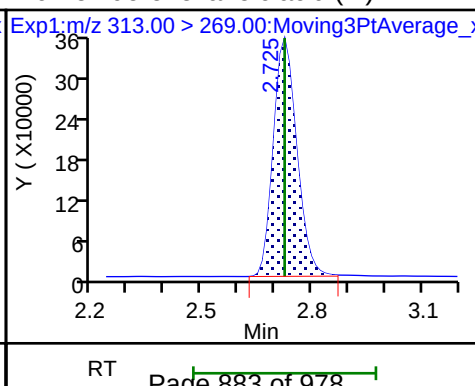
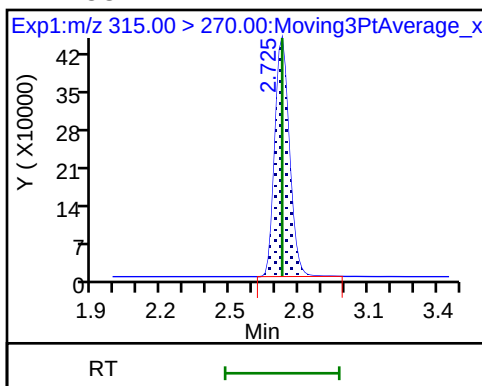
D 60 M2-4:2 FTS (M)

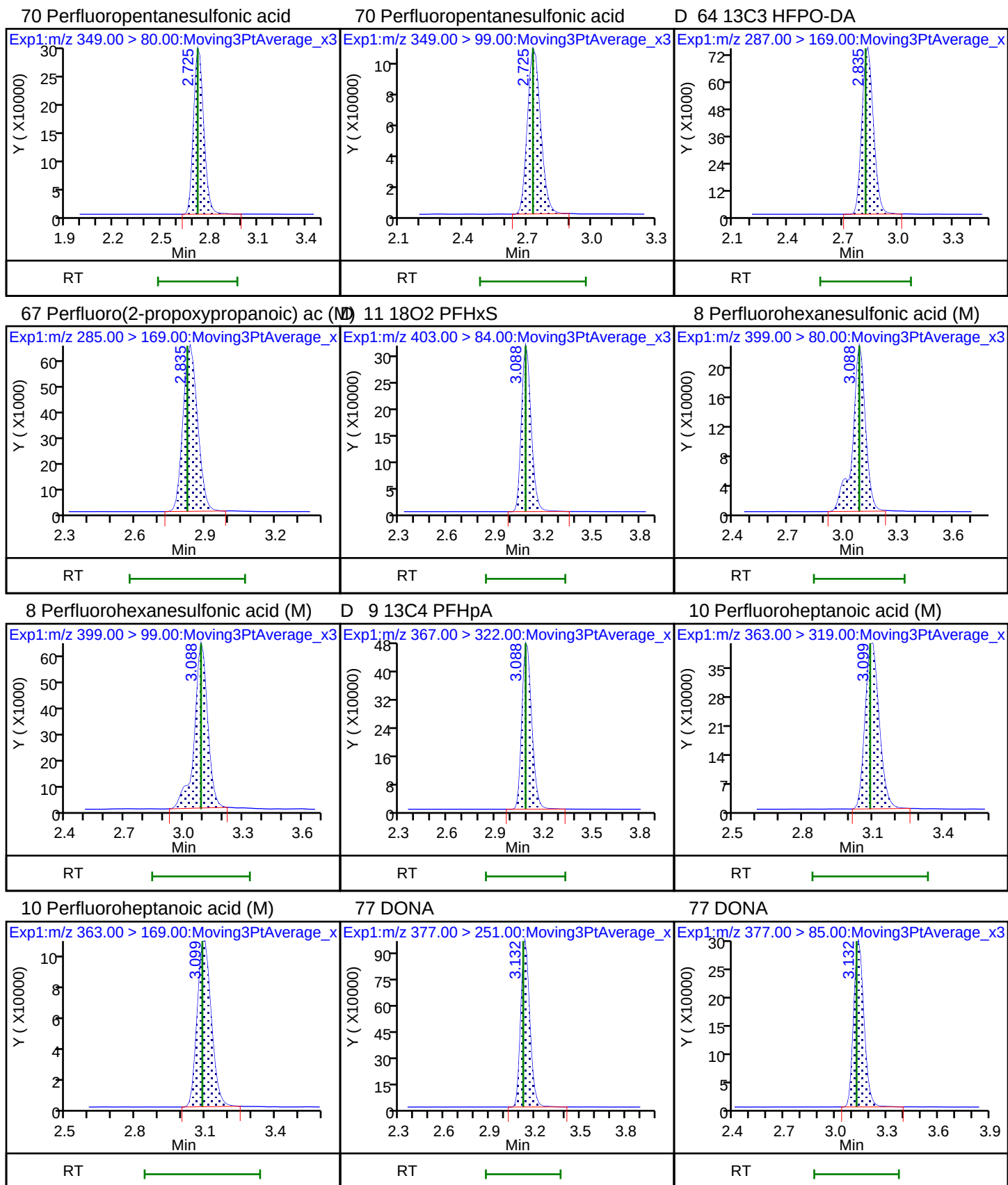


D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

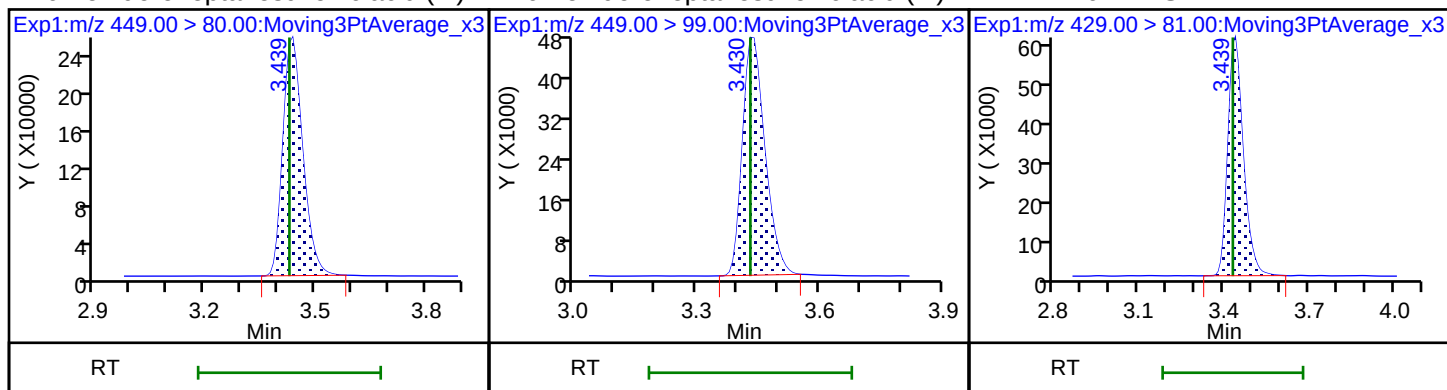




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

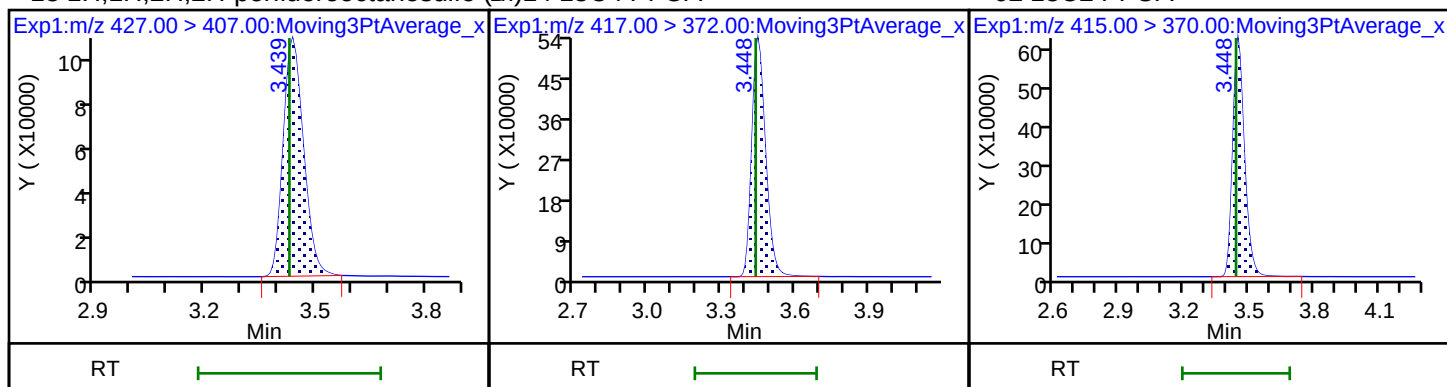
D 12 M2-6:2 FTS



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

14 13C4 PFOA

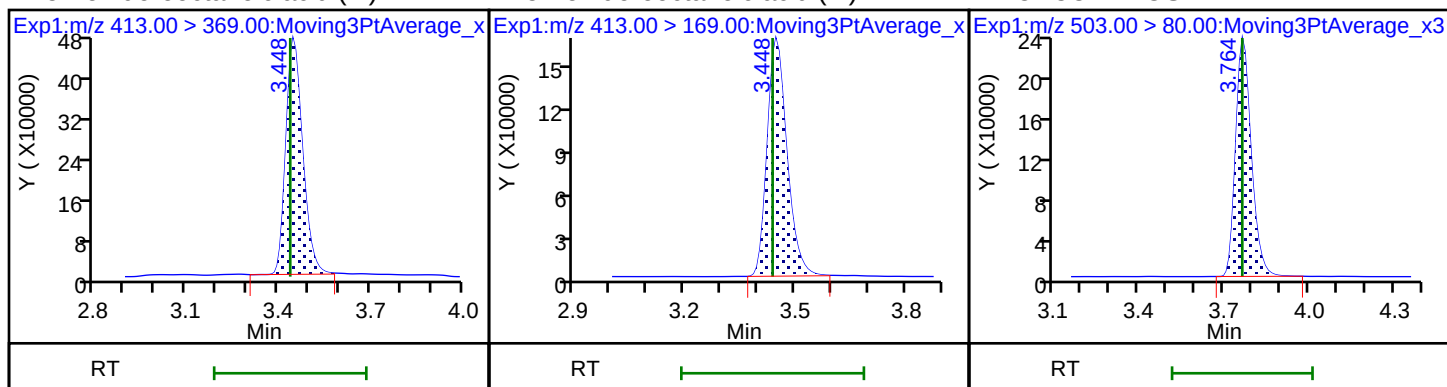
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

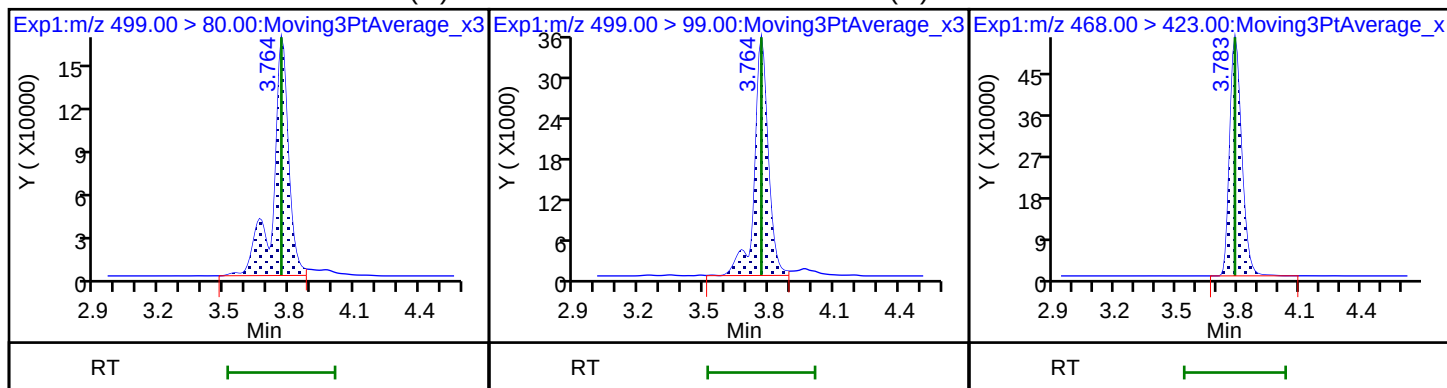
D 18 13C4 PFOS

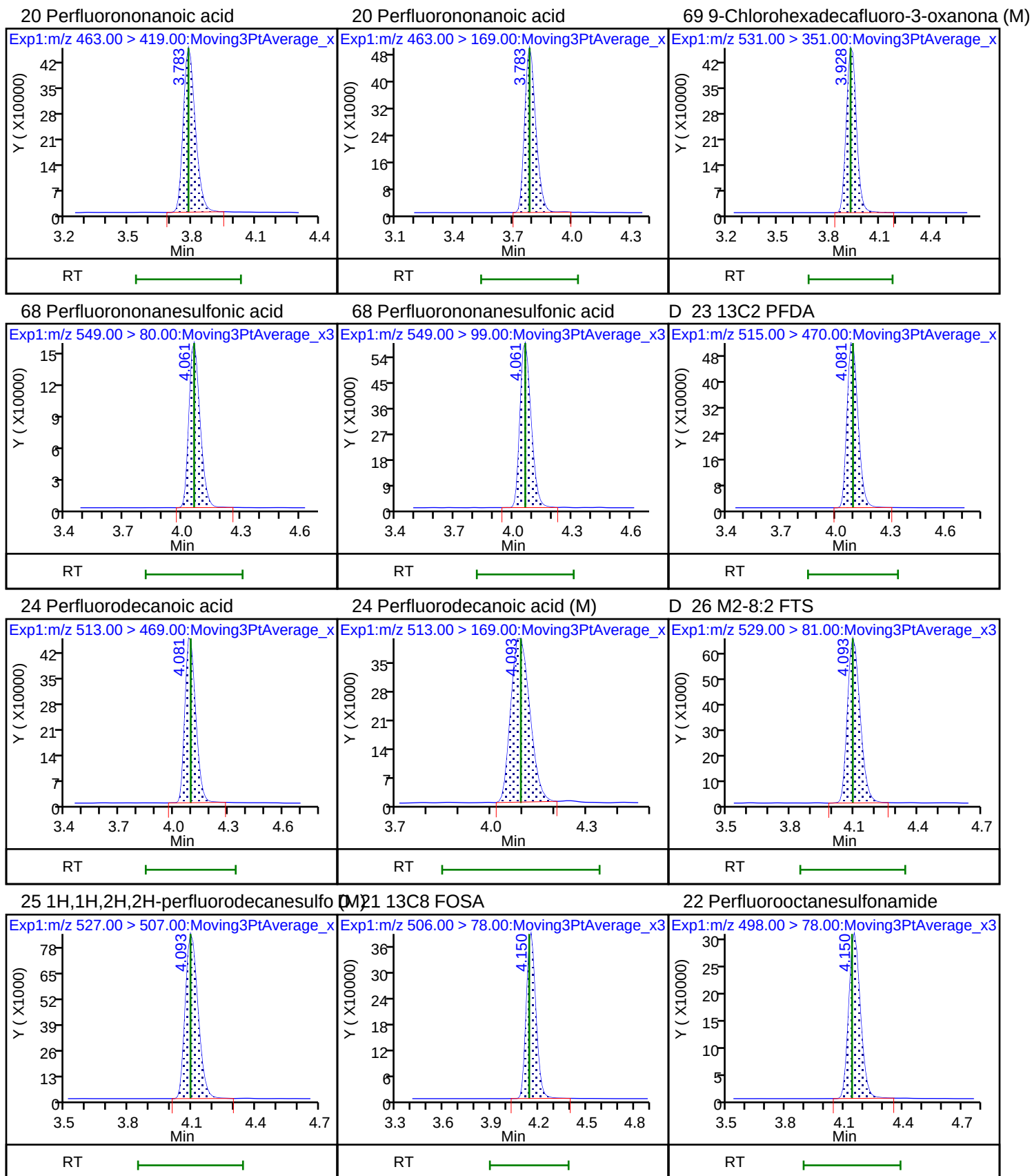


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

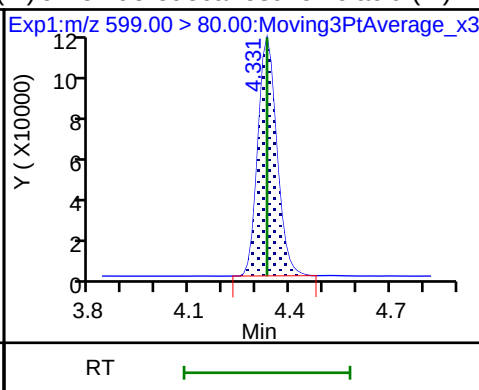
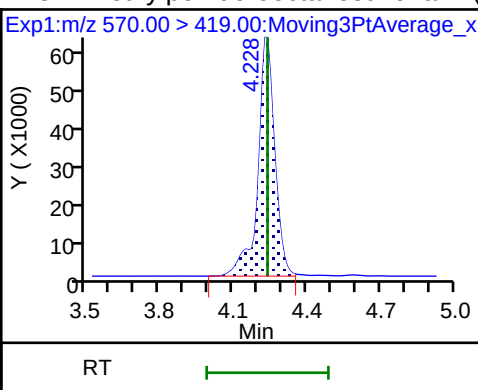
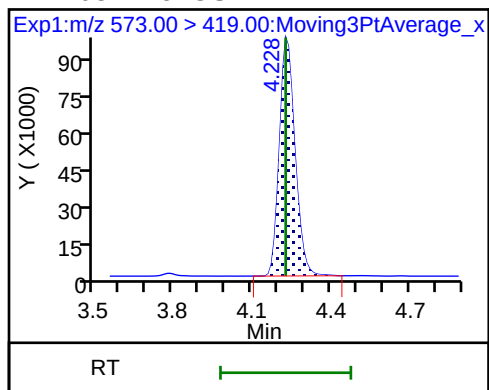




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

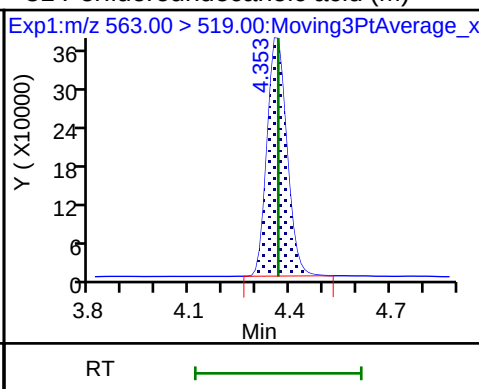
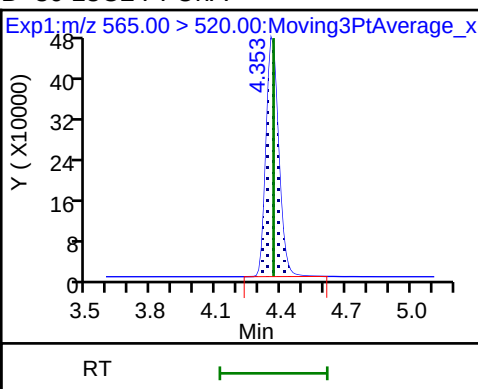
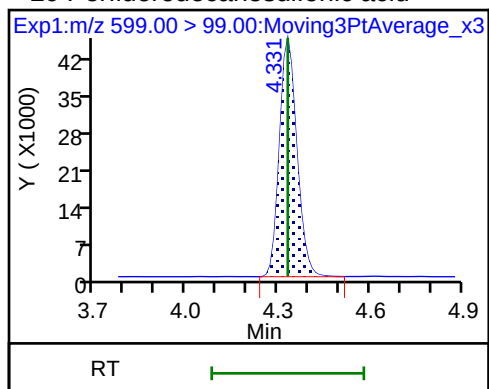
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

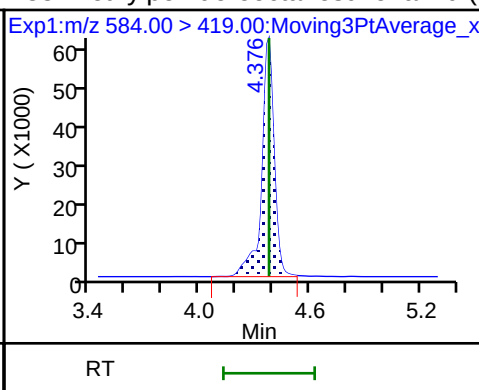
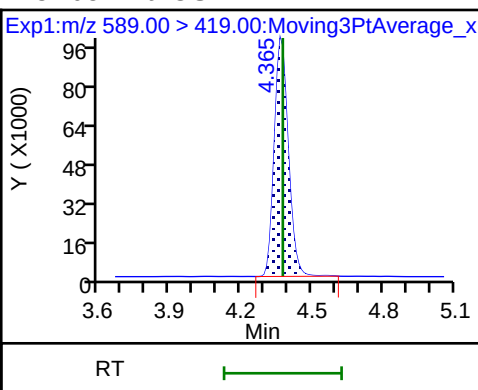
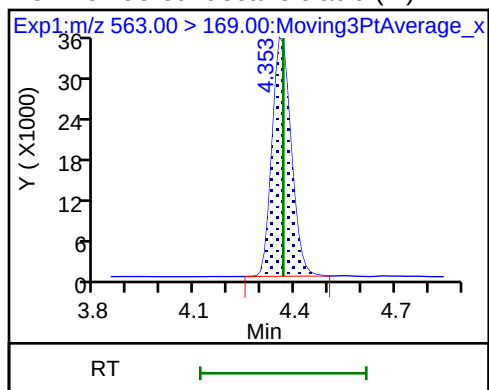
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

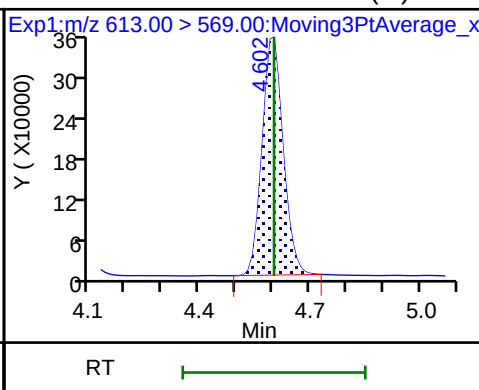
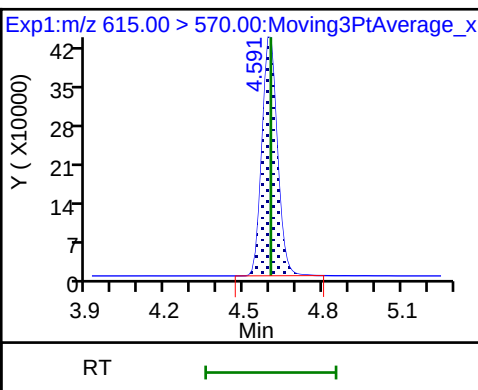
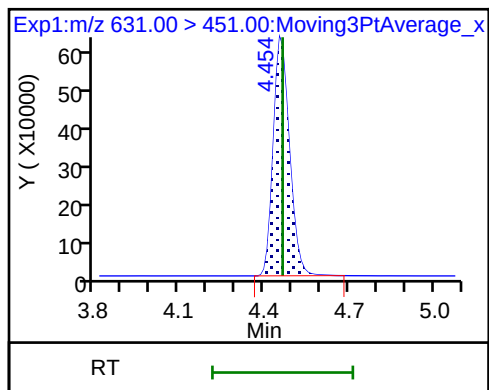
33 N-ethylperfluorooctanesulfonamid (M)



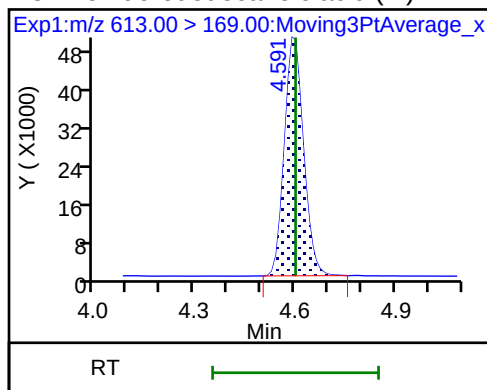
66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

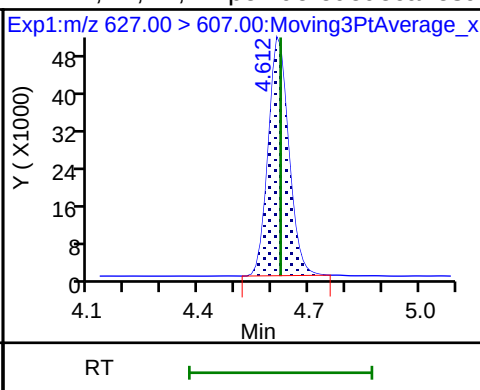
37 Perfluorododecanoic acid (M)



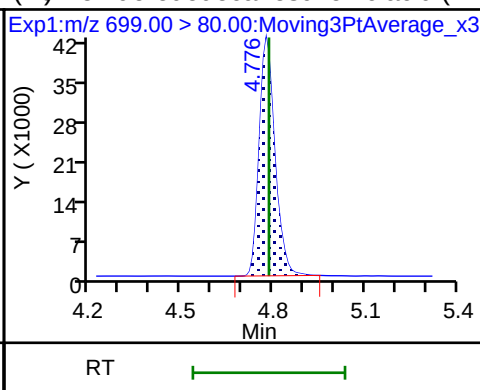
37 Perfluorododecanoic acid (M)



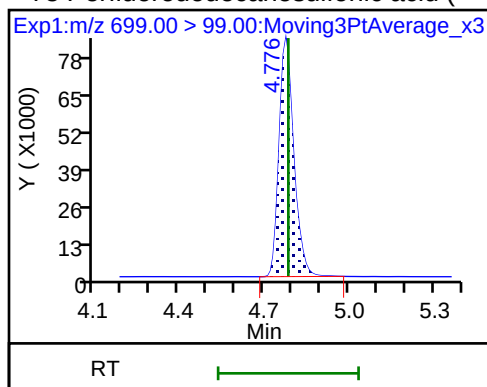
74 1H,1H,2H,2H-perfluorododecanesul (M)



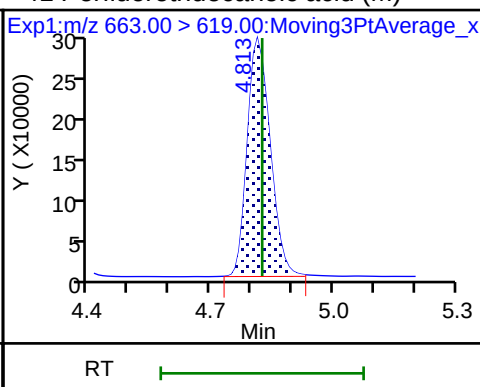
75 Perfluorododecanesulfonic acid (M)



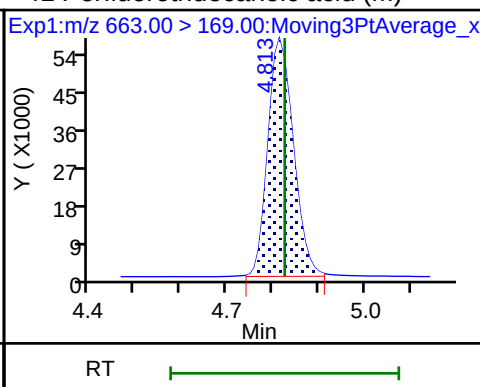
75 Perfluorododecanesulfonic acid (M)



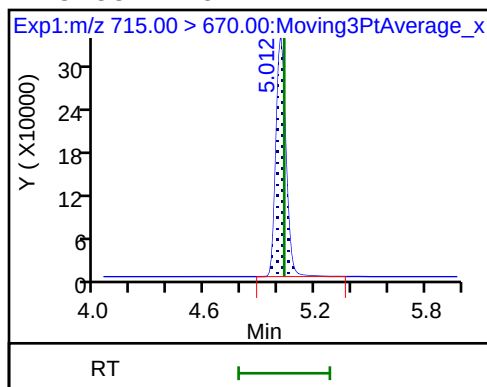
41 Perfluorotridecanoic acid (M)



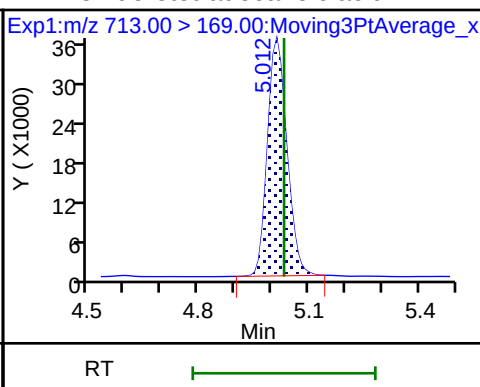
41 Perfluorotridecanoic acid (M)



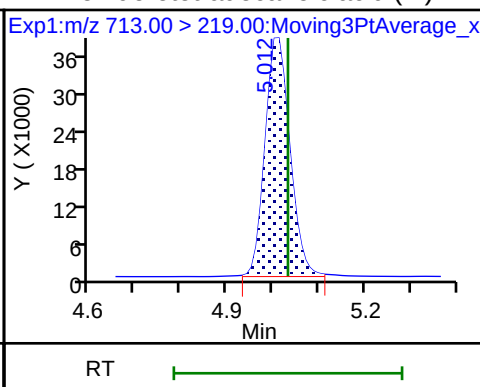
D 43 13C2 PFTeDA



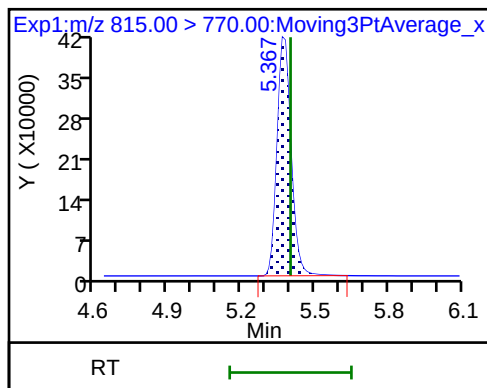
42 Perfluorotetradecanoic acid



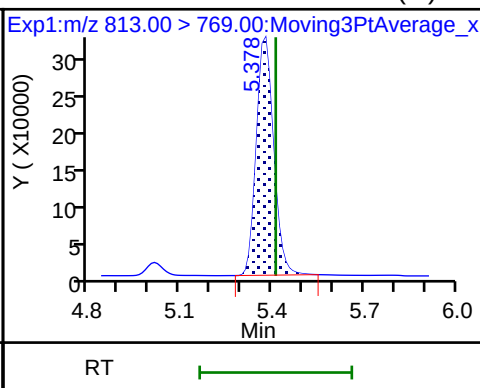
42 Perfluorotetradecanoic acid (M)



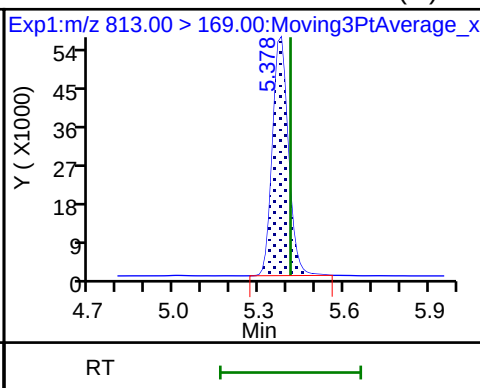
D 44 13C2 PFHxDA



45 Perfluorohexadecanoic acid (M)

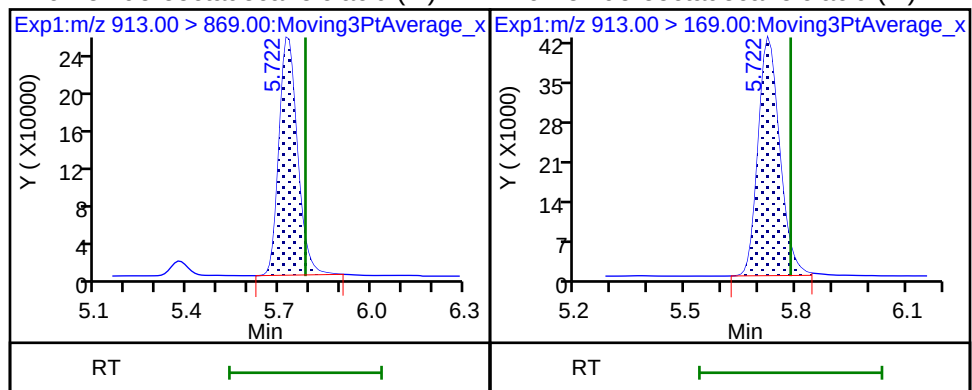


45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

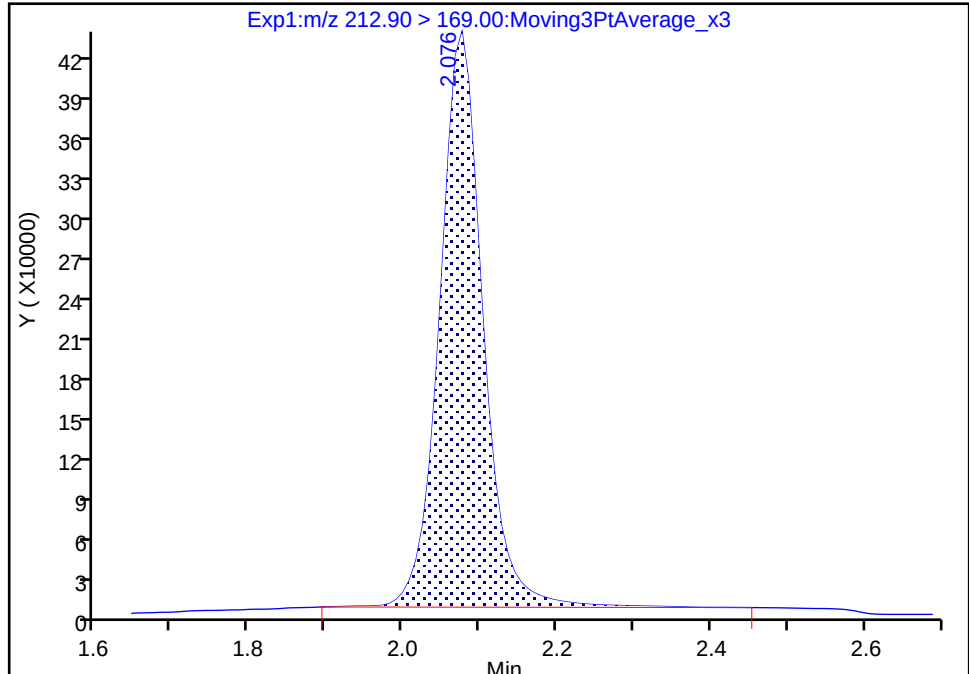
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

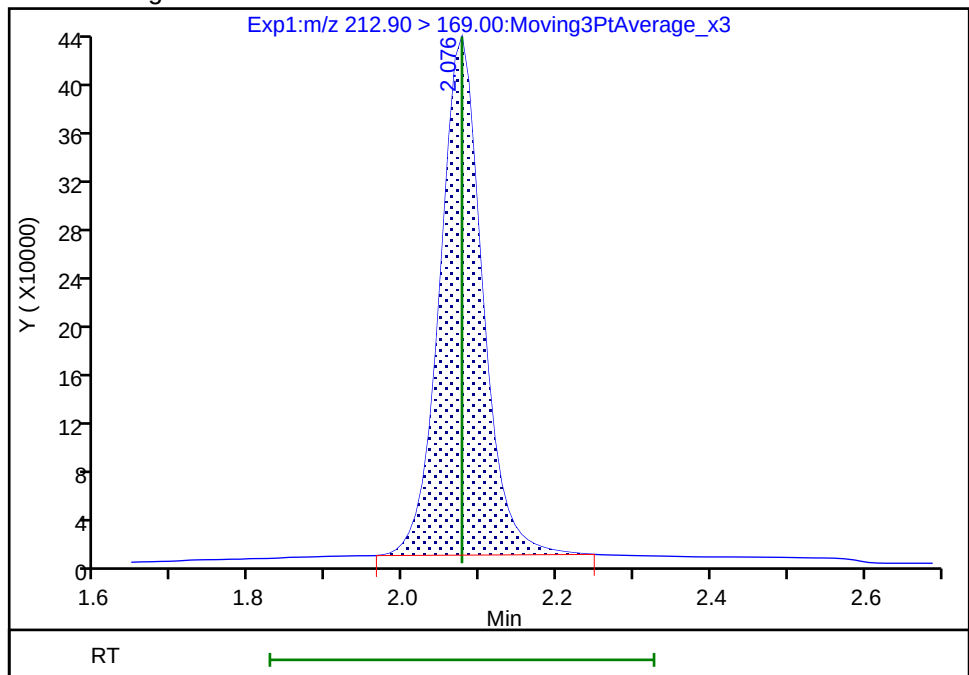
RT: 2.08
Area: 1673901
Amount: 1.011598
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1639202
Amount: 0.990628
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:19:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

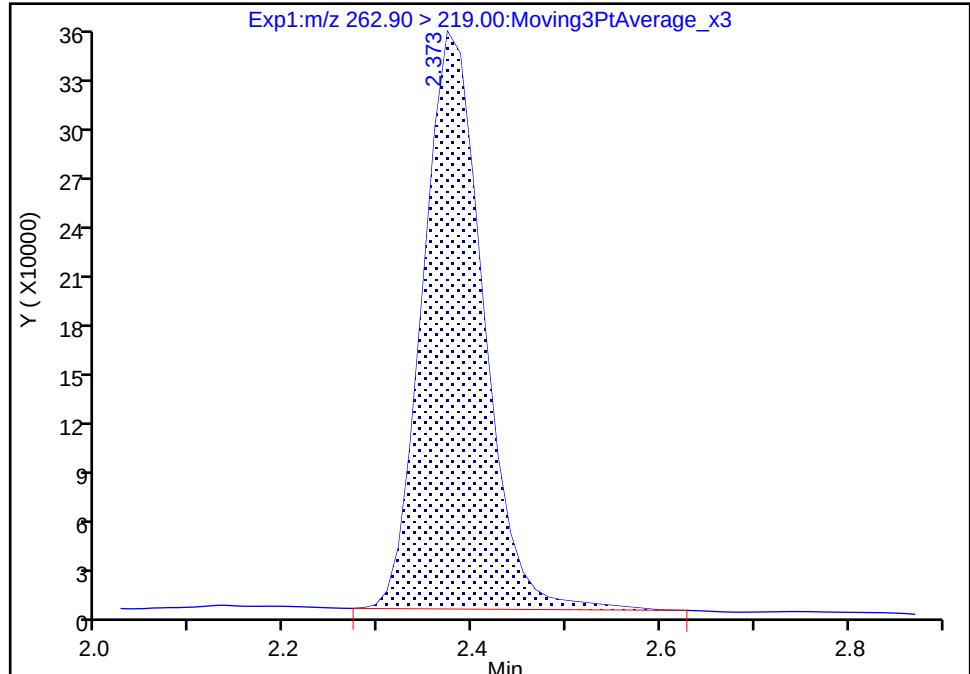
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

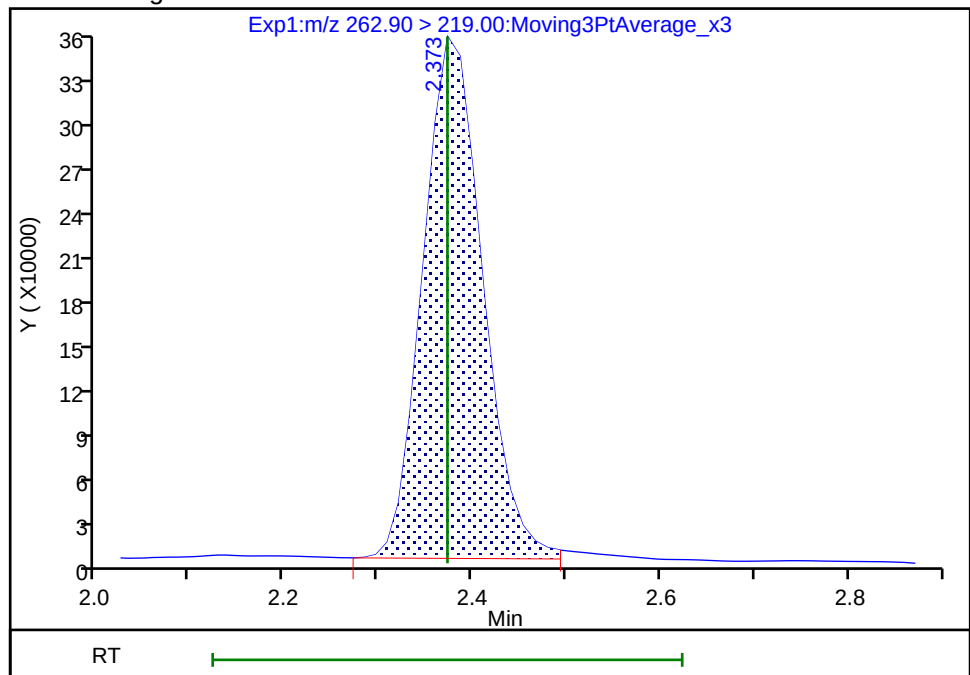
RT: 2.37
Area: 1532989
Amount: 1.050167
Amount Units: ng/ml

Processing Integration Results



RT: 2.37
Area: 1515012
Amount: 1.037852
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:19:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

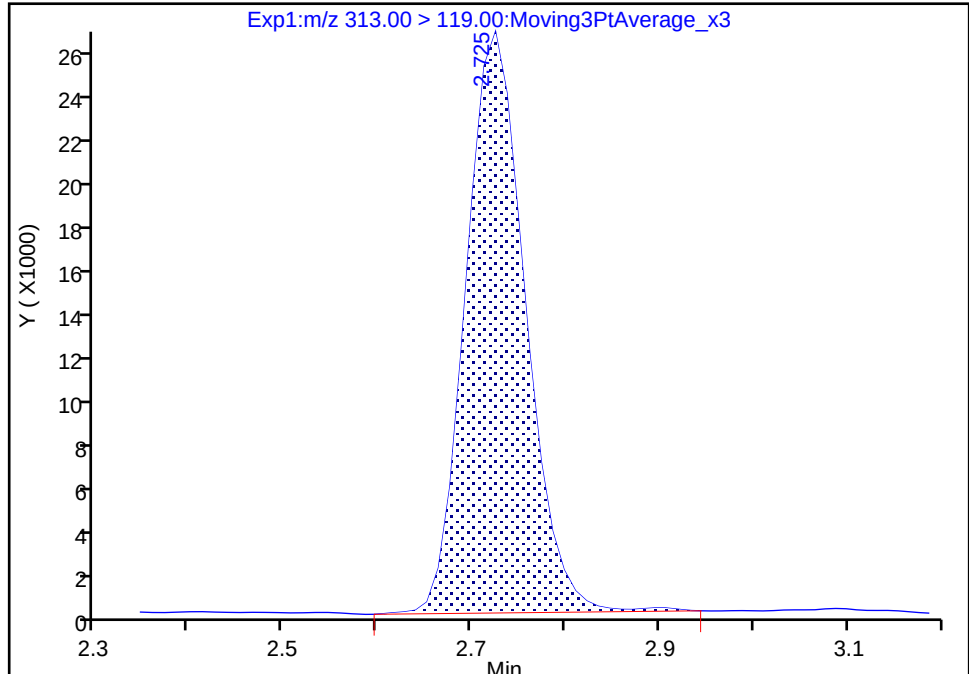
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

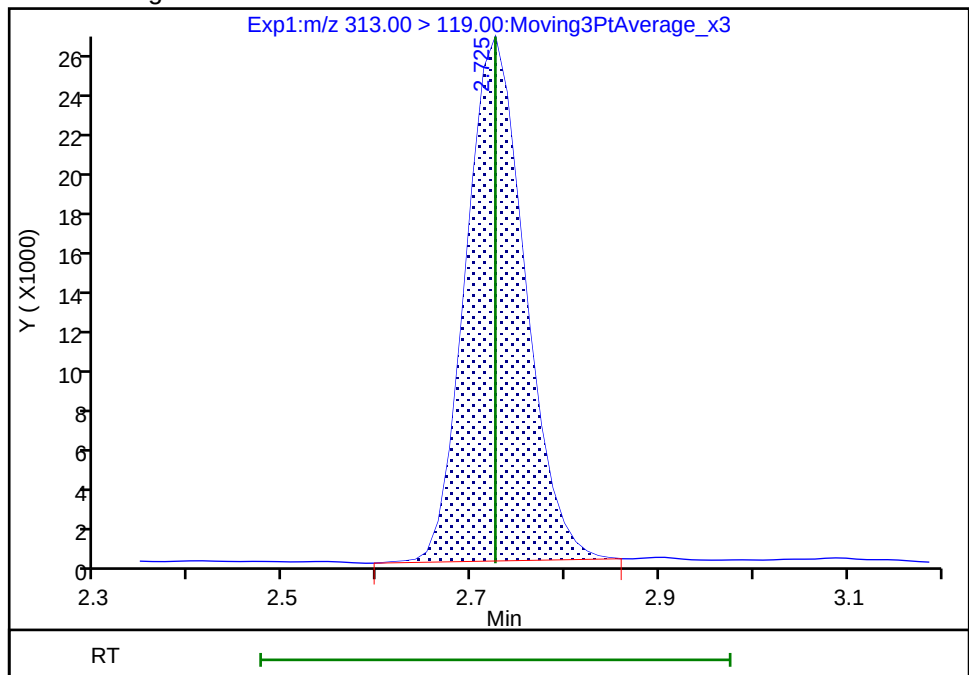
RT: 2.73
Area: 114790
Amount: 0.926490
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 113515
Amount: 0.919061
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

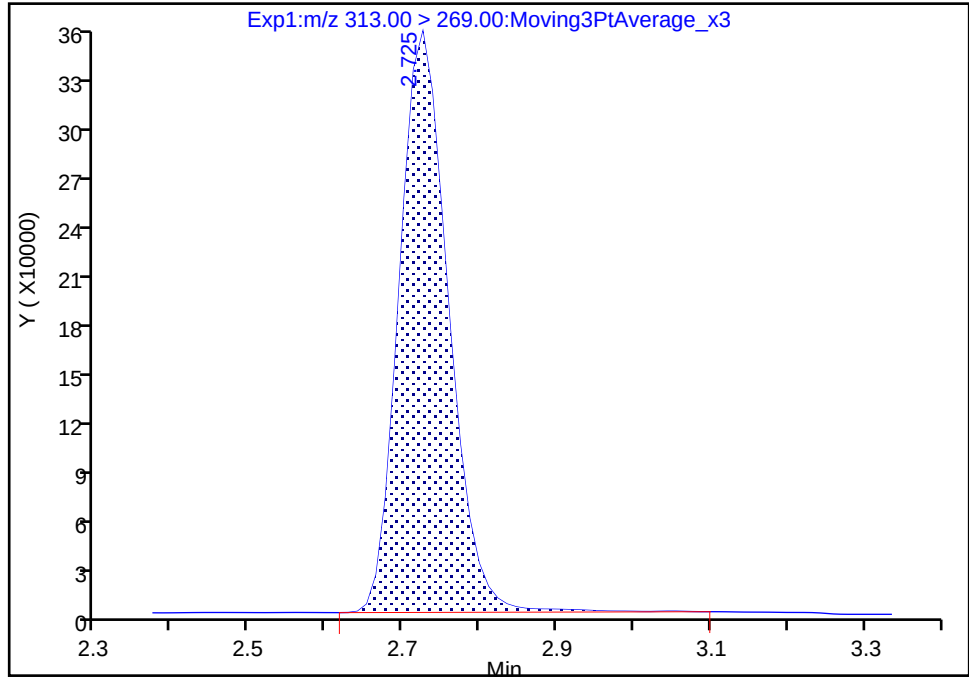
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

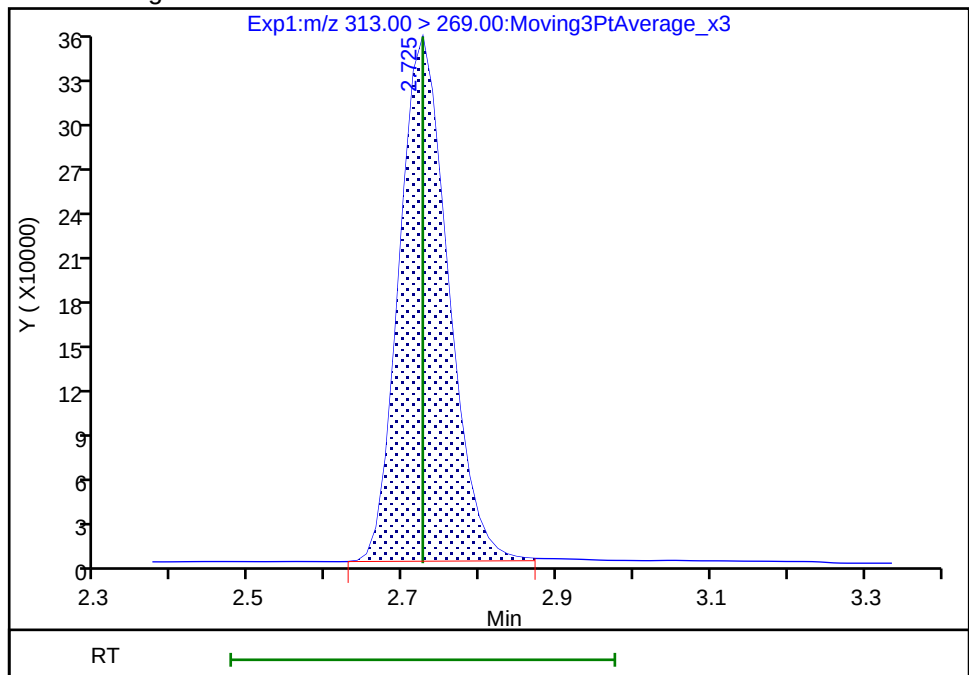
RT: 2.73
Area: 1566784
Amount: 0.926490
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1554221
Amount: 0.919061
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 893 of 97811/21/2022
4:10 PM

Eurofins Burlington

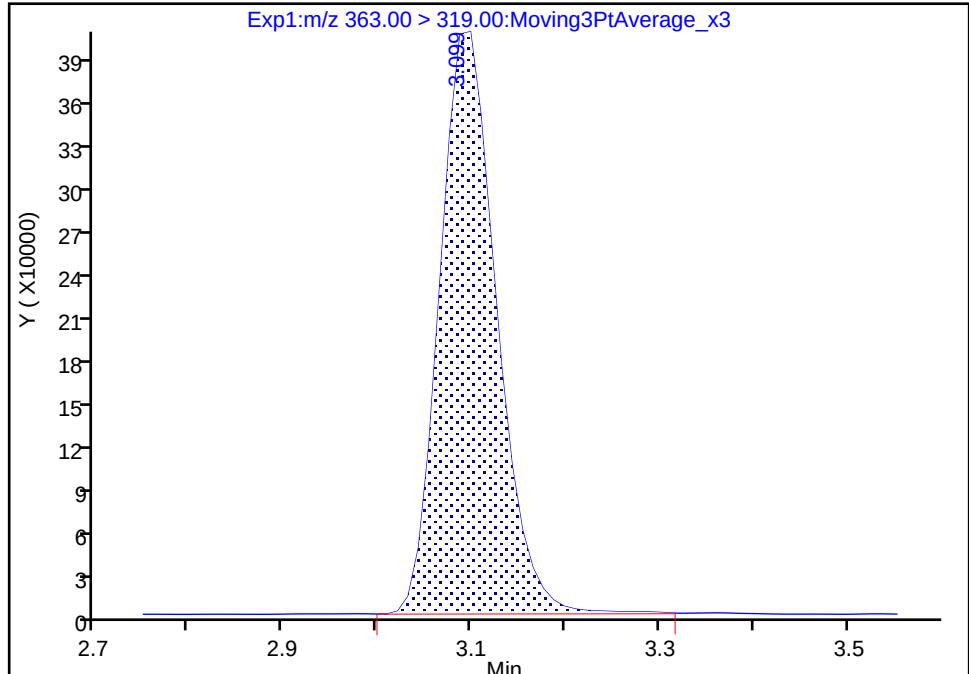
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

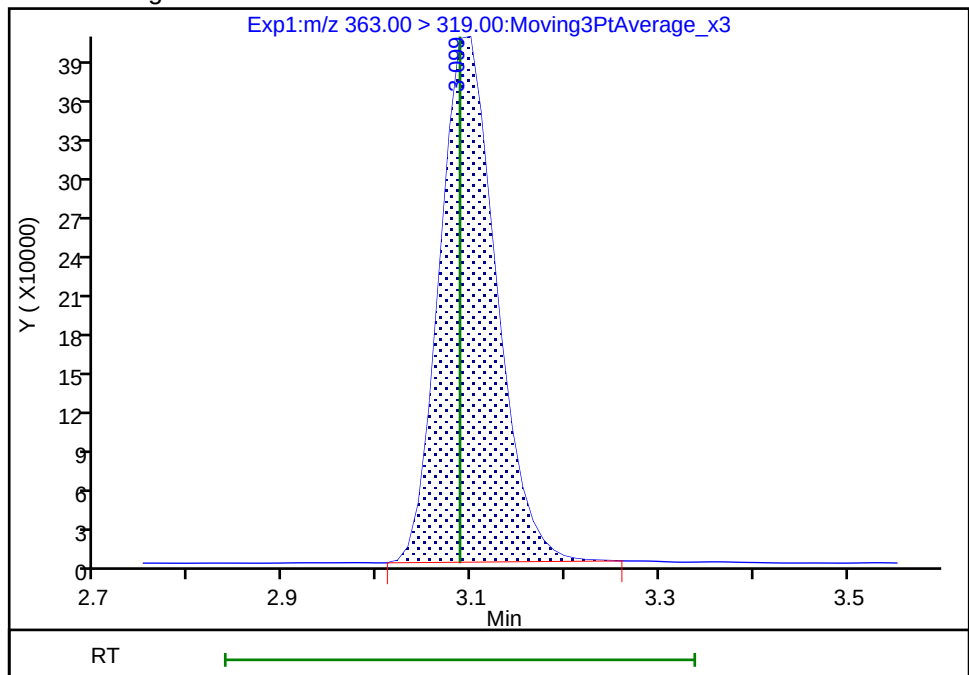
RT: 3.10
Area: 1692572
Amount: 0.966098
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 1676971
Amount: 0.957193
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

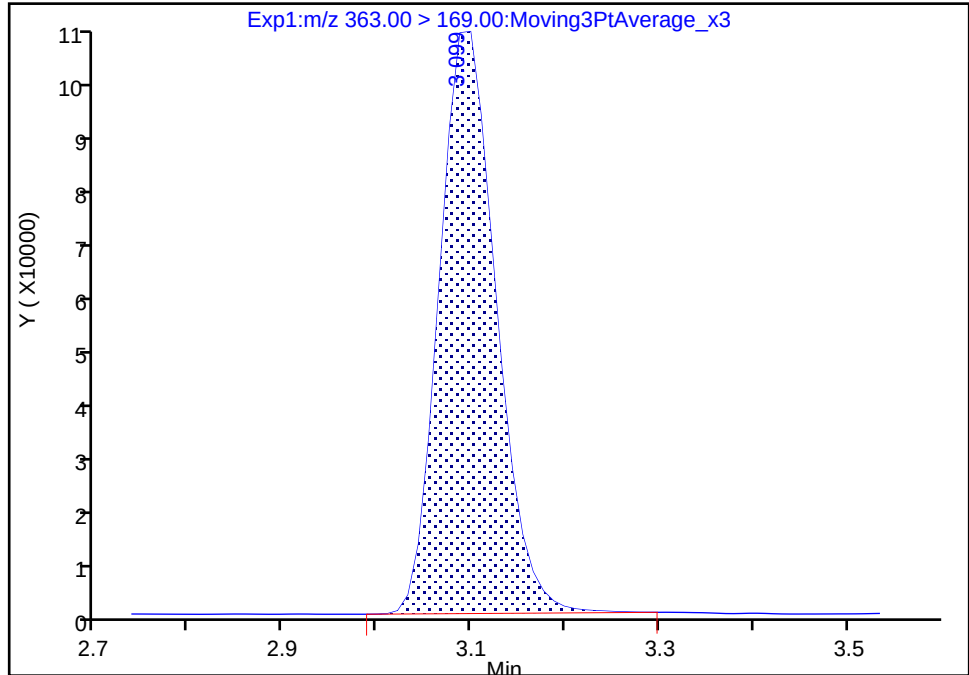
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

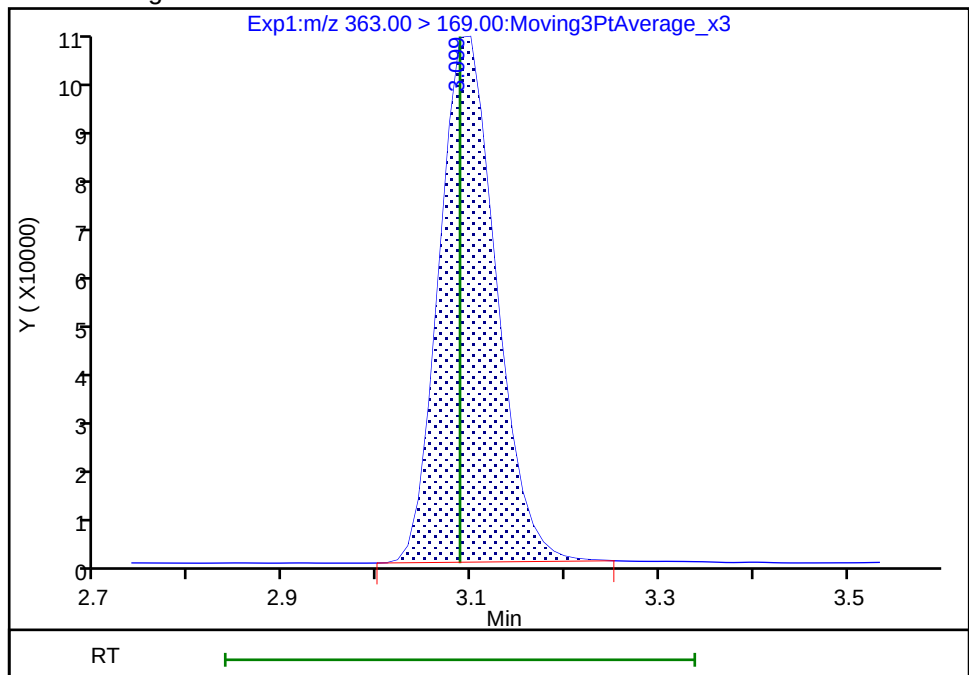
RT: 3.10
Area: 440703
Amount: 0.966098
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 439139
Amount: 0.957193
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 895 of 97811/21/2022
4:10 PM

Eurofins Burlington

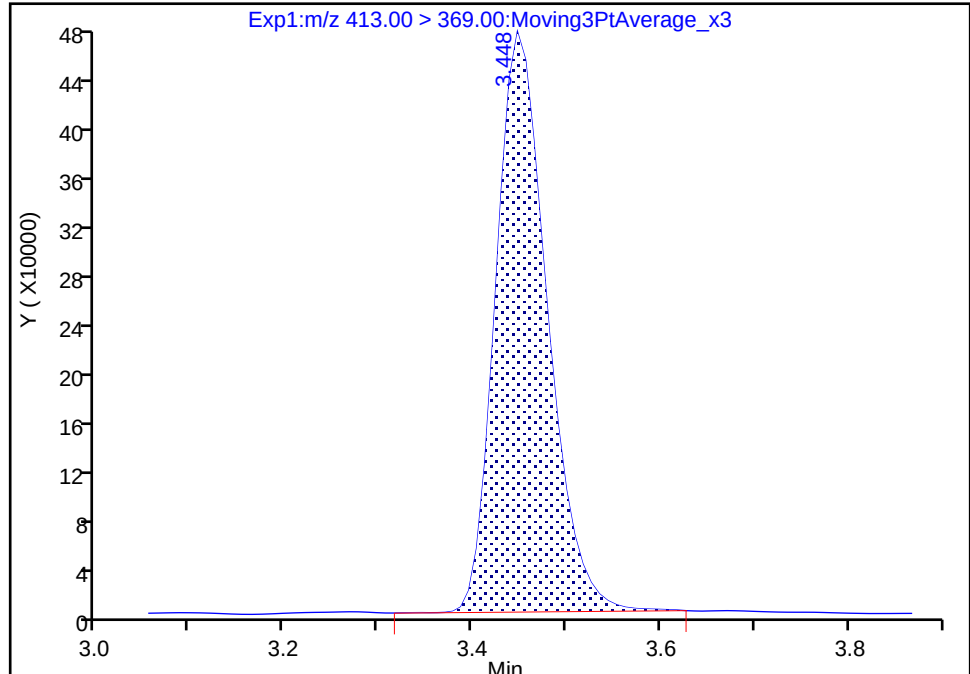
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

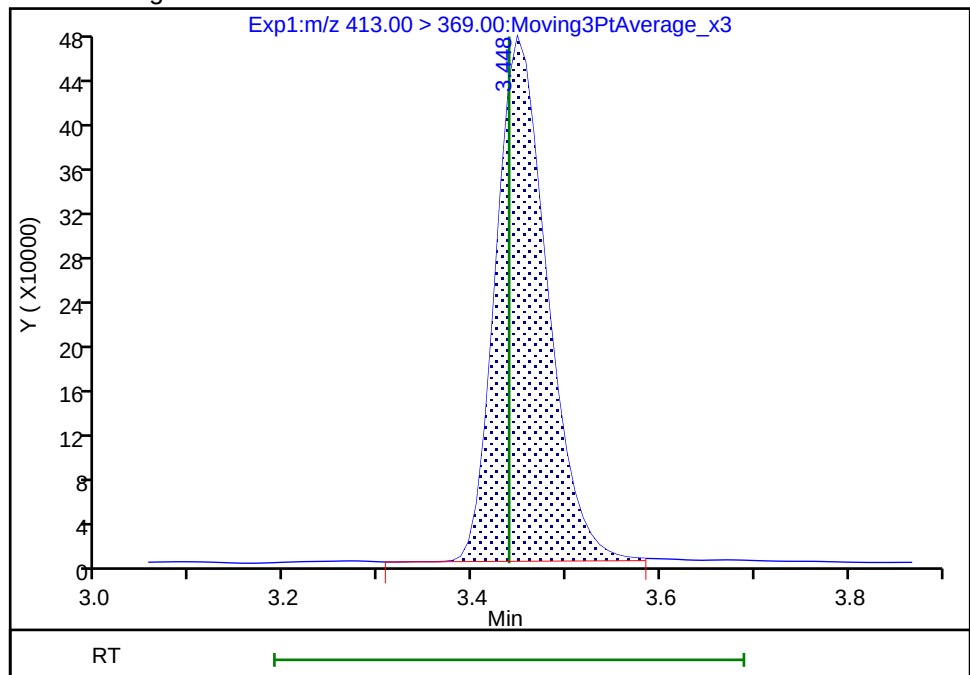
RT: 3.45
Area: 1808358
Amount: 0.971587
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1807707
Amount: 0.971237
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:21:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

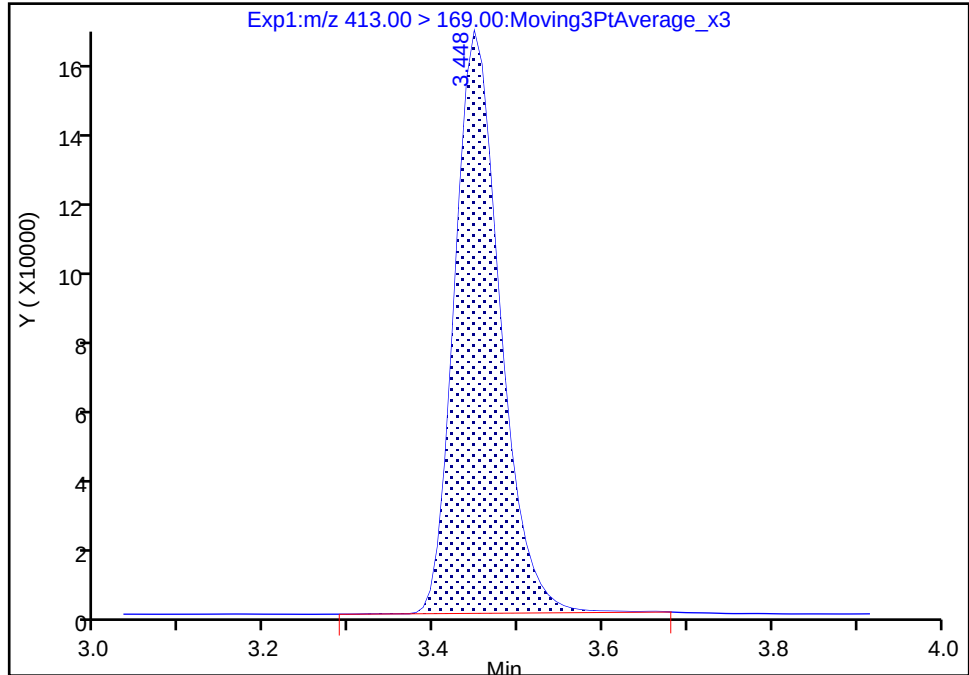
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

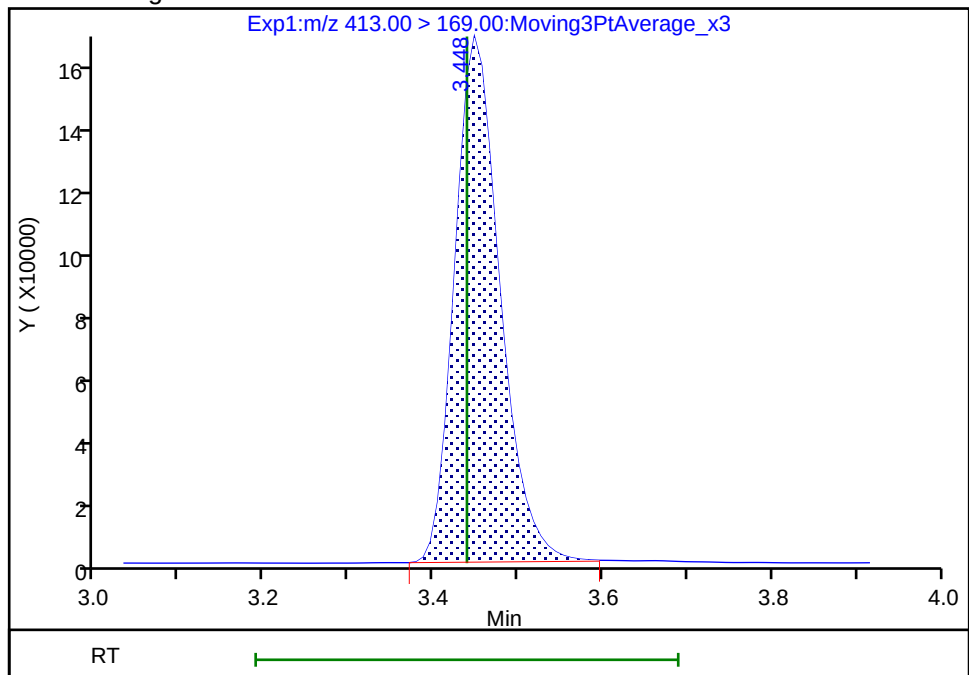
RT: 3.45
Area: 630652
Amount: 0.971587
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 628224
Amount: 0.971237
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:21:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 897 of 97811/21/2022
4:10 PM

Eurofins Burlington

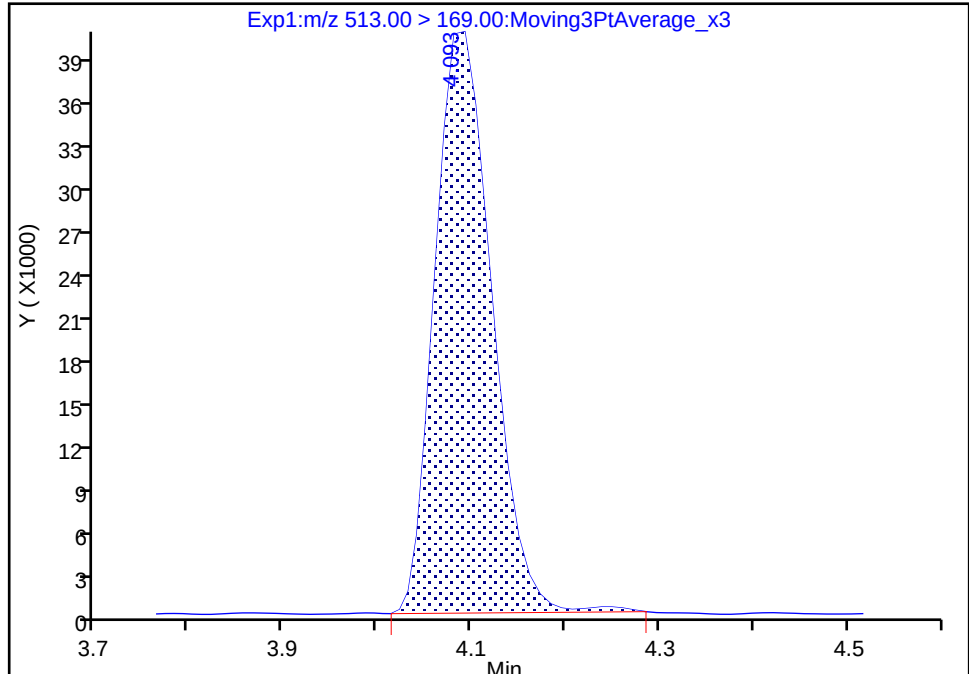
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

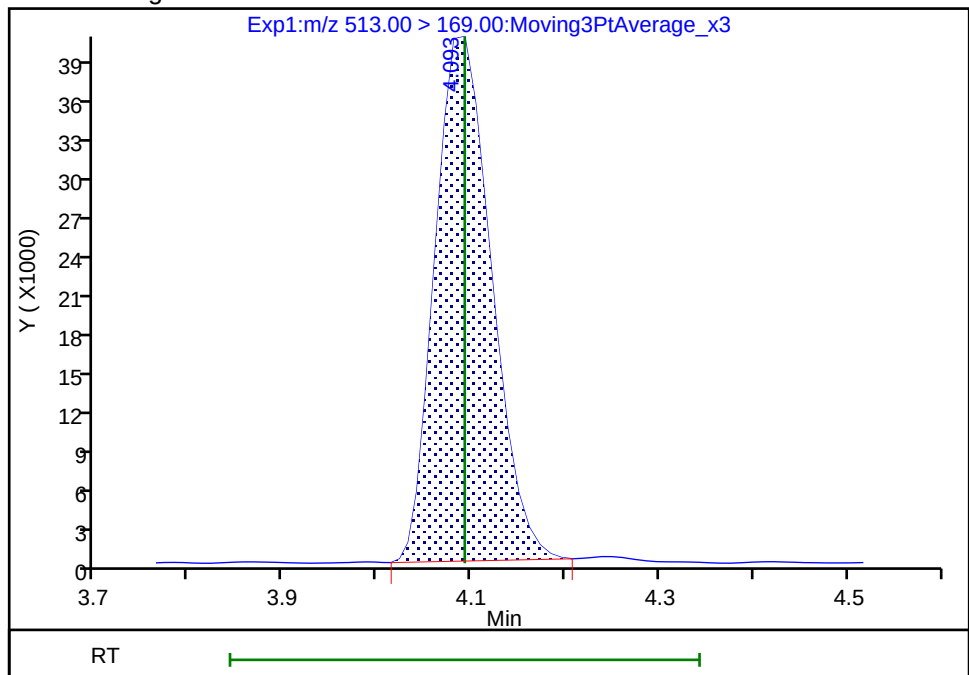
RT: 4.09
Area: 171038
Amount: 1.007180
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 168805
Amount: 1.007180
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d

Injection Date: 16-Nov-2022 20:53:44

Instrument ID: LC812

Lims ID: 460-268915-A-1-B MS

Client ID: 11OC F-1

Operator ID: lc812tech

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

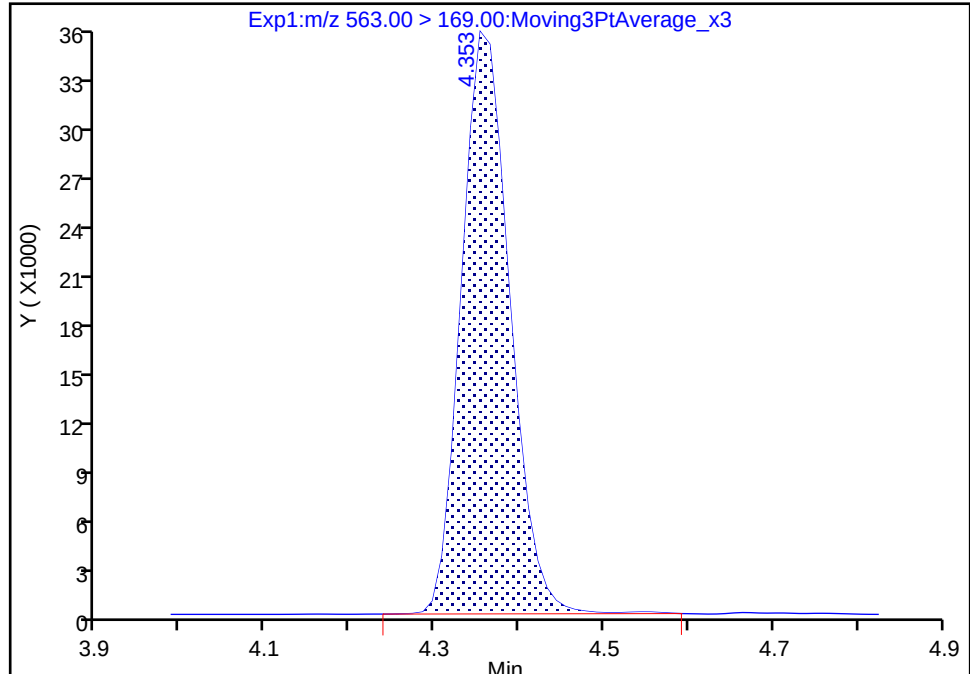
Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

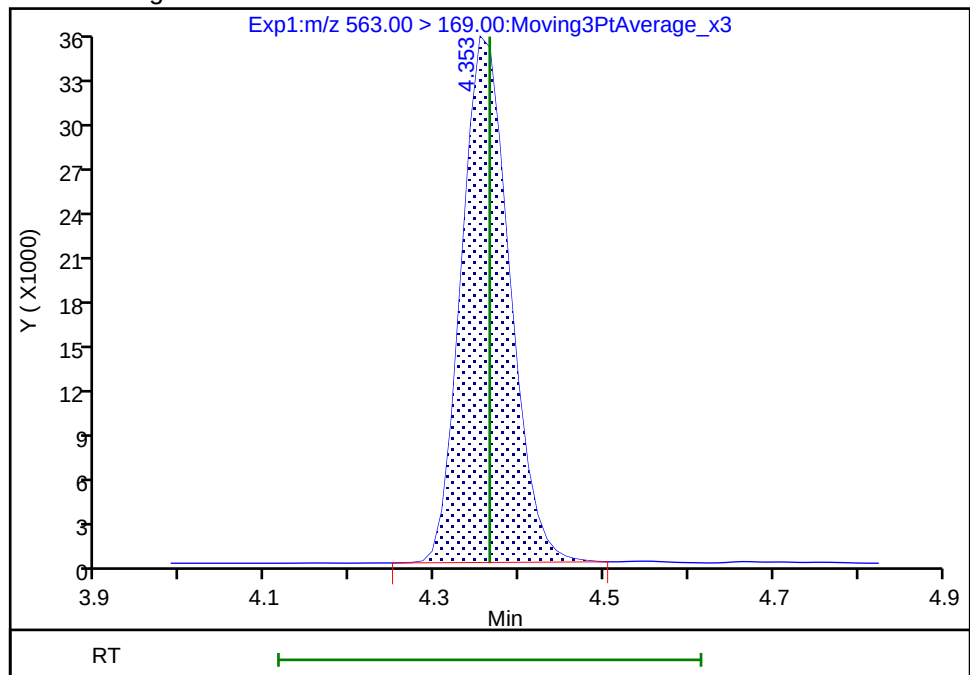
RT: 4.35
Area: 140995
Amount: 0.975312
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 140236
Amount: 0.972232
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

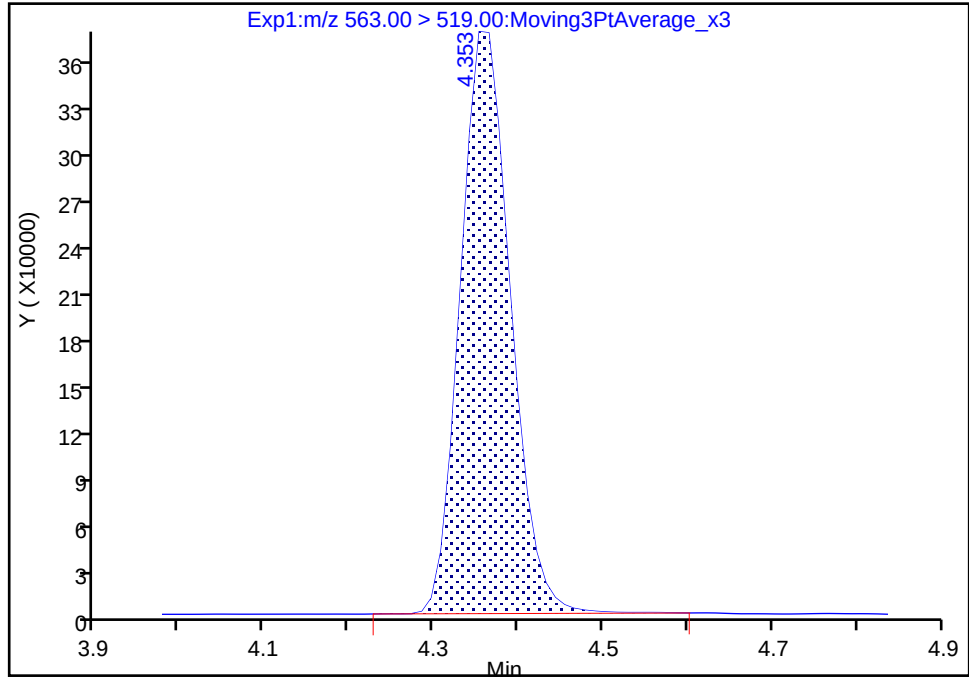
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

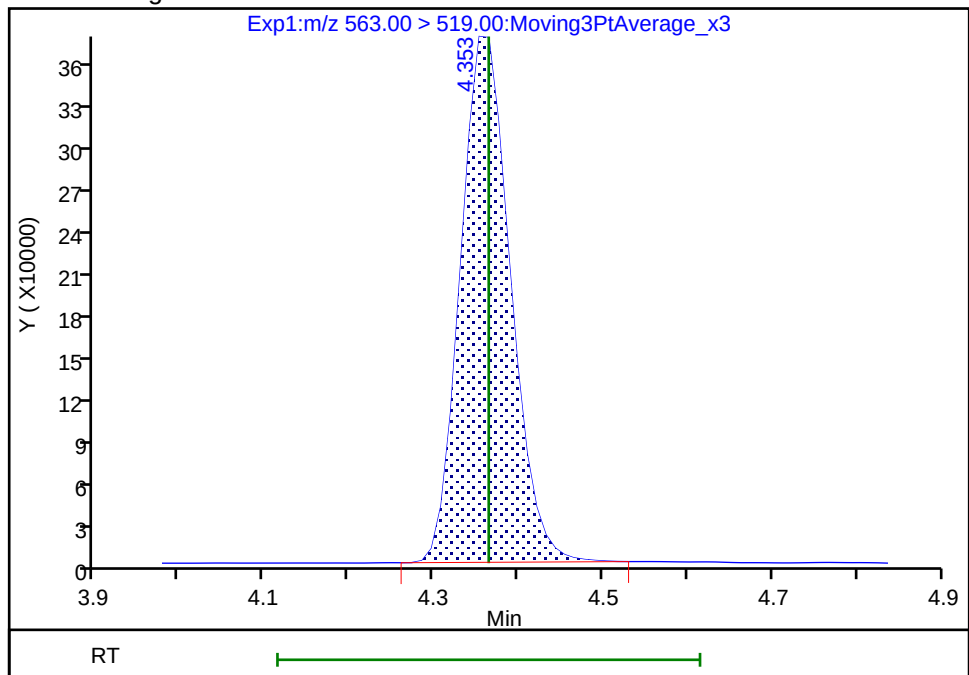
RT: 4.35
Area: 1547745
Amount: 0.975312
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 1542858
Amount: 0.972232
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 900 of 97811/21/2022
4:10 PM

Eurofins Burlington

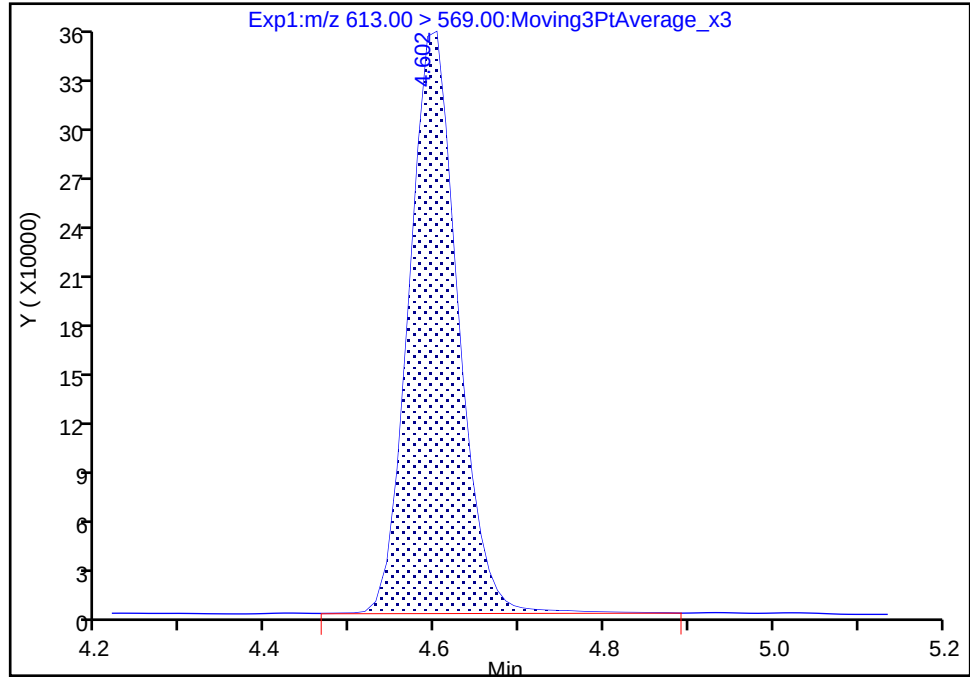
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

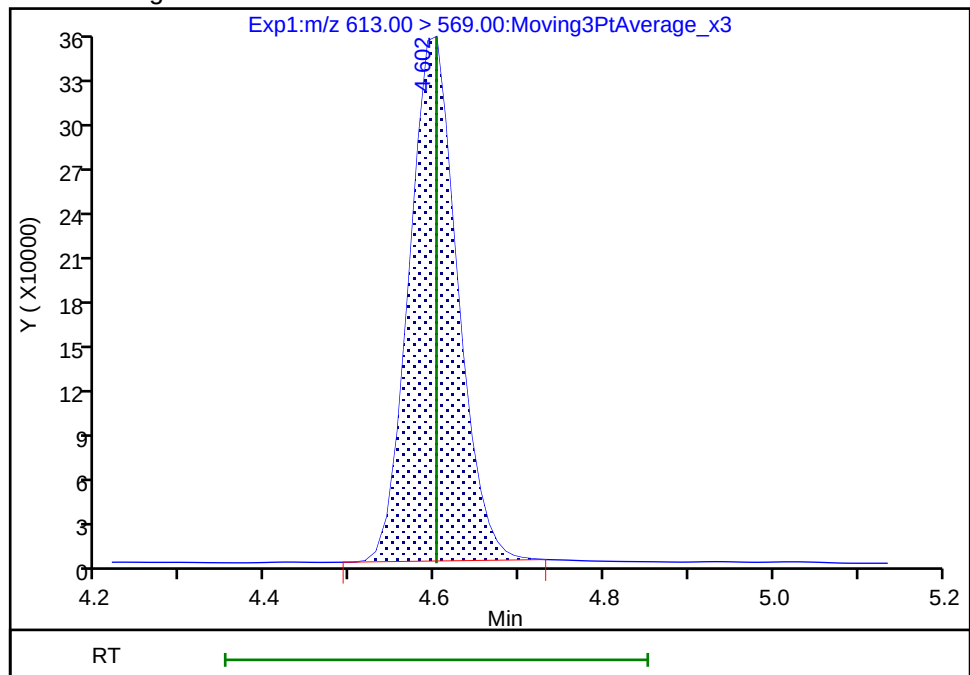
RT: 4.60
Area: 1424920
Amount: 0.940320
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 1401576
Amount: 0.924915
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

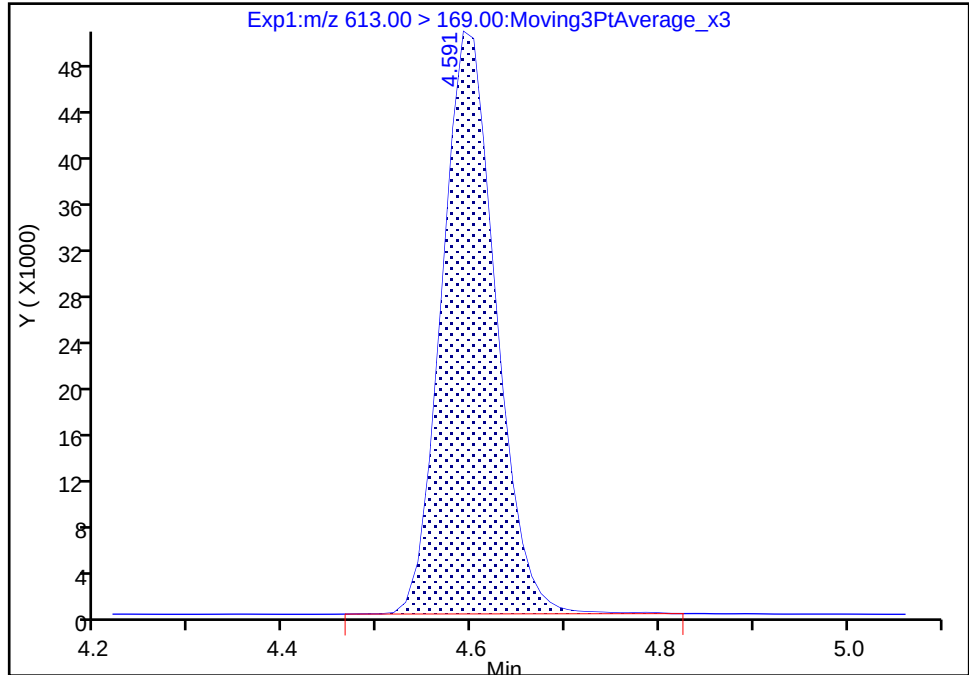
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

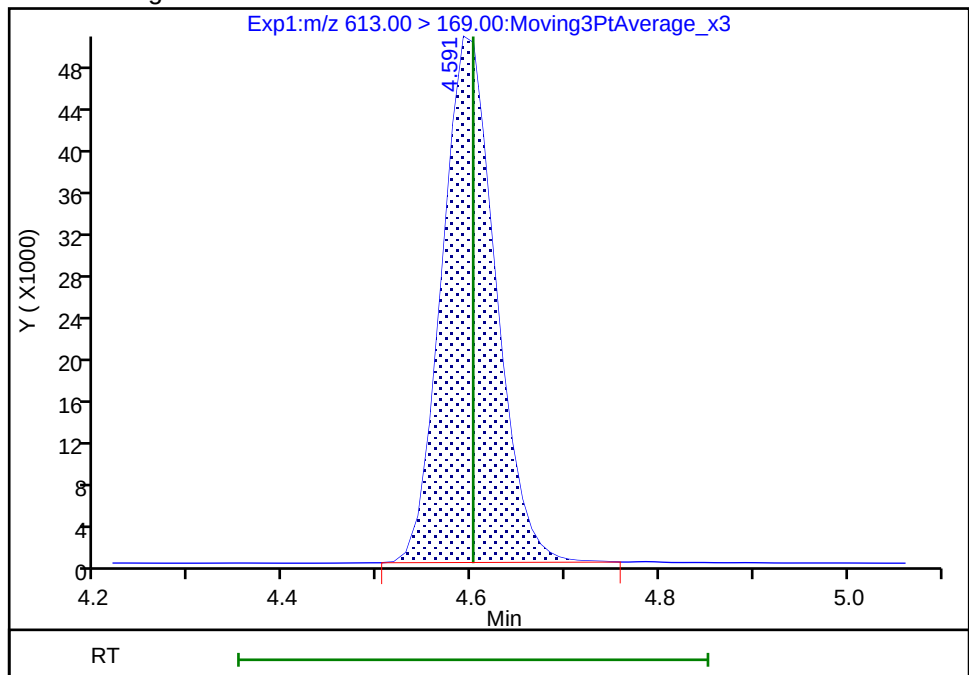
RT: 4.59
Area: 199223
Amount: 0.940320
Amount Units: ng/ml

Processing Integration Results



RT: 4.59
Area: 198425
Amount: 0.924915
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 902 of 97811/21/2022
4:10 PM

Eurofins Burlington

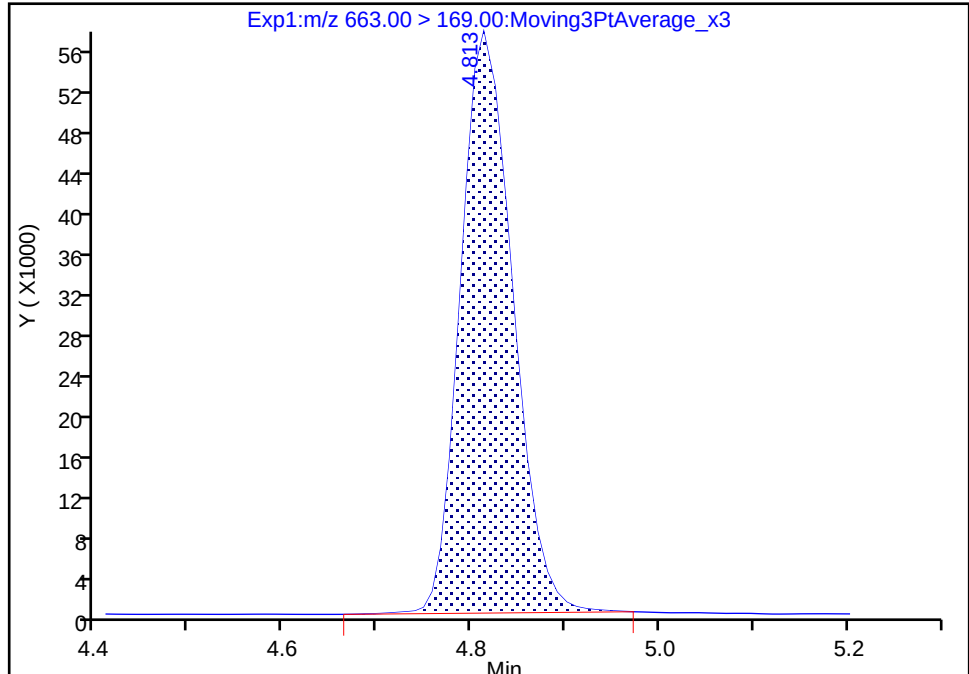
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

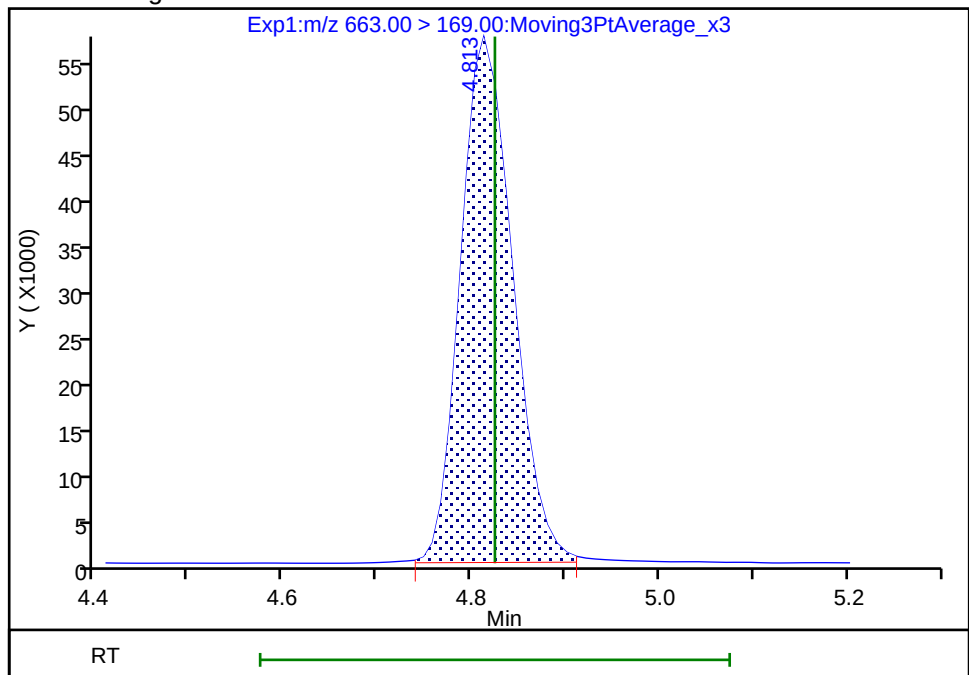
RT: 4.81
Area: 220180
Amount: 0.842639
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 219657
Amount: 0.839249
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:23:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

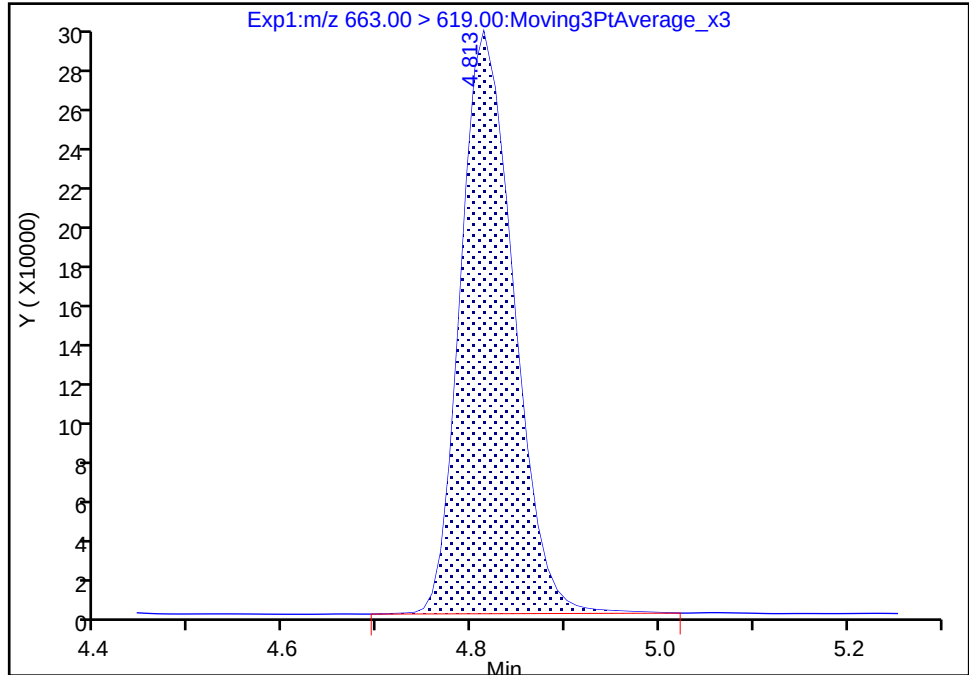
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

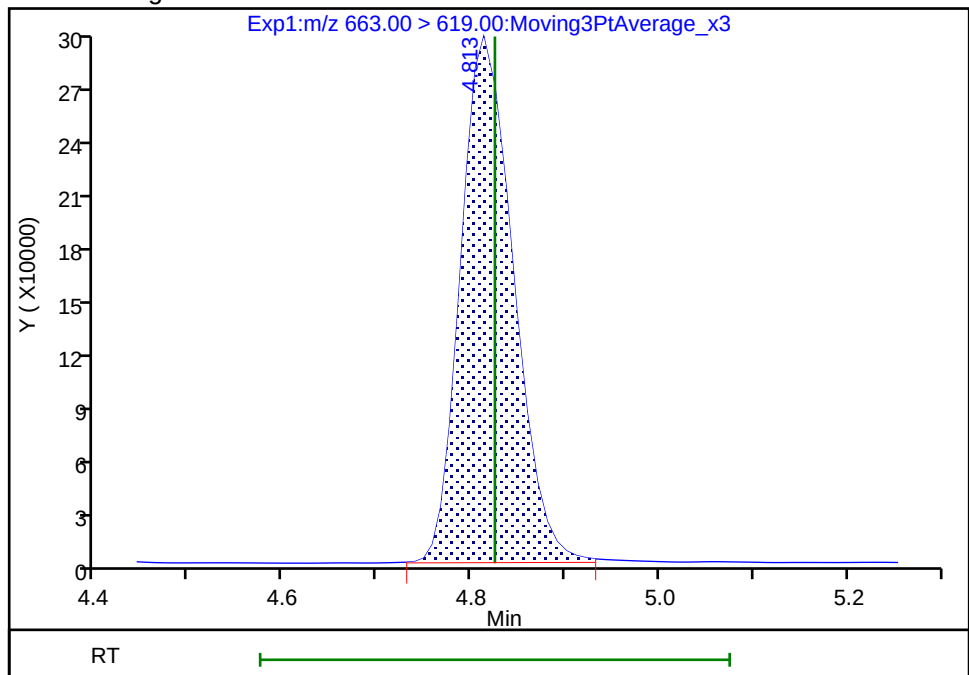
RT: 4.81
Area: 1170264
Amount: 0.842639
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1165556
Amount: 0.839249
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:23:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 904 of 97811/21/2022
4:10 PM

Eurofins Burlington

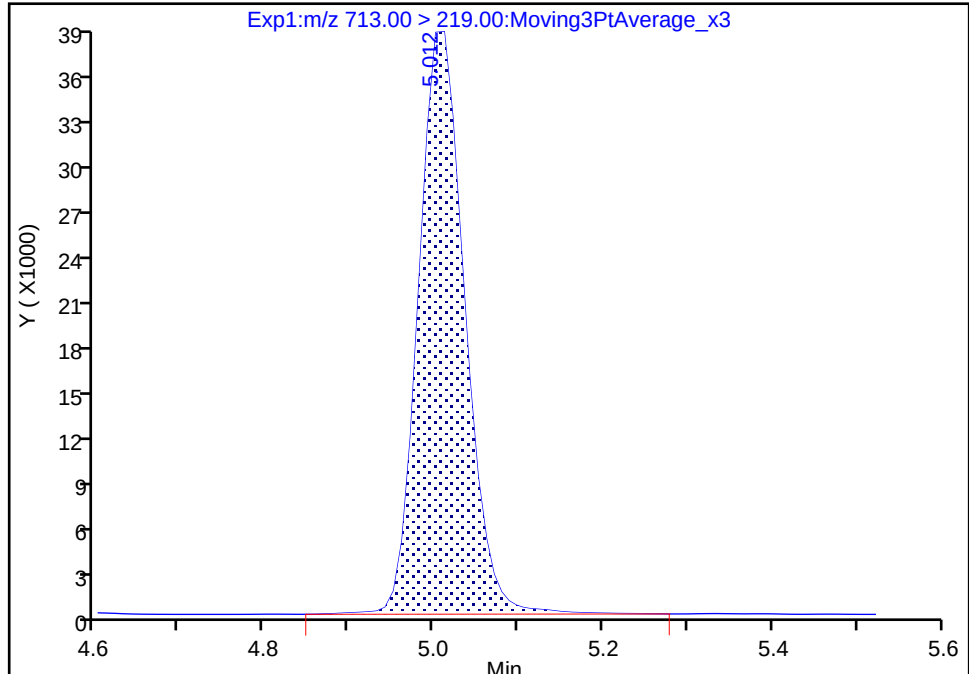
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

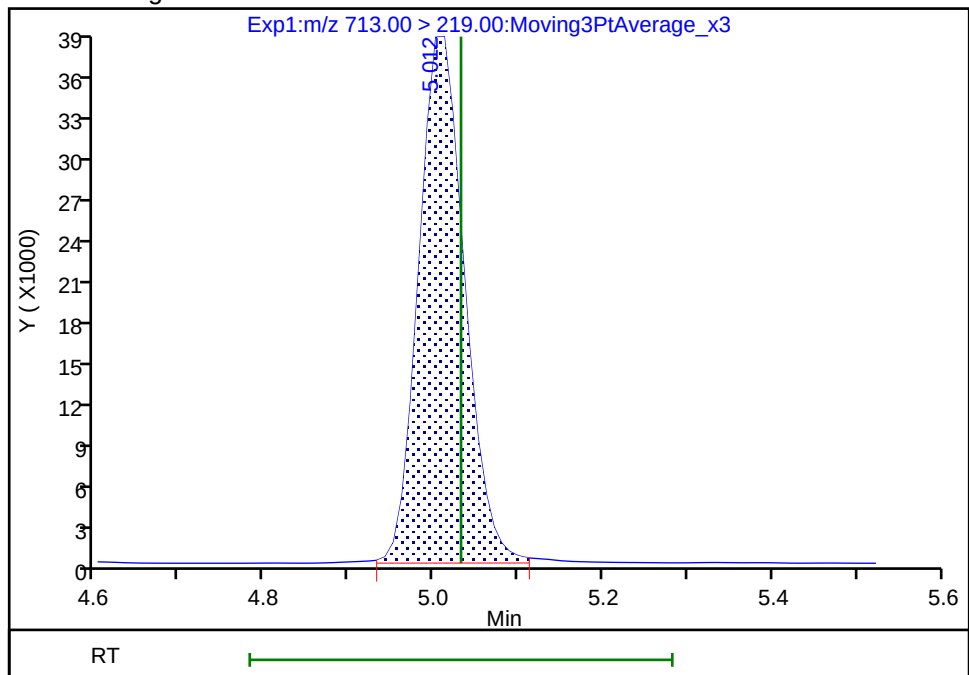
RT: 5.01
Area: 144780
Amount: 0.876413
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 143426
Amount: 0.876413
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:23:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

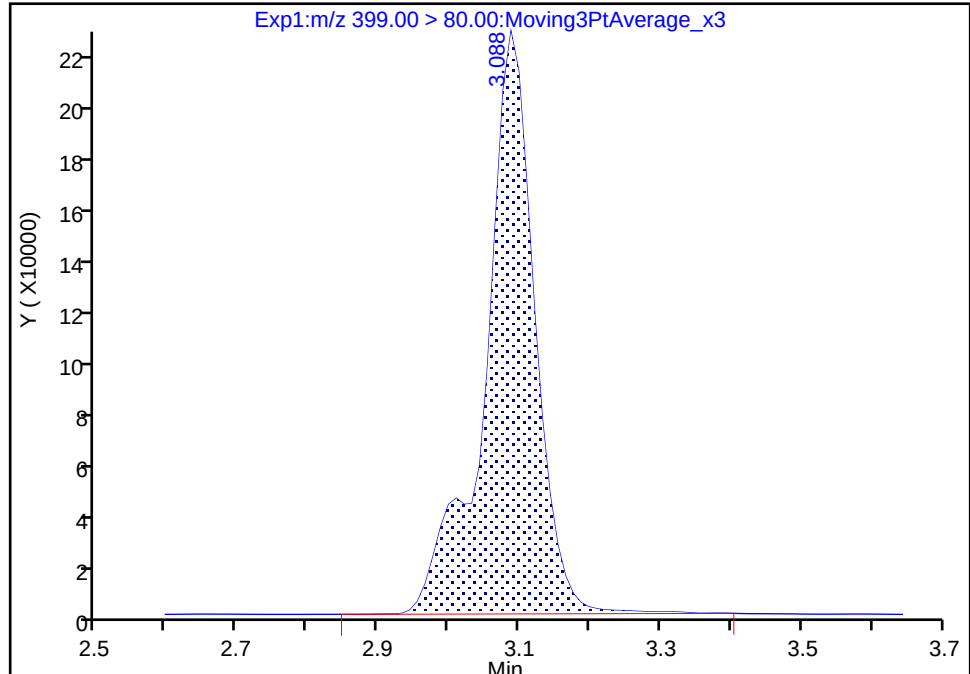
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

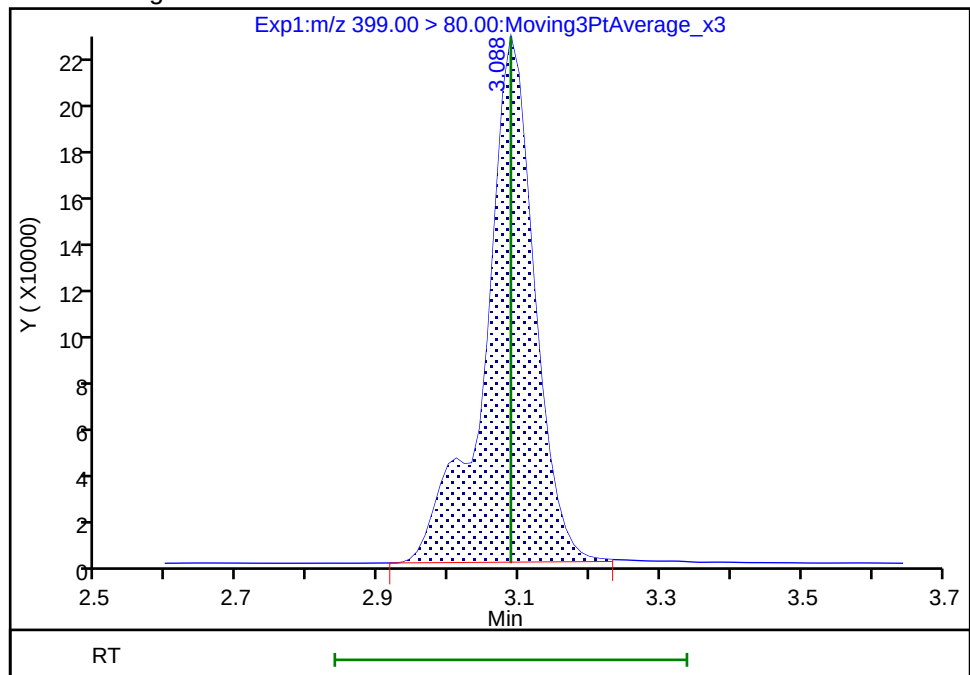
RT: 3.09
Area: 1090977
Amount: 0.864077
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1080419
Amount: 0.855715
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

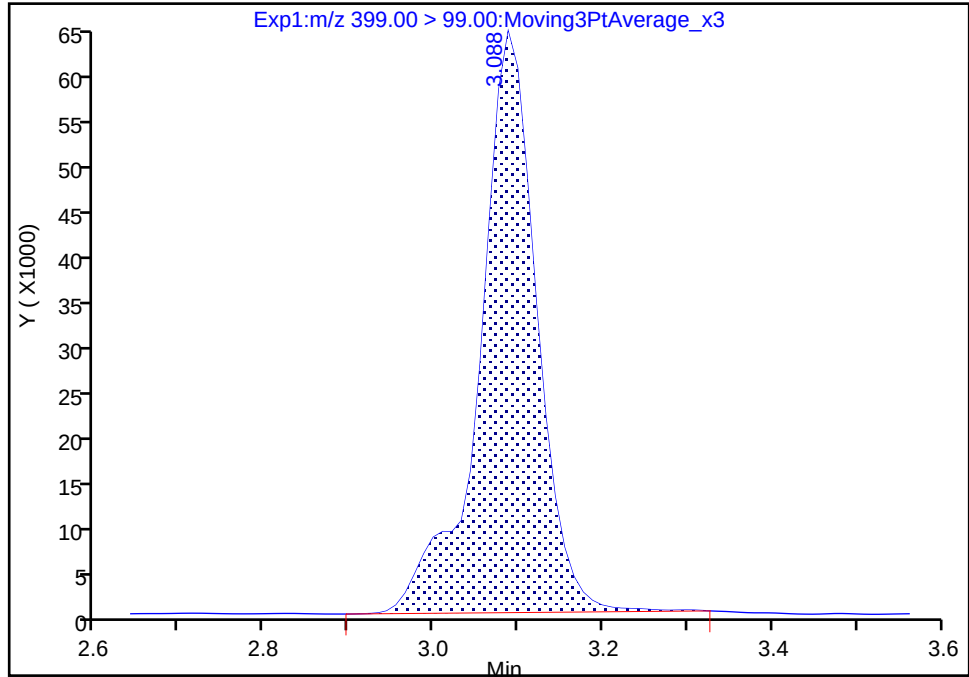
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

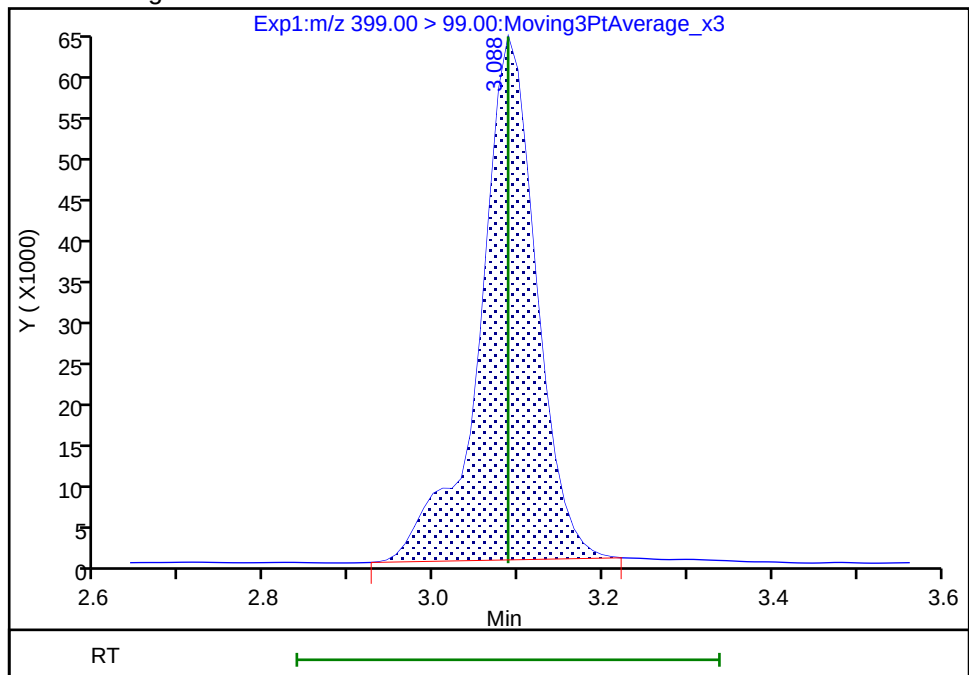
RT: 3.09
Area: 300226
Amount: 0.864077
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 295626
Amount: 0.855715
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 907 of 97811/21/2022
4:10 PM

Eurofins Burlington

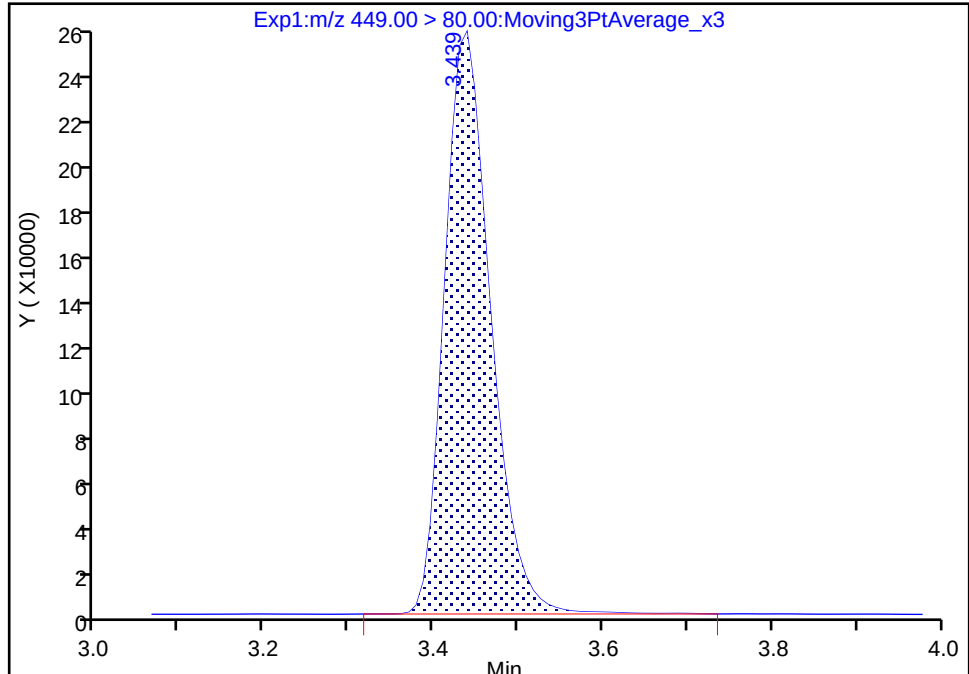
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

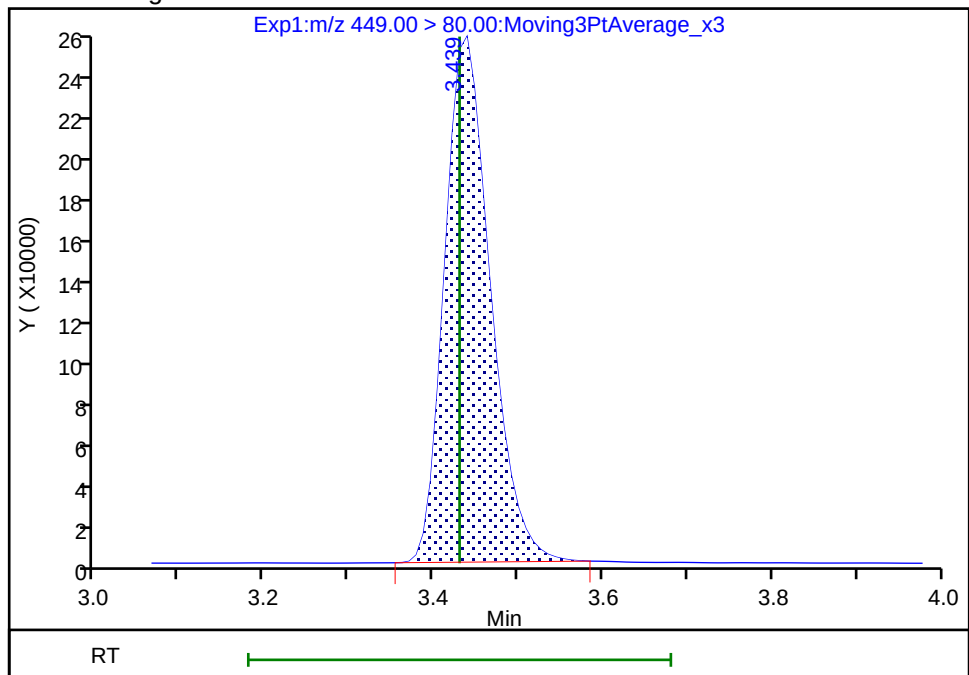
RT: 3.44
Area: 961547
Amount: 0.930789
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 952100
Amount: 0.921644
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

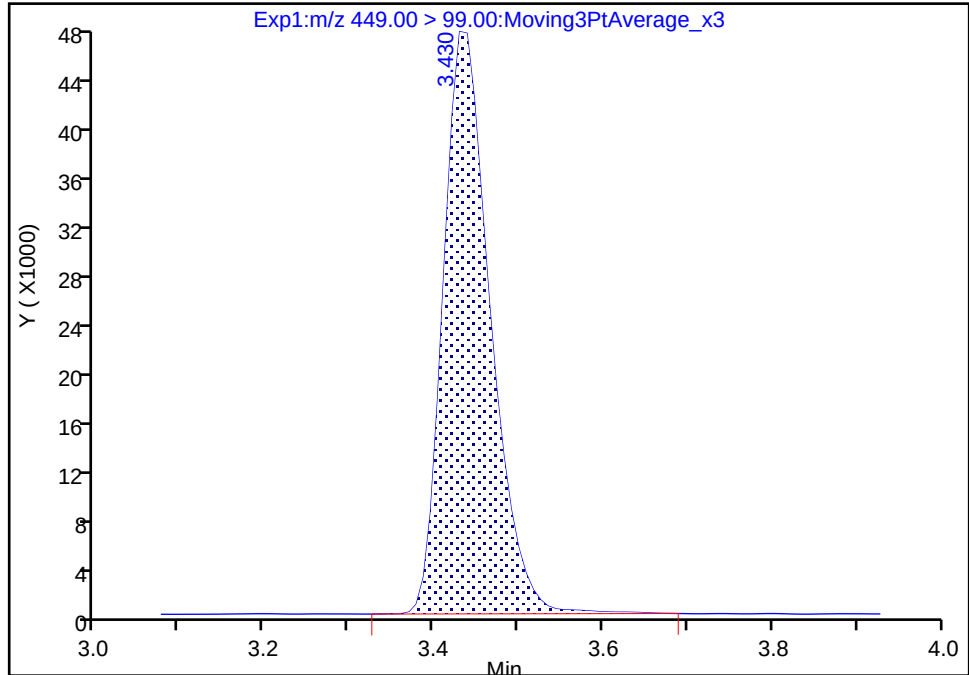
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

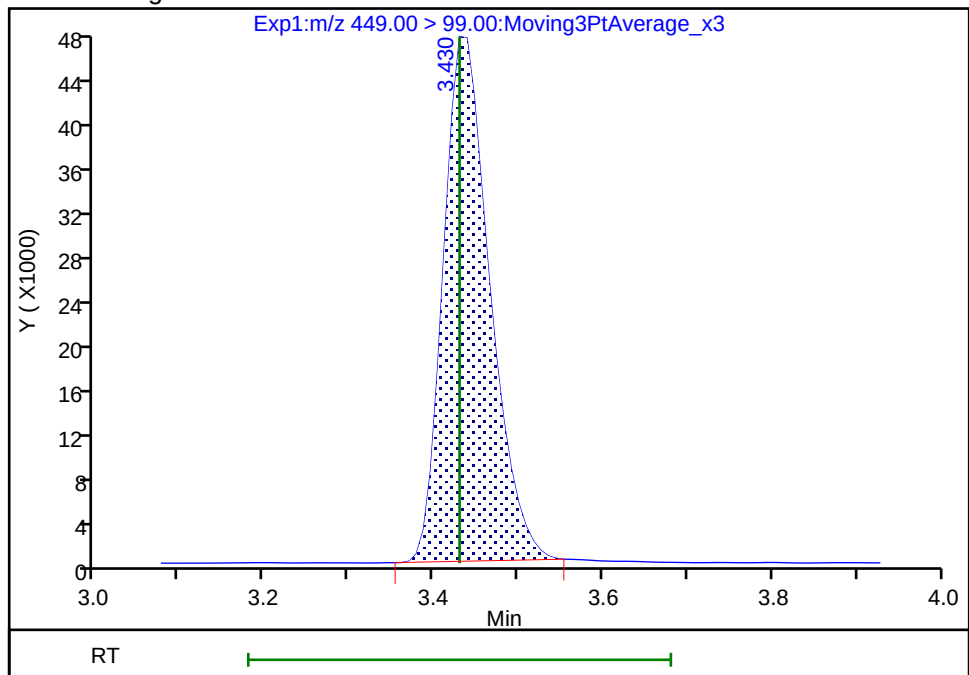
RT: 3.43
Area: 181384
Amount: 0.930789
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 178284
Amount: 0.921644
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:20:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 909 of 97811/21/2022
4:10 PM

Eurofins Burlington

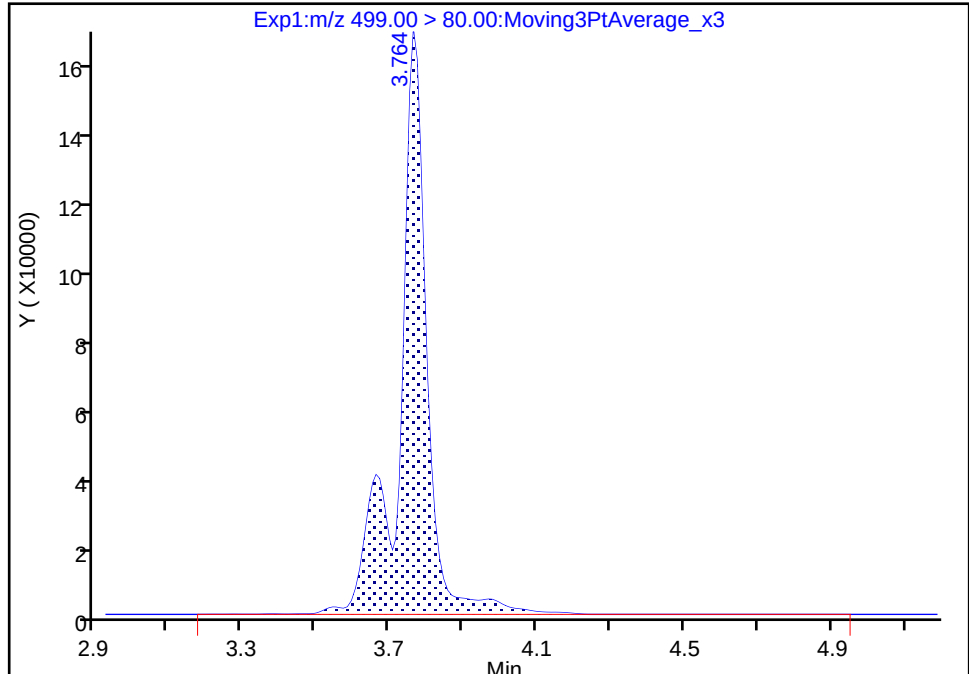
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

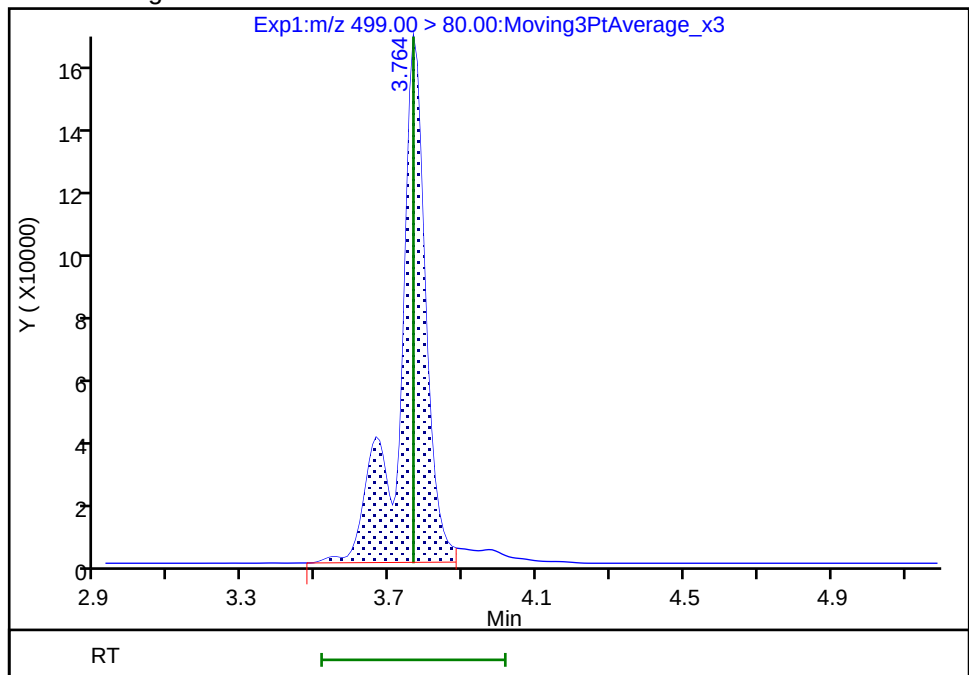
RT: 3.76
Area: 850883
Amount: 0.955190
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 802730
Amount: 0.901134
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 18:03:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

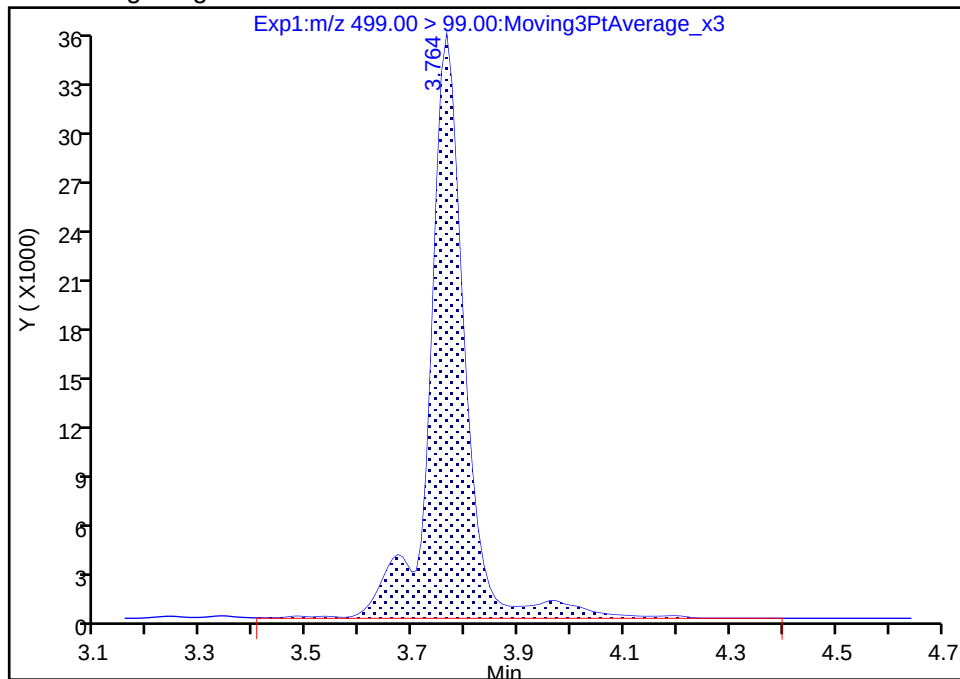
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

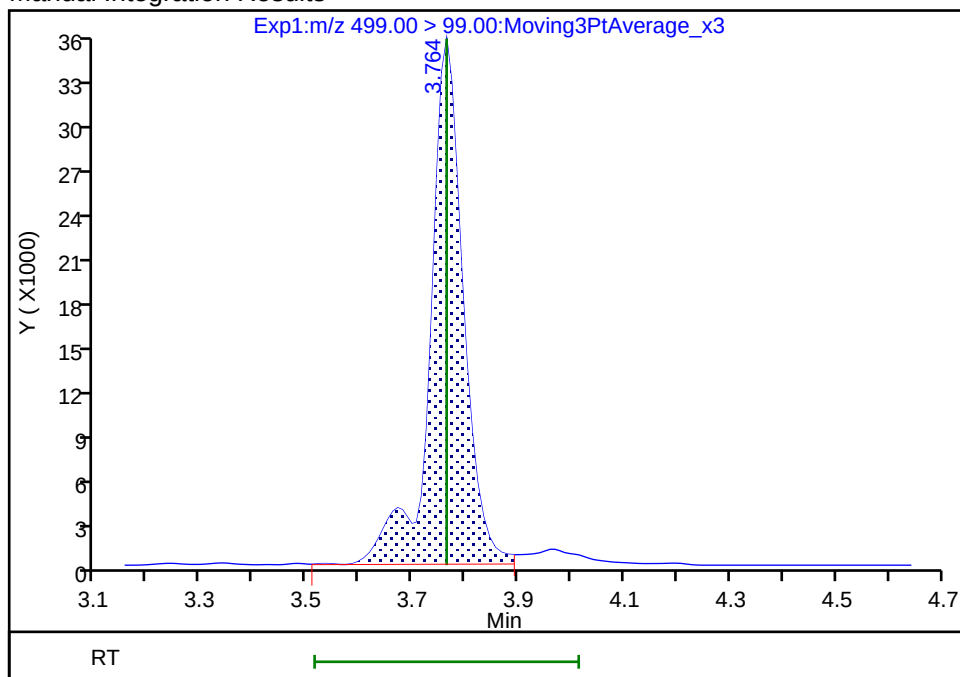
RT: 3.76
Area: 165118
Amount: 0.955190
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 154549
Amount: 0.901134
Amount Units: ng/ml

Manual Integration Results



Reviewer: SJ4N, 17-Nov-2022 18:03:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 911 of 97811/21/2022
4:10 PM

Eurofins Burlington

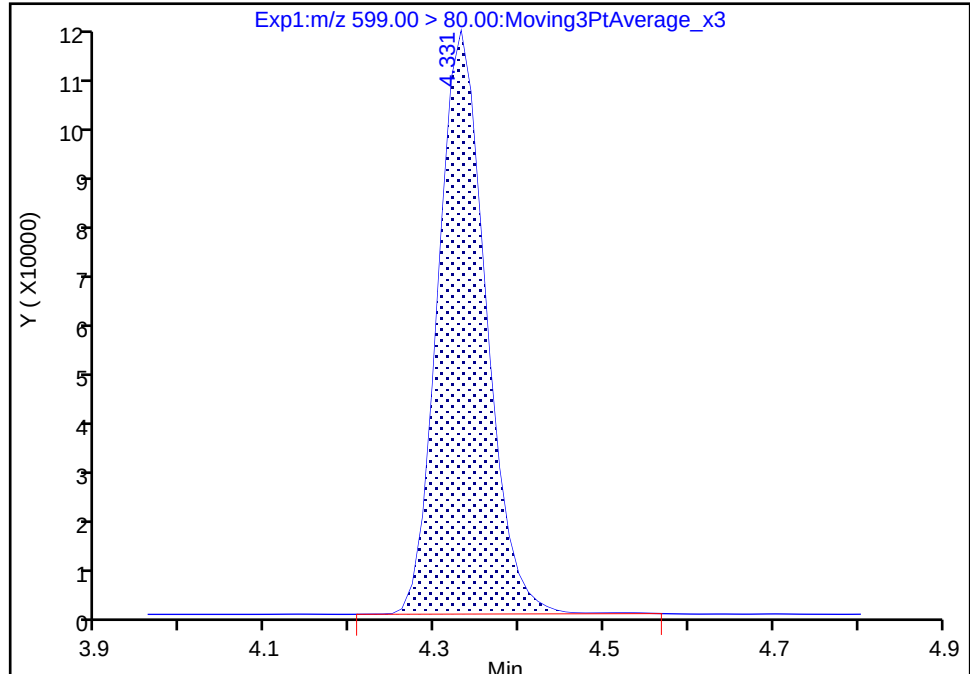
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

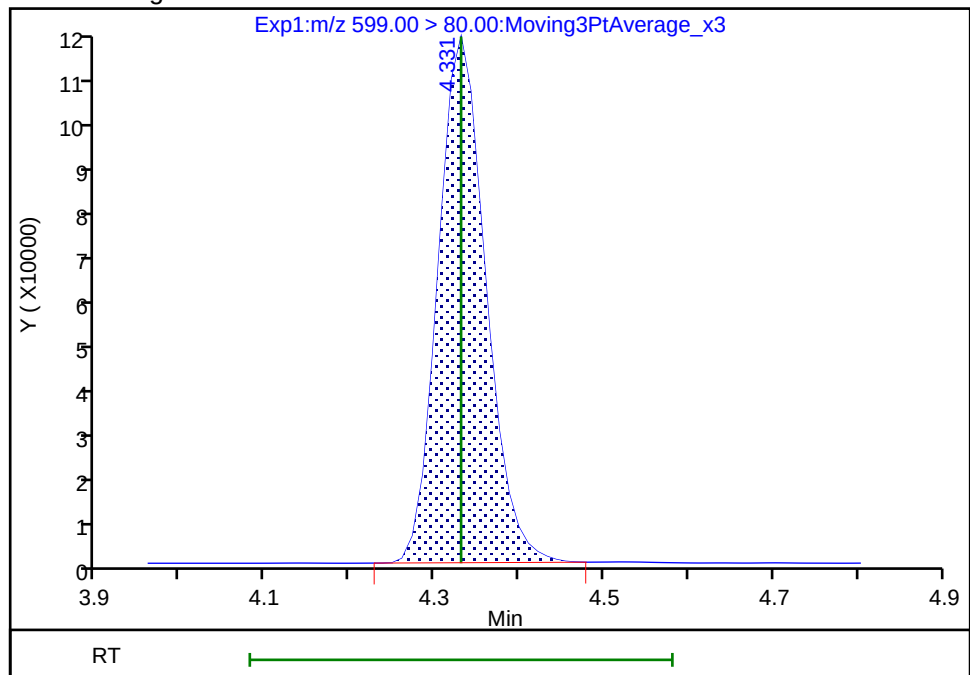
RT: 4.33
Area: 461375
Amount: 0.912021
Amount Units: ng/ml

Processing Integration Results



RT: 4.33
Area: 459764
Amount: 0.908836
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

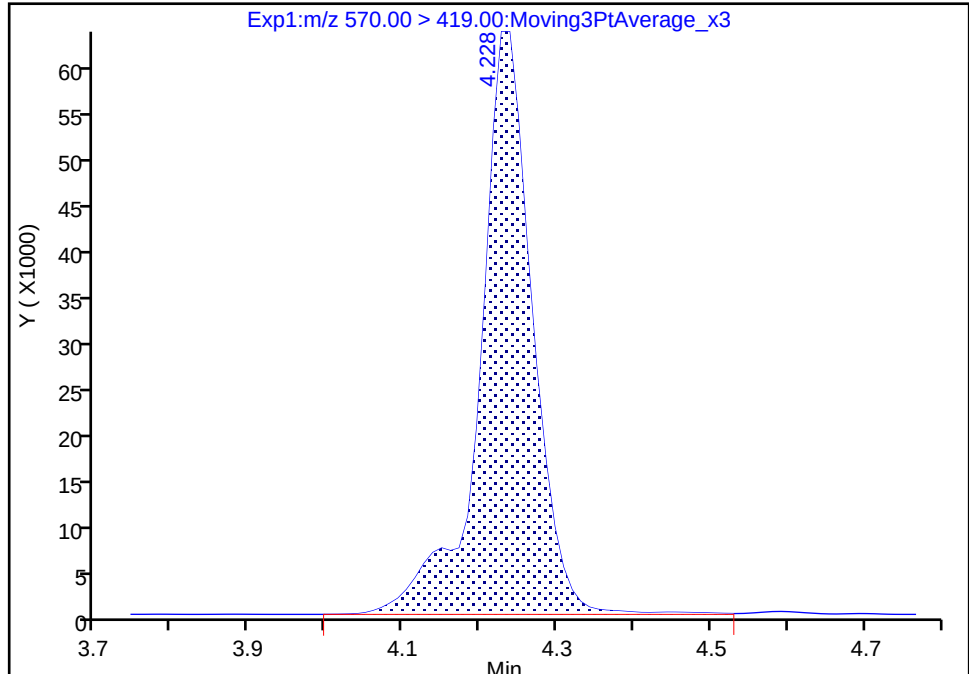
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

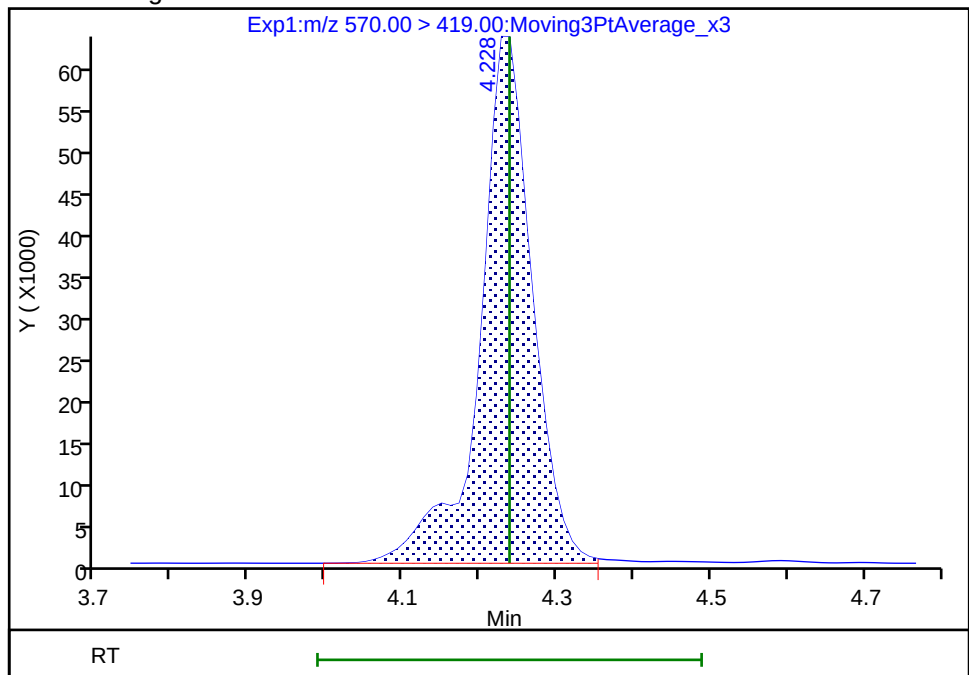
RT: 4.23
Area: 304693
Amount: 1.012760
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 302214
Amount: 1.004520
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

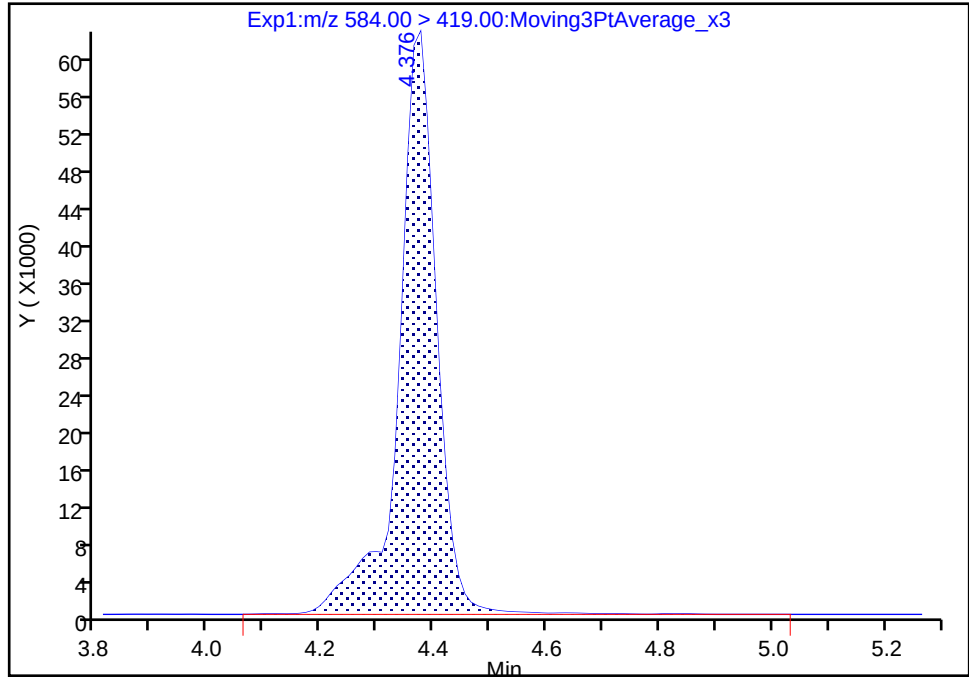
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

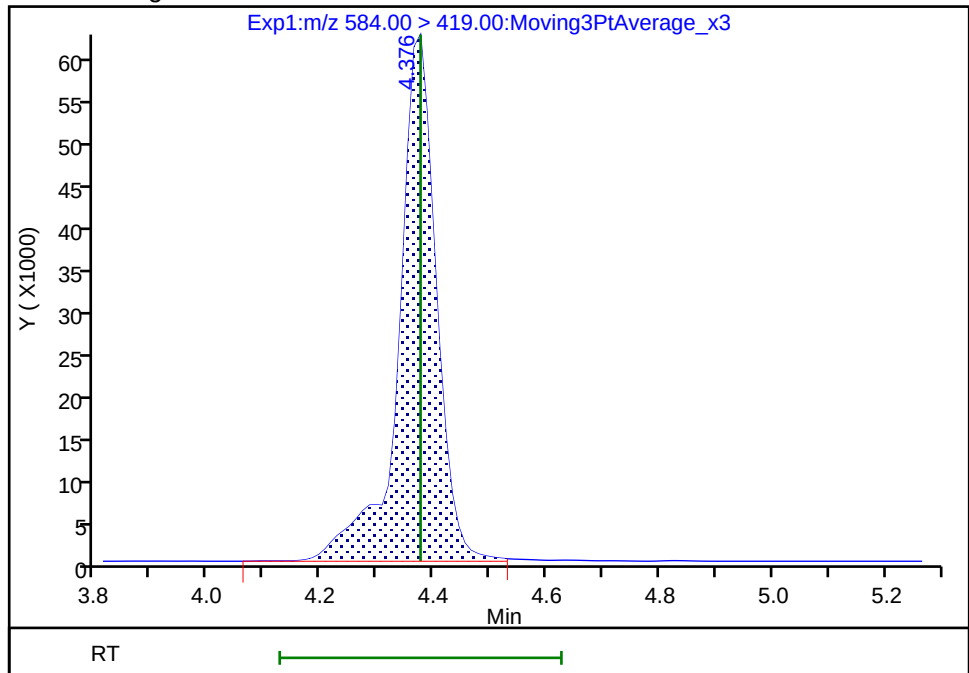
RT: 4.38
Area: 291897
Amount: 0.978749
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 290033
Amount: 0.972498
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

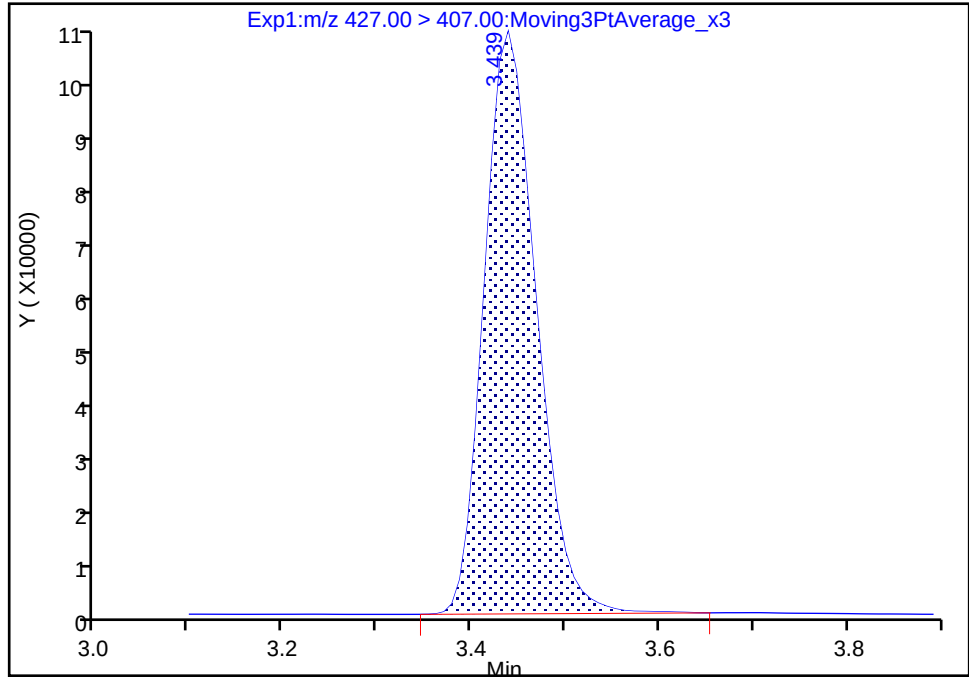
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

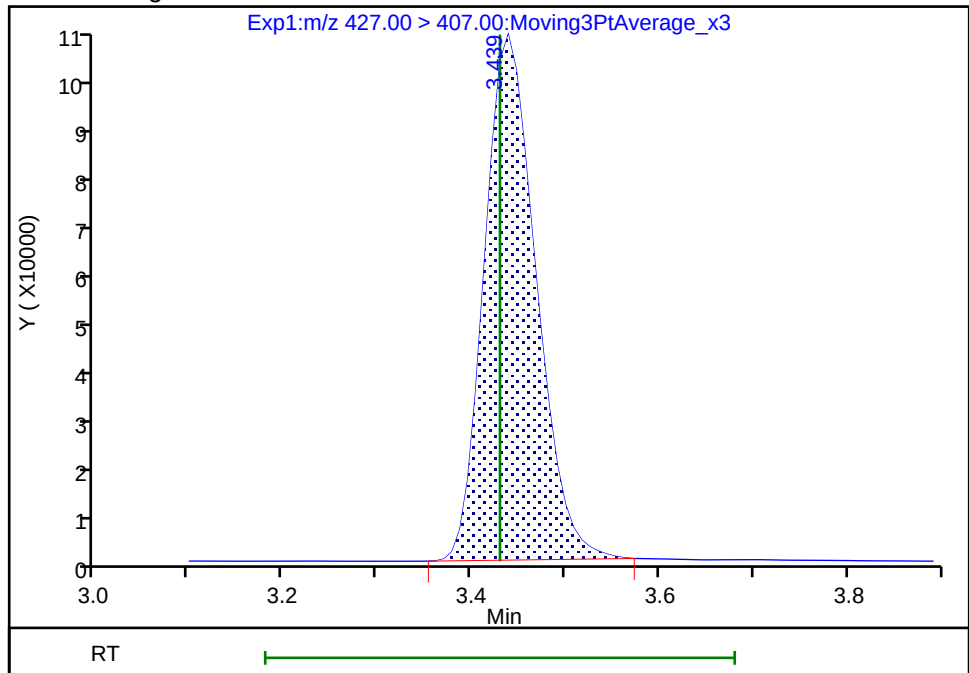
RT: 3.44
Area: 409968
Amount: 1.150237
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 406691
Amount: 1.141042
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:21:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

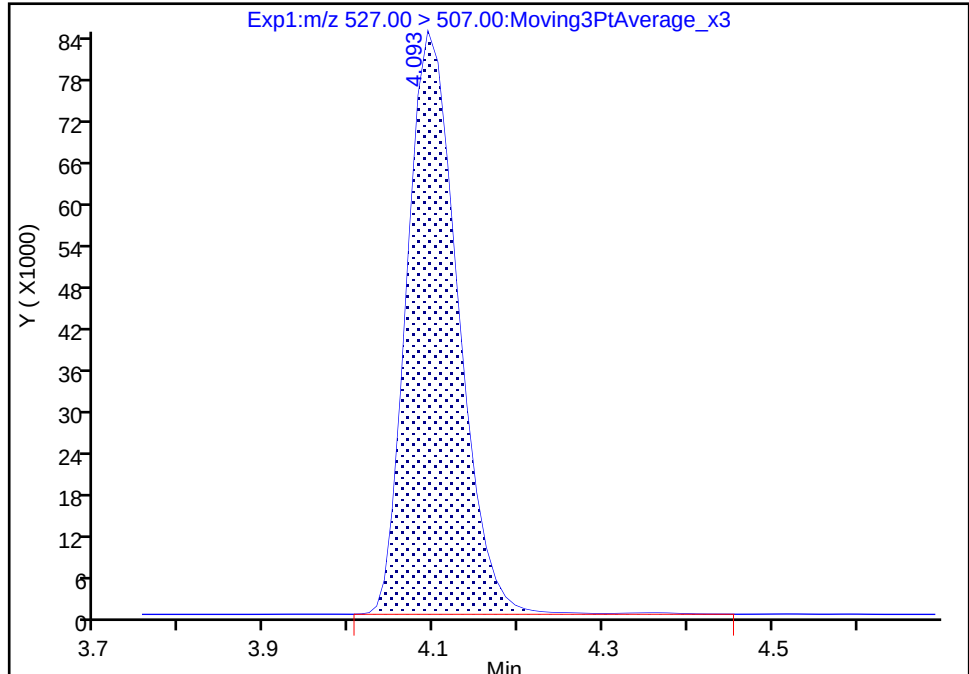
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D07.d
Injection Date: 16-Nov-2022 20:53:44 Instrument ID: LC812
Lims ID: 460-268915-A-1-B MS
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

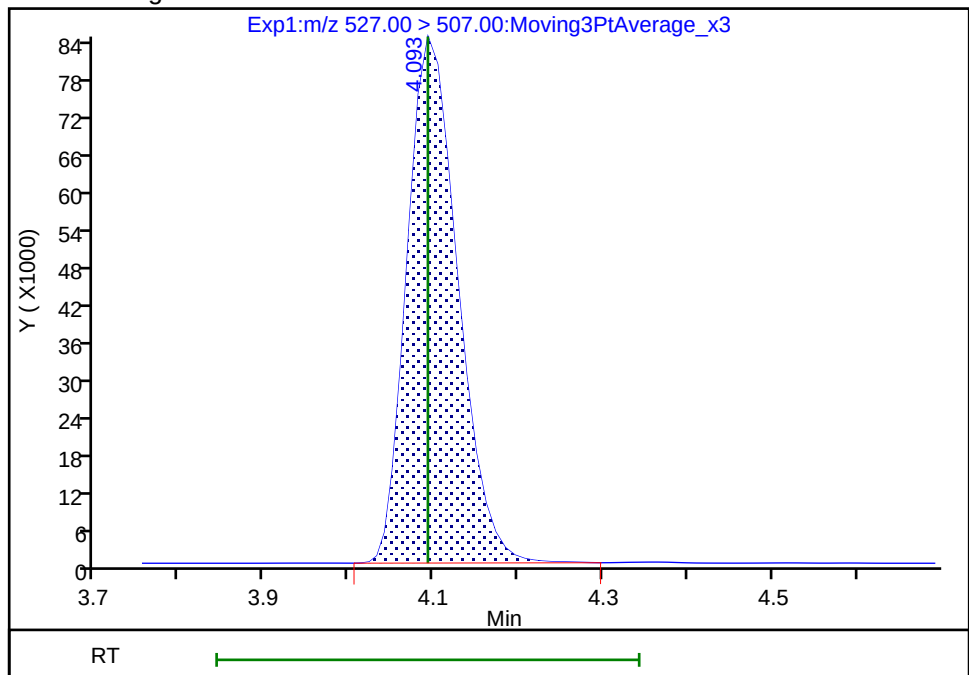
RT: 4.09
Area: 351576
Amount: 1.267624
Amount Units: ng/ml

Processing Integration Results



RT: 4.09
Area: 350195
Amount: 1.262645
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:22:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: 460-268915-A-1-C MSD

Matrix: Solid Lab File ID: PA221116D08.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30

Sample wt/vol: 5.02(g) Date Analyzed: 11/16/2022 21:01

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

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

% Moisture: 13.0 % Solids: 87.0 GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.183		0.57	0.38
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.404		0.23	0.063
307-24-4	Perfluorohexanoic acid (PFHxA)	2.256		0.23	0.053
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.183		0.23	0.045
335-67-1	Perfluorooctanoic acid (PFOA)	2.194		0.23	0.066
375-95-1	Perfluorononanoic acid (PFNA)	2.214		0.23	0.039
335-76-2	Perfluorodecanoic acid (PFDA)	2.317		0.23	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.164		0.23	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	2.270		0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.283		0.23	0.029
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.937		0.23	0.030
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.913		0.23	0.038
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.904		0.23	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.113		0.23	0.026
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.015		0.23	0.13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.052		0.23	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.261		0.23	0.039
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.235	J	2.29	0.13
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.218	J	2.29	0.095
27619-97-2	6:2 FTS	2.466		2.29	0.065
39108-34-4	8:2 FTS	2.706		2.29	0.042

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 460-268915-A-1-C MSD
 Matrix: Solid Lab File ID: PA221116D08.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: SHAKE Date Extracted: 11/15/2022 15:30
 Sample wt/vol: 5.02(g) Date Analyzed: 11/16/2022 21:01
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: 13.0 % Solids: 87.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 185848 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	85		50-150
STL01892	13C4 PFHpA	84		50-150
STL00990	13C4 PFOA	87		50-150
STL00991	13C4 PFOS	86		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	69		50-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	88		50-150
STL00997	13C2 PFUnA	98		50-150
STL00998	13C2 PFDoA	94		50-150
STL01056	13C8 FOSA	86		50-150
STL01893	13C5 PFPeA	74		50-150
STL02116	13C2 PFTeDA	94		50-150
STL02118	d3-NMeFOSAA	127		50-150
STL02117	d5-NEtFOSAA	124		50-150
STL02279	M2-6:2 FTS	88		50-150
STL02280	M2-8:2 FTS	87		50-150
STL02337	13C3 PFBS	80		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
 Lims ID: 460-268915-A-1-C MSD
 Client ID: 11OC F-1
 Sample Type: MSD
 Inject. Date: 16-Nov-2022 21:01:55 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 460-268915-A-1-C MSD
 Misc. Info.: 200-0053360-008 Plate: 1 Rack: 4
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 17-Nov-2022 18:18:21 Calib Date: 14-Sep-2022 11:14:32
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220914-52438.b\PA220914ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1649

First Level Reviewer: khanphomeea

Date: 17-Nov-2022 14:29:41

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.077	2.068	0.009	0.602	1963794	0.8564		68.5	5273	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.077	2.076	0.001	1.000	1516168	0.9532		95.3	120	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.375	2.373	0.002	0.688	1667102	0.9240		73.9	2416	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.375	2.373	0.002	1.000	1498089	1.05		105	33.9	
D 47 13C3 PFBS										
301.90 > 80.00	2.389	2.386	0.003	0.692	1710274	0.9357		80.5	289273	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.402	2.400	0.002	1.006	1417013	0.8355	Target=2.19	94.5	1609	M
298.90 > 99.00	2.402	2.400	0.002	1.006	679443		2.09(1.09-3.28)		292	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.692	2.689	0.003	1.000	364519	0.9727		104	1652	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.692	2.689	0.003	0.780	161273	0.9734		83.4	156	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.728	2.725	0.003	0.790	1856521	1.01		81.0	4286	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.728	2.725	0.003	1.000	1588248	0.9850	Target=13.67	98.5	285	M
313.00 > 119.00	2.728	2.725	0.003	1.000	108743		14.61(6.83-20.50)		200	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.728	2.725	0.003	0.882	1321348	0.8680	Target=3.00	92.5	2175	M
349.00 > 99.00	2.728	2.725	0.003	0.882	440764		3.00(1.50-4.51)		858	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.838	2.823	0.015	0.822	322439	0.9364		74.9	1378	

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	2.838	2.823	0.015	1.000	270692	0.9607		96.1	2148	
D 11 18O2 PFHxS										
403.00 > 84.00	3.094	3.088	0.006	0.896	1311622	1.01		85.0	3191	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.094	3.088	0.006	1.000	1072727	0.8314	Target=3.60	91.4	996	M
399.00 > 99.00	3.094	3.088	0.006	1.000	295536		3.63(1.80-5.40)		351	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.094	3.088	0.006	0.896	1889318	1.05		83.9	3023	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.094	3.088	0.006	1.000	1605735	0.9532	Target=3.76	95.3	318	M
363.00 > 169.00	3.094	3.088	0.006	1.000	414434		3.87(1.88-5.65)		808	M
77 DONA										
377.00 > 251.00	3.138	3.121	0.017	0.832	3969683	0.9698	Target=3.10	103	2950	
377.00 > 85.00	3.138	3.121	0.017	0.832	1241022		3.20(1.55-4.65)		1924	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.444	3.430	0.014	0.914	957254	0.9226	Target=5.32	96.9	2331	M
449.00 > 99.00	3.435	3.430	0.005	0.911	186999		5.12(2.66-7.97)		580	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.444	3.430	0.014	0.997	233106	1.05		88.1	687	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.435	3.430	0.005	0.997	385068	1.08		114	1261	
D 14 13C4 PFOA										
417.00 > 372.00	3.444	3.439	0.005	0.997	2090232	1.08		86.7	4012	
* 62 13C2 PFOA										
415.00 > 370.00	3.452	3.439	0.013		2350024	1.25			3663	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.452	3.439	0.013	1.003	1813319	0.9580	Target=2.73	95.8	120	M
413.00 > 169.00	3.452	3.439	0.013	1.003	619841		2.93(1.37-4.10)		754	M
D 18 13C4 PFOS										
503.00 > 80.00	3.769	3.764	0.005	1.092	880014	1.02		85.6	2958	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.769	3.764	0.005	1.000	787361	0.8800	Target=5.09	94.8	152	M
499.00 > 99.00	3.769	3.764	0.005	1.000	156639		5.03(2.55-7.64)		179	M
D 19 13C5 PFNA										
468.00 > 423.00	3.789	3.783	0.006	1.097	2102209	1.11		88.7	6504	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.789	3.783	0.006	1.000	1707055	0.9670	Target=7.76	96.7	390	
463.00 > 169.00	3.789	3.783	0.006	1.000	200019		8.53(3.88-11.63)		1320	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.935	3.928	0.007	1.044	1836543	1.02		110	4021	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.057	4.061	-0.004	1.076	630327	0.9669	Target=2.67	101	2156	
549.00 > 99.00	4.057	4.061	-0.004	1.076	242482		2.60(1.34-4.01)		1547	
D 23 13C2 PFDA										
515.00 > 470.00	4.087	4.093	-0.006	1.184	2017603	1.09		87.6	5619	

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	4.087	4.093	-0.006	1.000	1756462	1.01	Target=9.83	101	683	
513.00 > 169.00	4.087	4.093	-0.006	1.000	177153		9.91(4.91-14.74)		320	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.099	4.093	0.006	1.187	274001	1.04		86.8	1113	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.099	4.093	0.006	1.000	335118	1.18		123	1256	M
D 21 13C8 FOSA										
506.00 > 78.00	4.144	4.138	0.006	1.200	1618450	1.08		86.3	3135	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.156	4.138	0.018	1.003	1290836	0.9872		98.7	1390	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.233	4.228	0.005	1.226	412675	1.59		127	598	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.233	4.238	-0.005	1.000	298036	0.9762		97.6	523	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.337	4.331	0.006	1.150	455380	0.8963	Target=2.59	93.0	1910	
599.00 > 99.00	4.337	4.331	0.006	1.150	171913		2.65(1.30-3.89)		1060	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.359	4.365	-0.006	1.263	1847970	1.22		98.0	5139	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.359	4.365	-0.006	1.000	1457421	0.9451	Target=9.68	94.5	633	M
563.00 > 169.00	4.359	4.365	-0.006	1.000	143770		10.14(4.84-14.53)		1425	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.371	4.376	-0.005	1.266	399458	1.55		124	969	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.371	4.376	-0.005	1.000	282791	0.9685		96.9	818	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.460	4.465	-0.005	1.183	2516098	1.08		114	4043	
D 36 13C2 PFDaA										
615.00 > 570.00	4.597	4.602	-0.005	1.331	1724848	1.17		93.8	4470	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.597	4.602	-0.005	1.000	1461884	0.99	Target=6.96	99.1	132	M
613.00 > 169.00	4.597	4.602	-0.005	1.000	187956		7.78(3.48-10.43)		674	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.618	4.622	-0.004	1.127	179770	1.17		121	1023	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.782	4.785	-0.003	1.269	172792	0.8365	Target=0.52	86.4	1587	M
699.00 > 99.00	4.782	4.785	-0.003	1.269	348339		0.50(0.26-0.78)		2495	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.809	4.825	-0.016	1.046	1347293	1.00	Target=4.85	99.7	118	M
663.00 > 169.00	4.809	4.825	-0.016	1.046	255907		5.26(2.42-7.27)		929	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.009	5.032	-0.023	1.451	1481934	1.18		94.3	4742	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.019	5.032	-0.013	1.002	155955	0.8457	Target=0.99	84.6	751	M
713.00 > 219.00	5.009	5.032	-0.023	1.000	157979		0.99(0.49-1.48)		604	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	5.377	5.400	-0.024	1.557	1668784	1.20		96.2	3772	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.377	5.411	-0.035	1.000	1225124	1.01	Target=4.99	101	154	M
813.00 > 169.00	5.377	5.411	-0.035	1.000	220751		5.55(2.49-7.48)		1234	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.730	5.786	-0.056	1.066	952281	0.9869	Target=4.90	98.7	154	M
913.00 > 169.00	5.721	5.786	-0.065	1.064	147799		6.44(2.45-7.35)		569	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d

Injection Date: 16-Nov-2022 21:01:55

Instrument ID: LC812

Lims ID: 460-268915-A-1-C MSD

Client ID: 11OC F-1

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

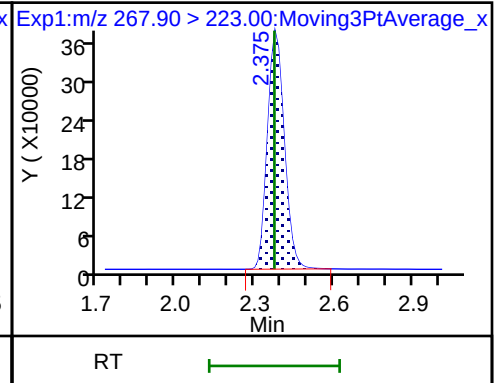
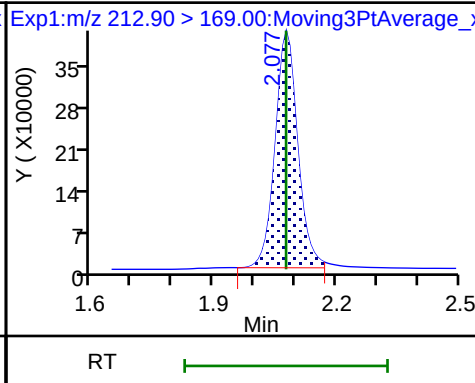
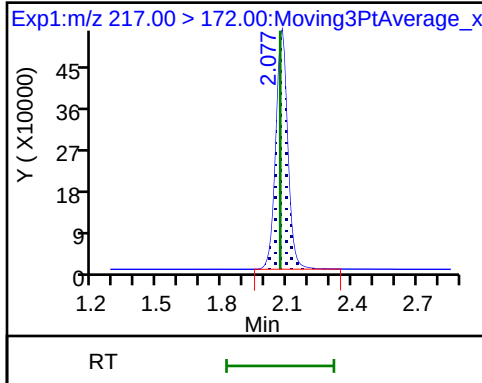
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

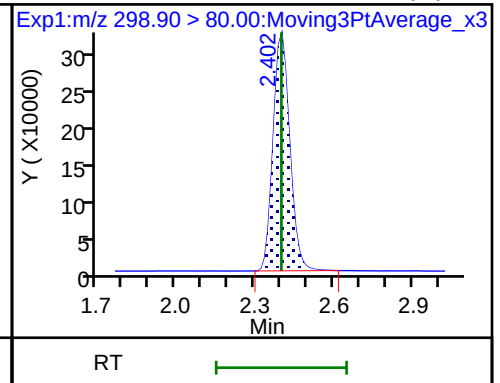
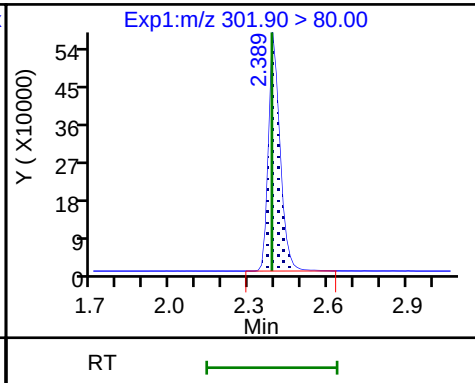
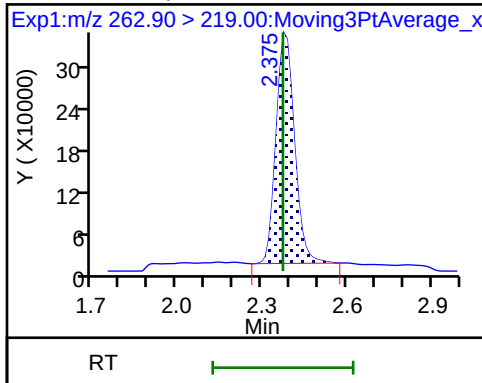
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

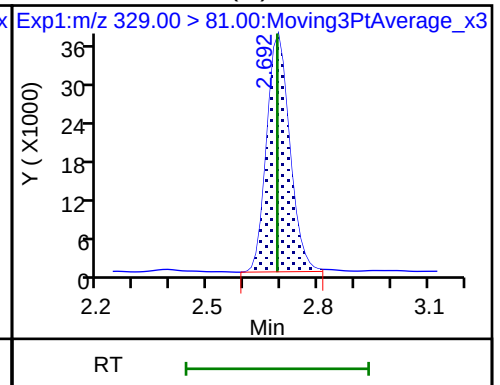
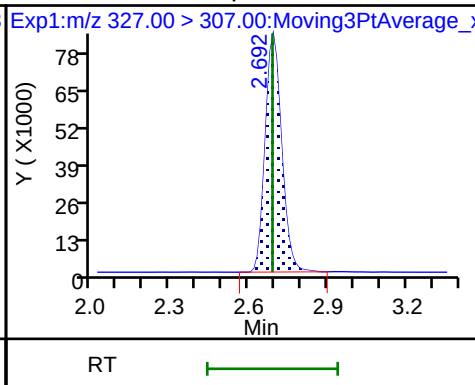
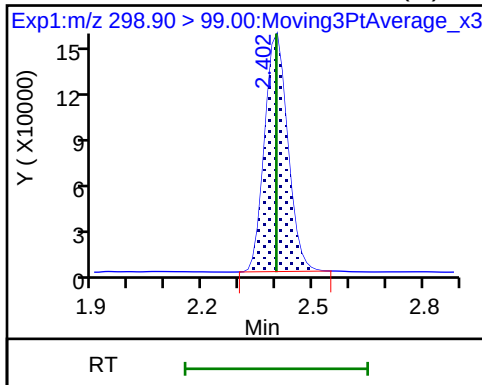
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo

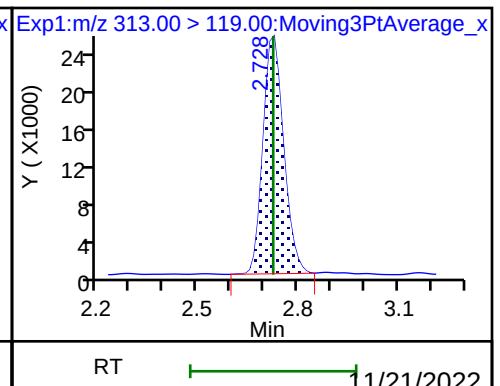
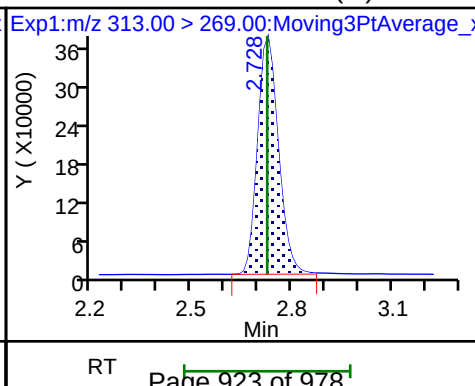
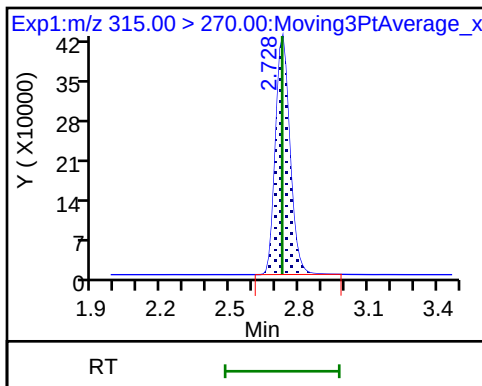
D 60 M2-4:2 FTS (M)



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

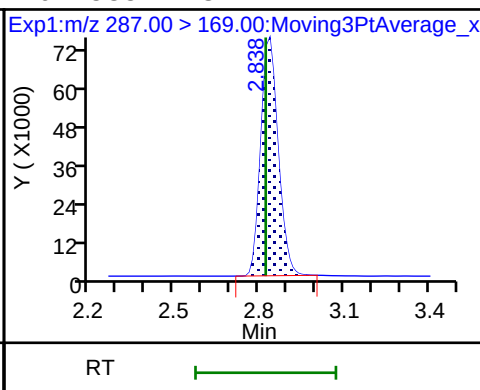
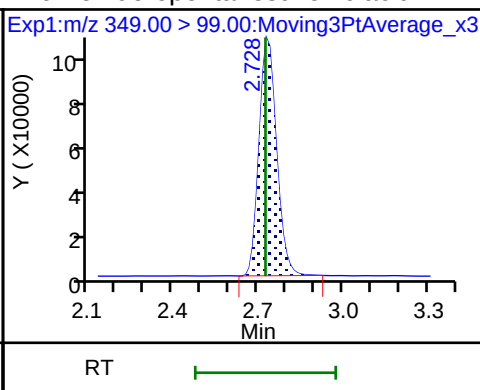
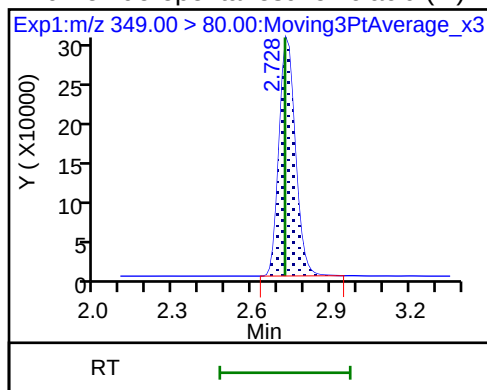
6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid

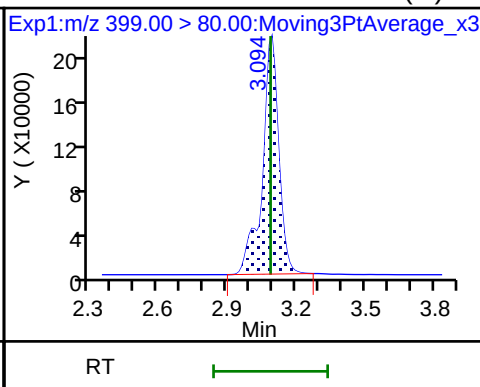
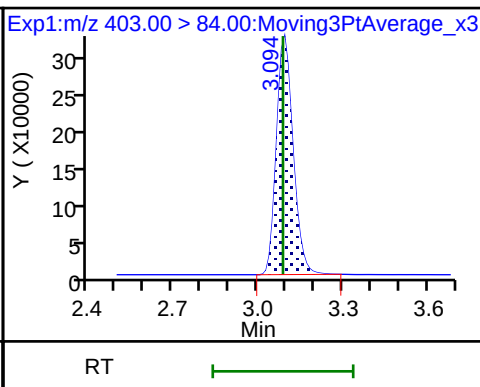
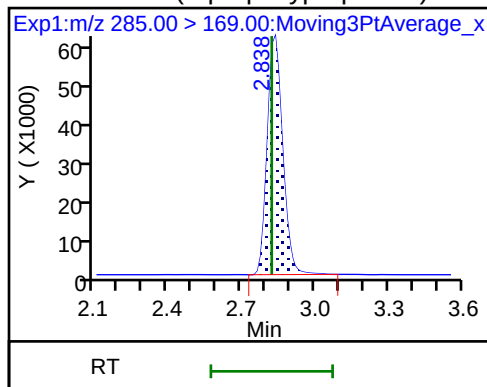
D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac

D 11 18O2 PFHxS

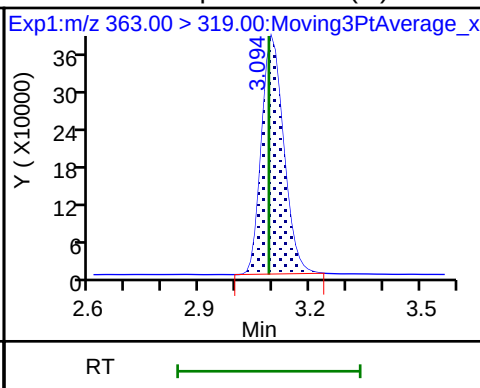
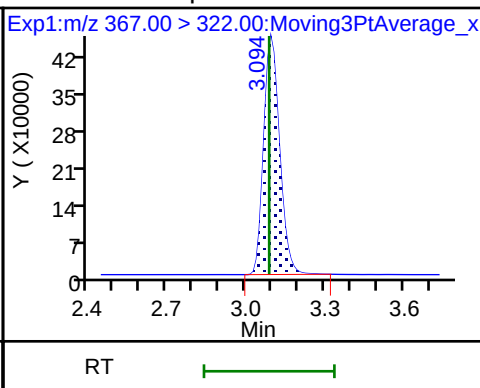
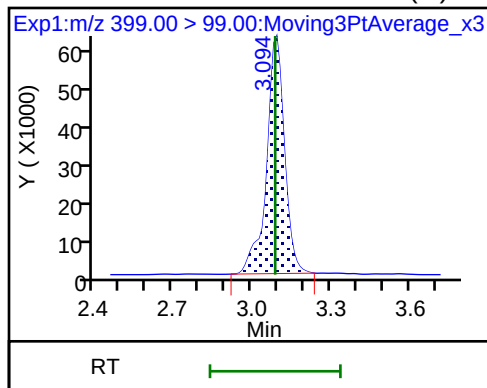
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

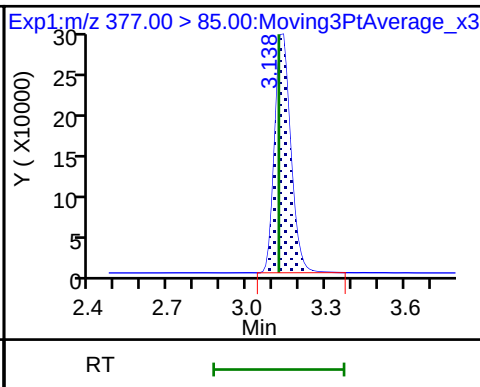
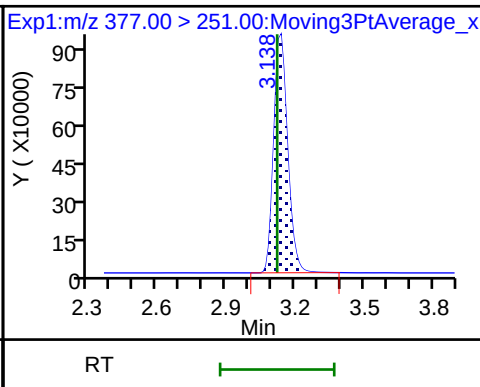
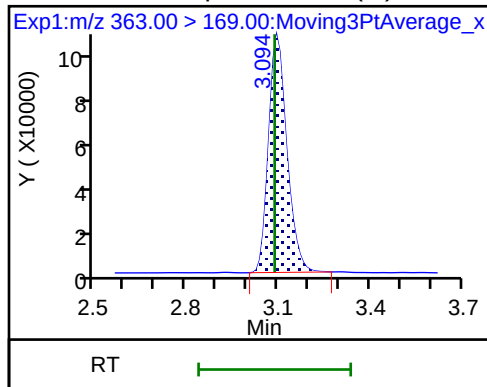
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

77 DONA

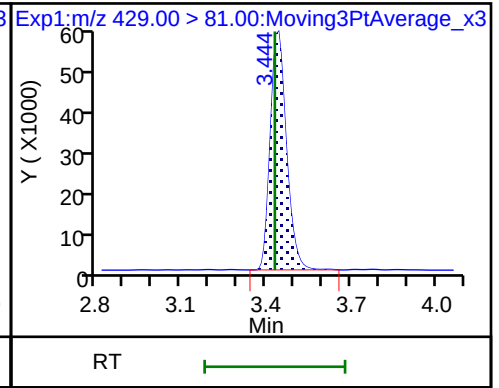
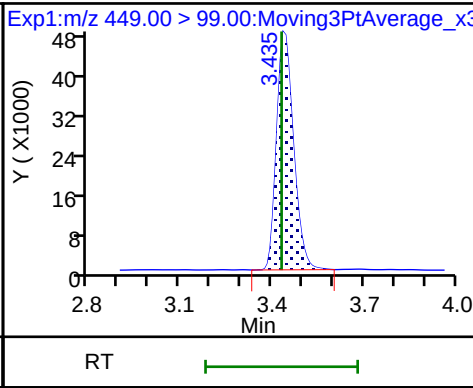
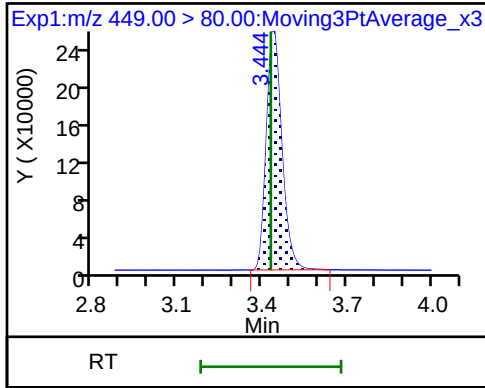
77 DONA



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid

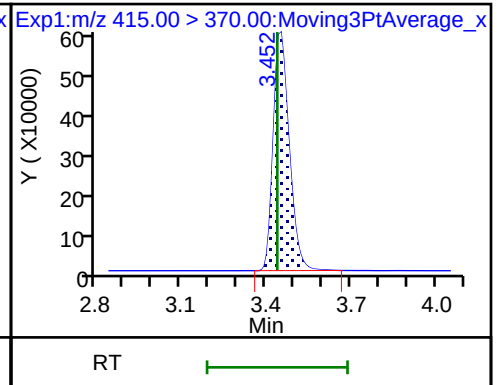
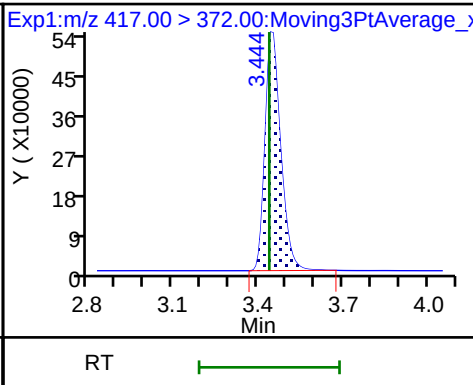
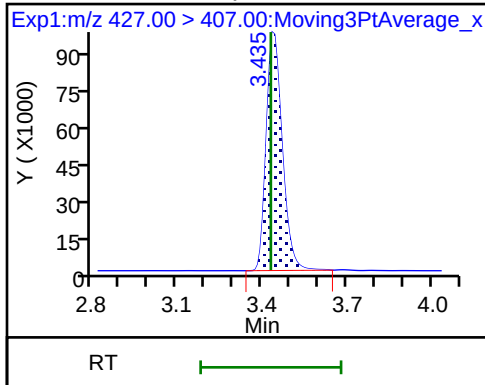
D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo

D 14 13C4 PFOA

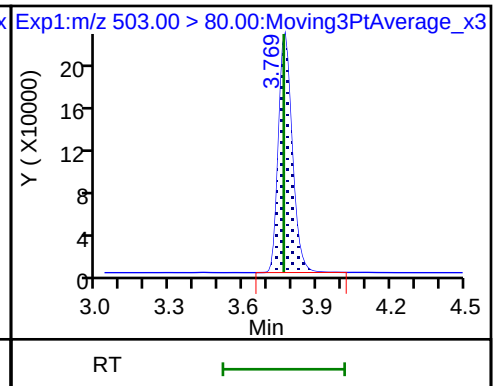
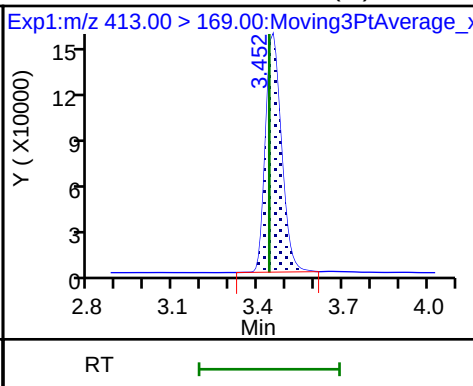
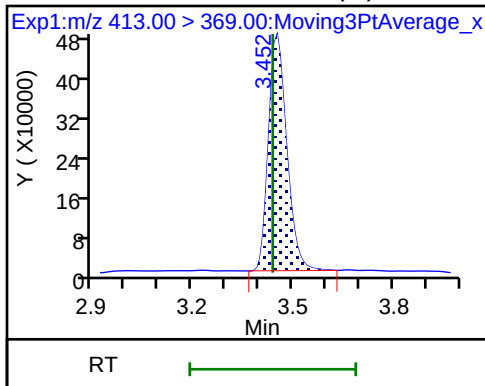
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

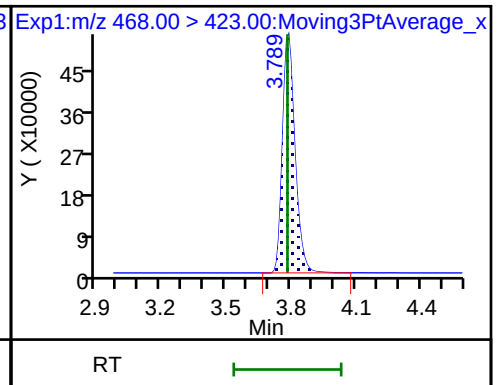
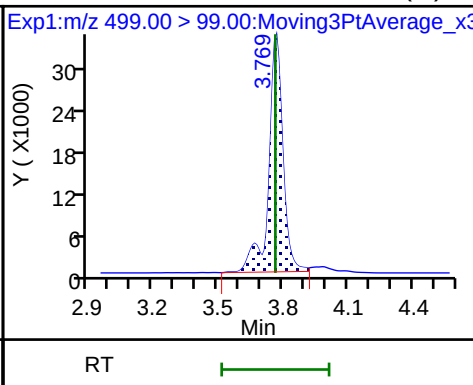
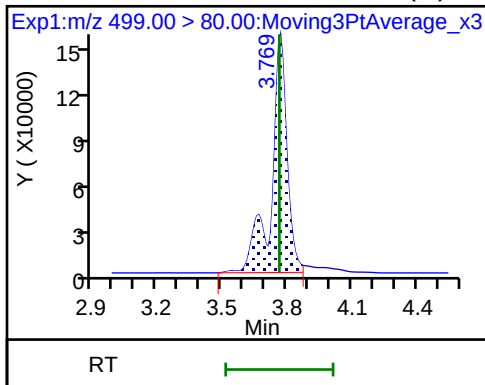
D 18 13C4 PFOS

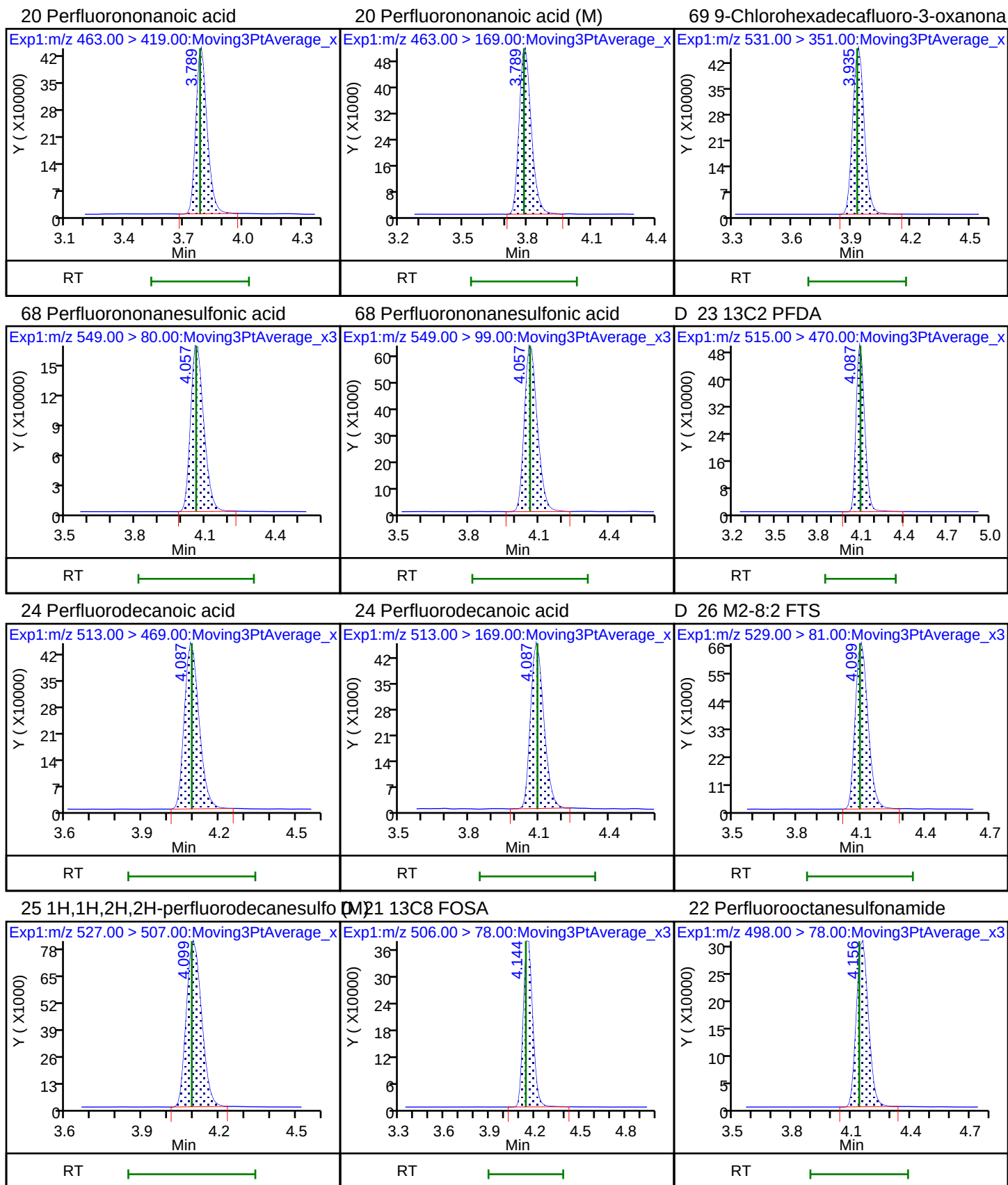


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

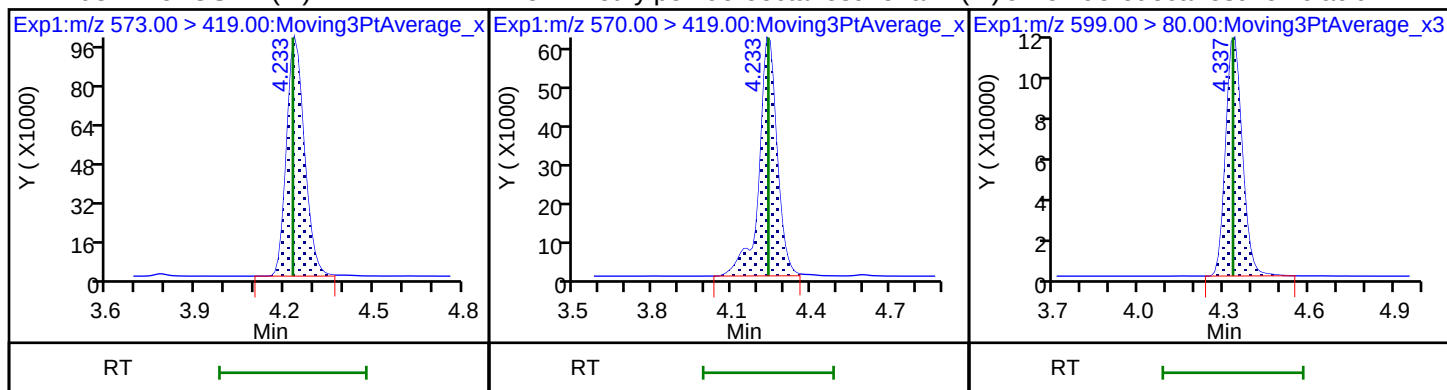




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

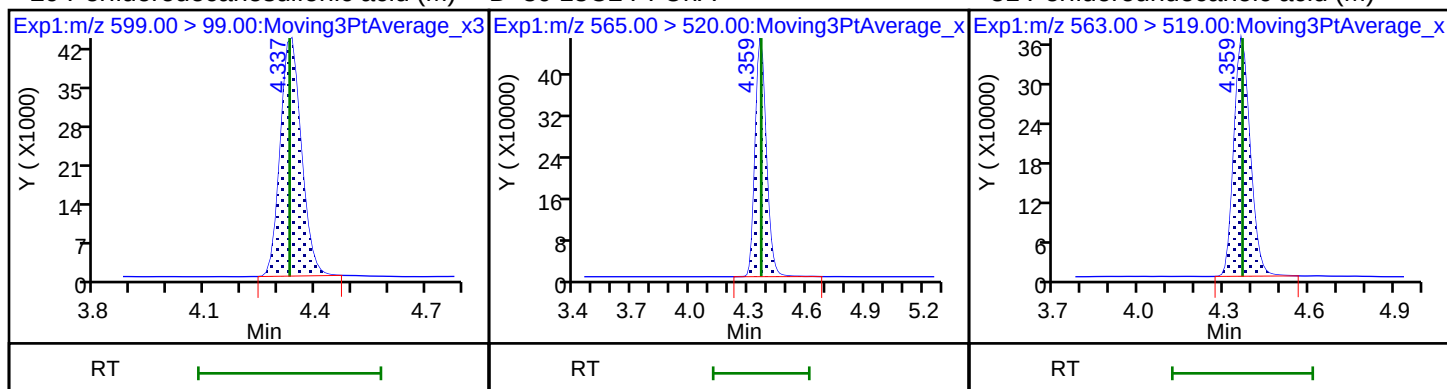
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

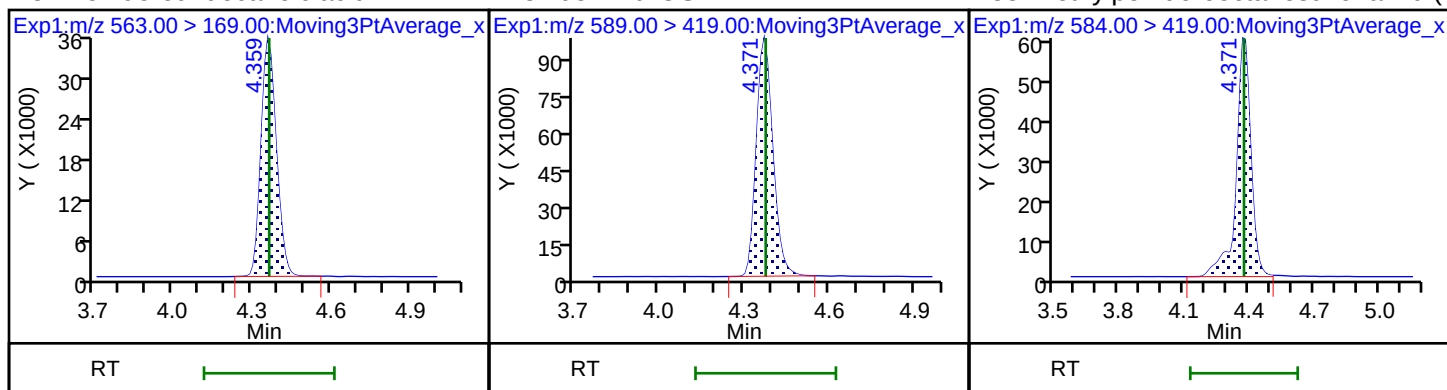
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

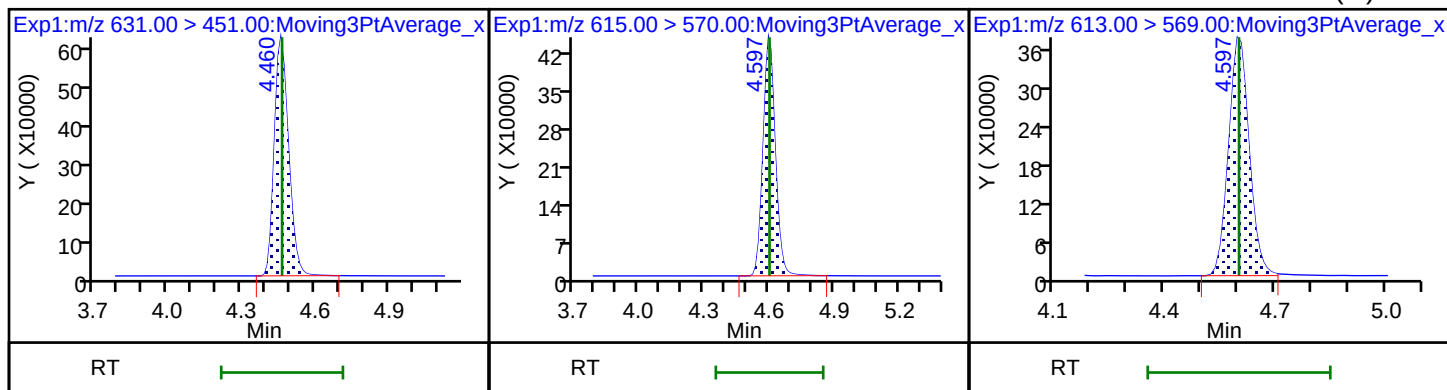
33 N-ethylperfluorooctanesulfonamid (M)



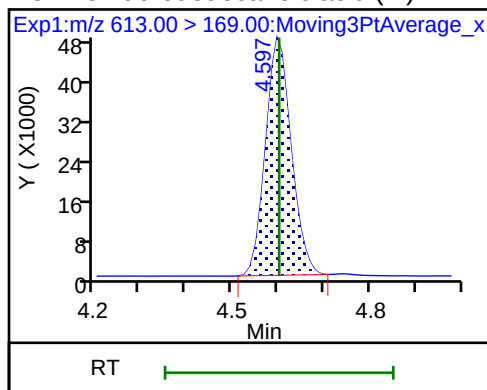
66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

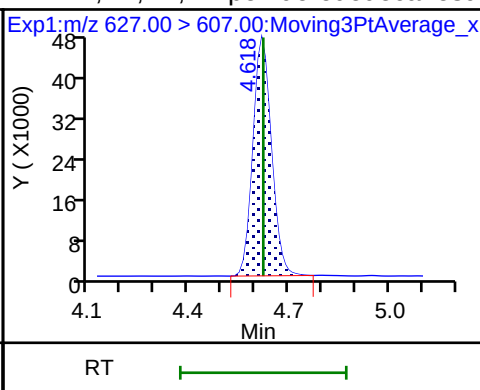
37 Perfluorododecanoic acid (M)



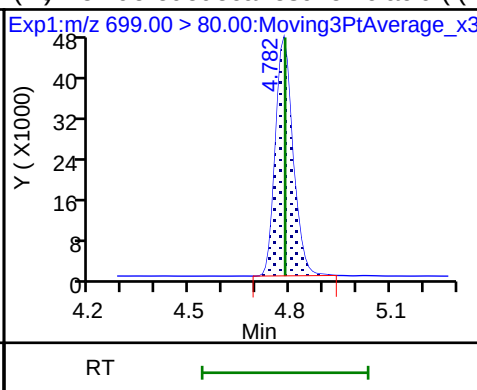
37 Perfluorododecanoic acid (M)



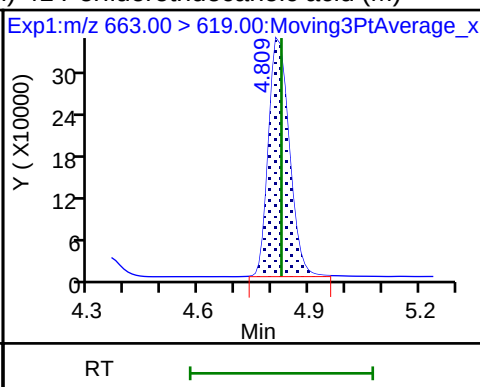
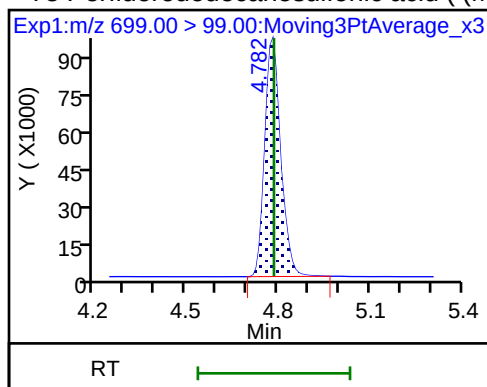
74 1H,1H,2H,2H-perfluorododecanesul (M)



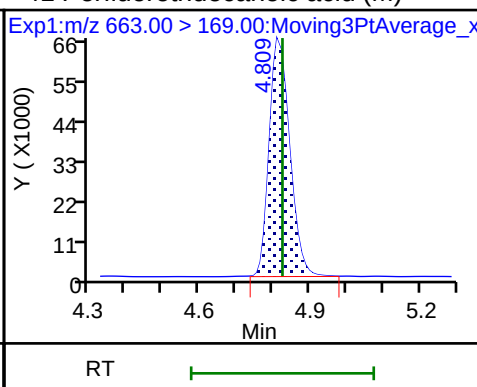
75 Perfluorododecanesulfonic acid (M)



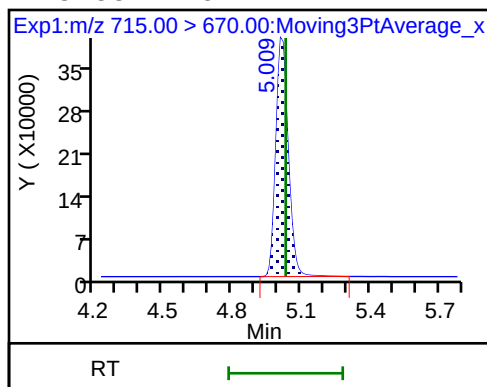
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)



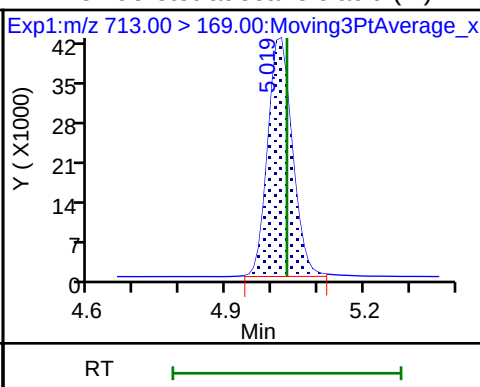
41 Perfluorotridecanoic acid (M)



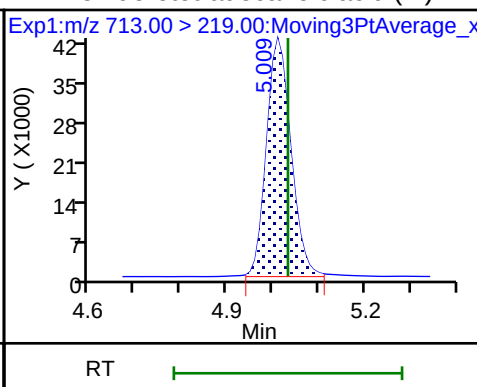
D 43 13C2 PFTeDA



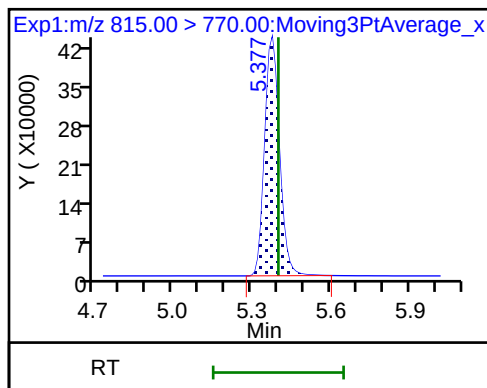
42 Perfluorotetradecanoic acid (M)



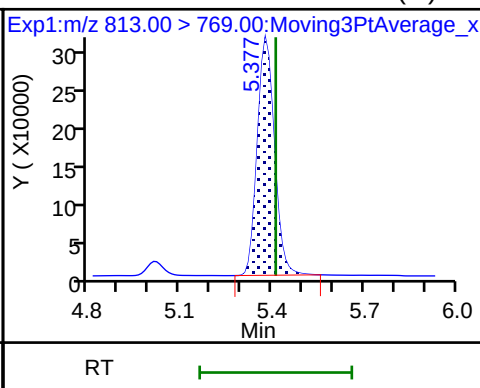
42 Perfluorotetradecanoic acid (M)



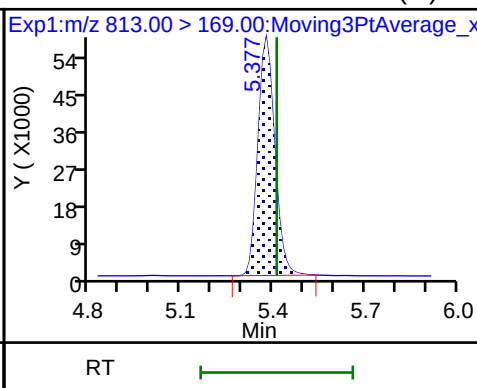
D 44 13C2 PFHxDA



45 Perfluorohexadecanoic acid (M)

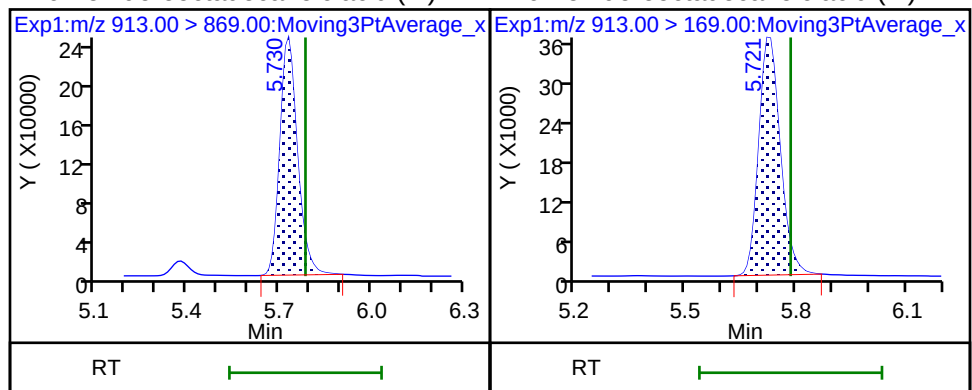


45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

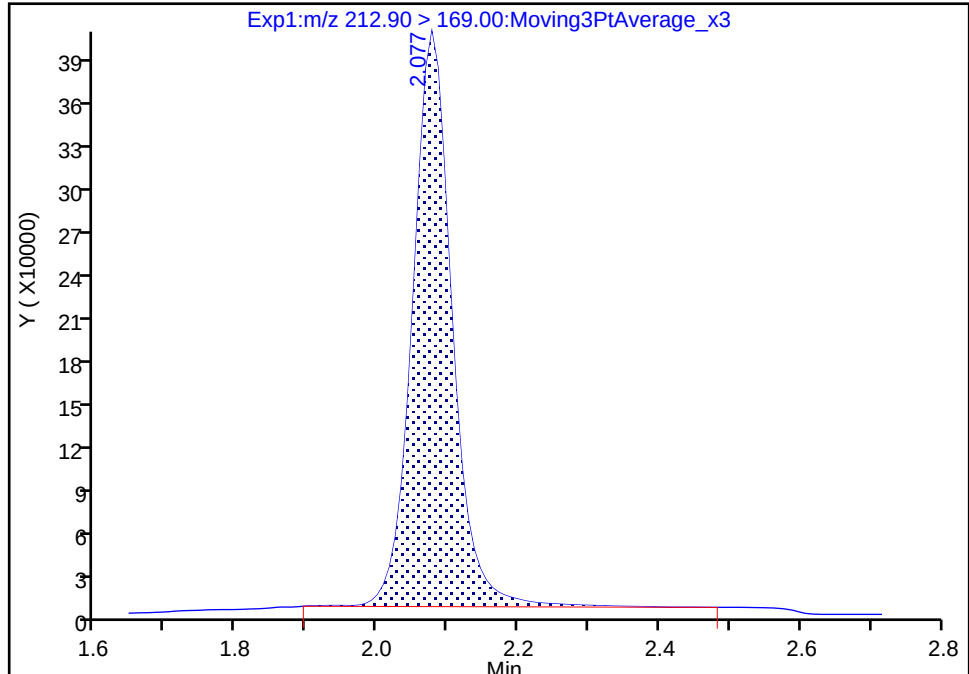
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

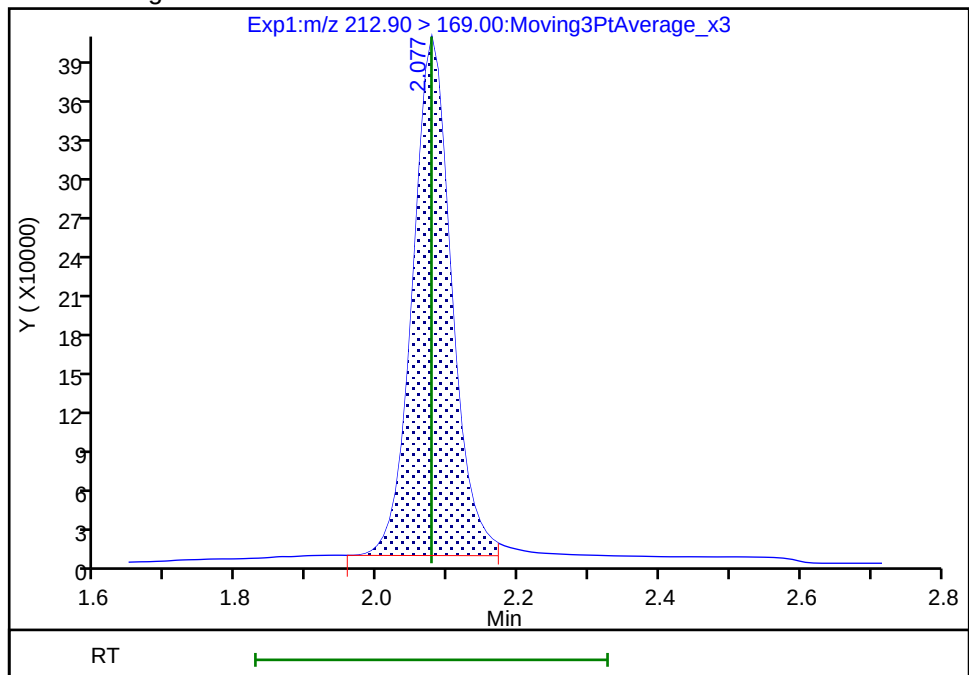
RT: 2.08
Area: 1555082
Amount: 0.977674
Amount Units: ng/ml

Processing Integration Results



RT: 2.08
Area: 1516168
Amount: 0.953209
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:25:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

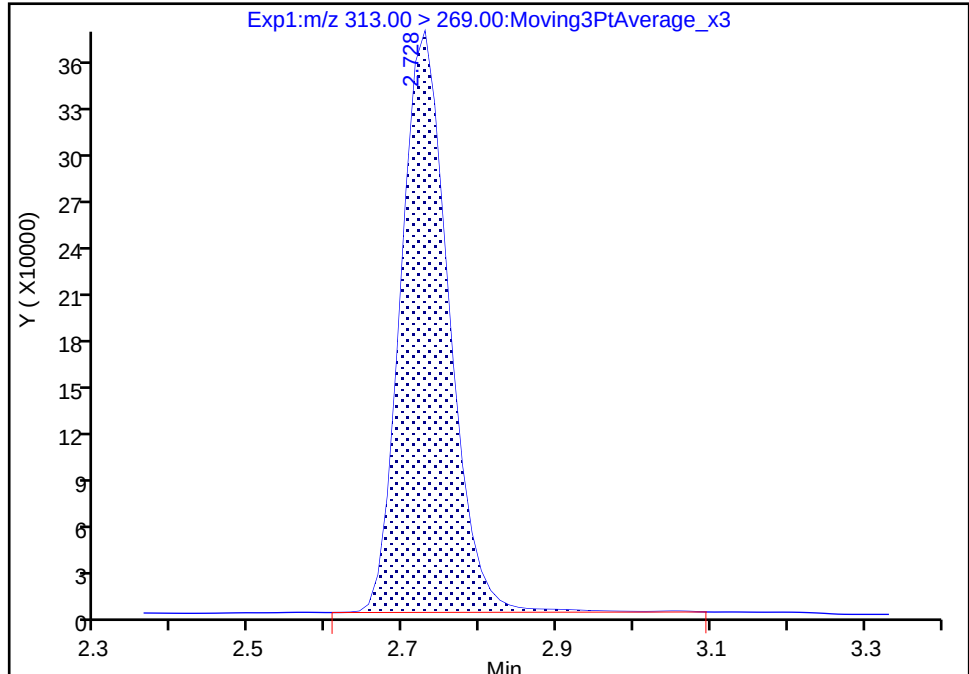
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

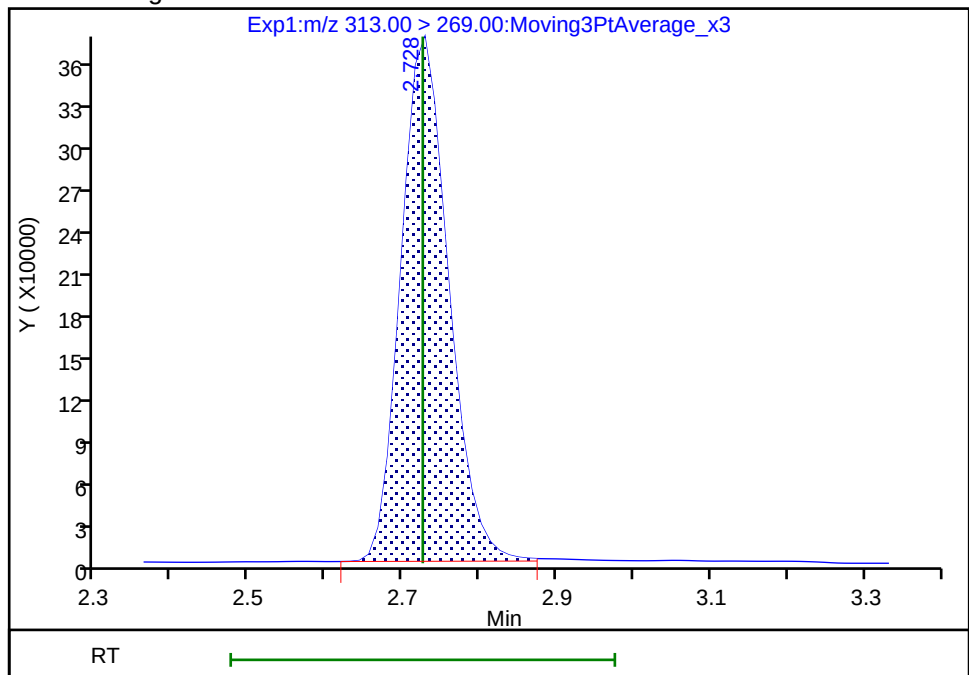
RT: 2.73
Area: 1599817
Amount: 0.992161
Amount Units: ng/ml

Processing Integration Results



RT: 2.73
Area: 1588248
Amount: 0.984986
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

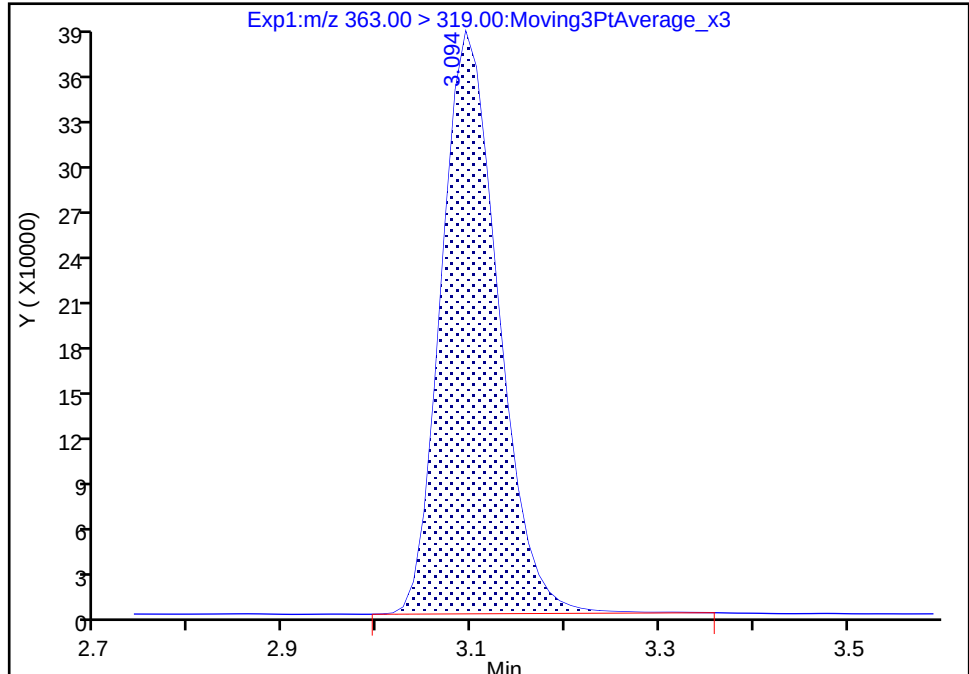
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

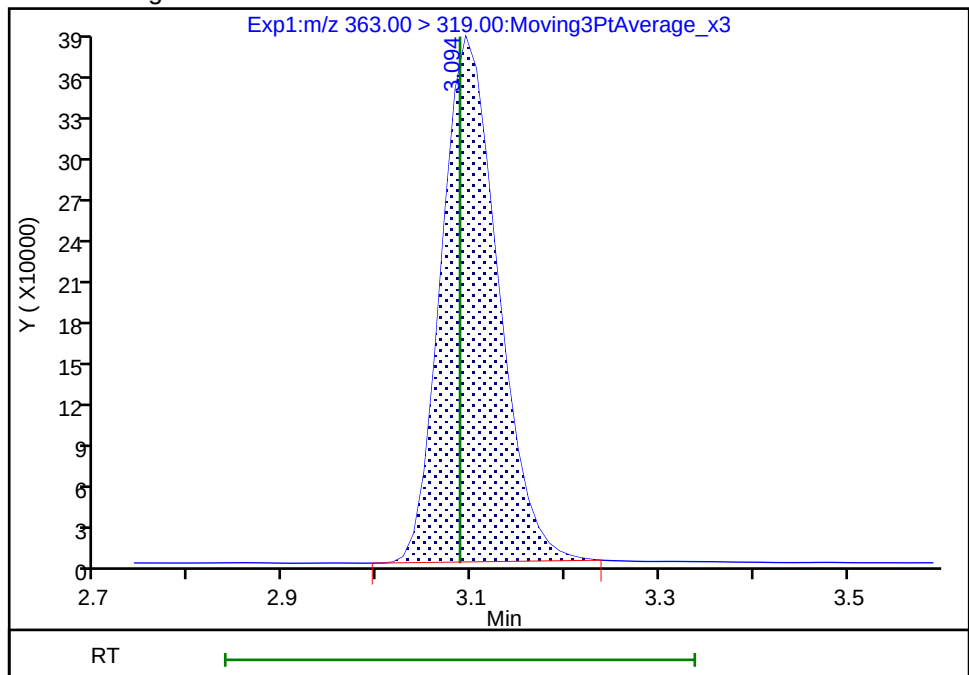
RT: 3.09
Area: 1620102
Amount: 0.961773
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1605735
Amount: 0.953244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

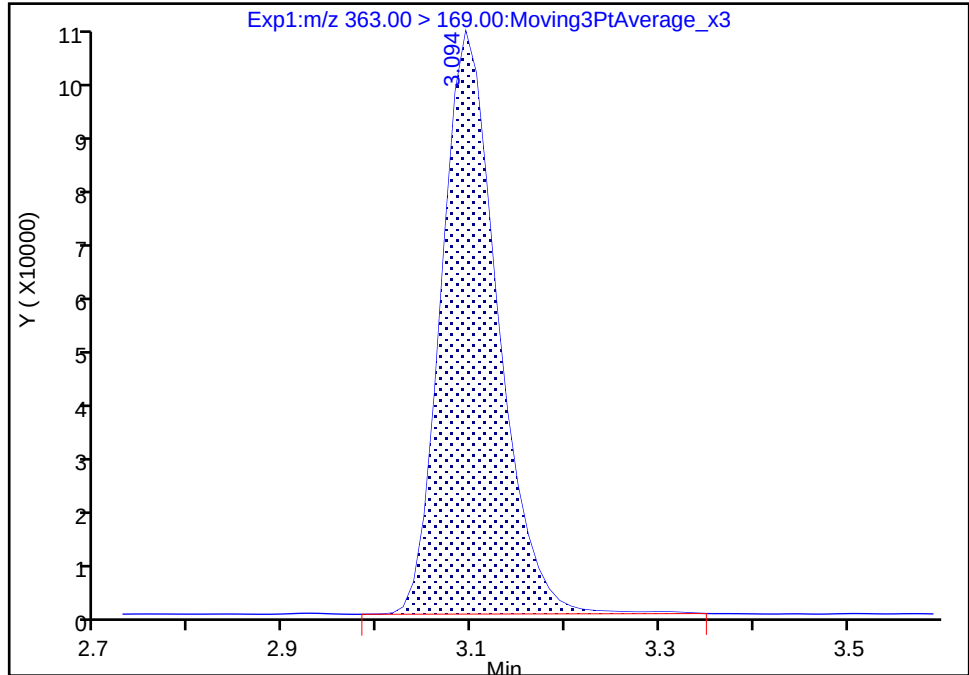
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

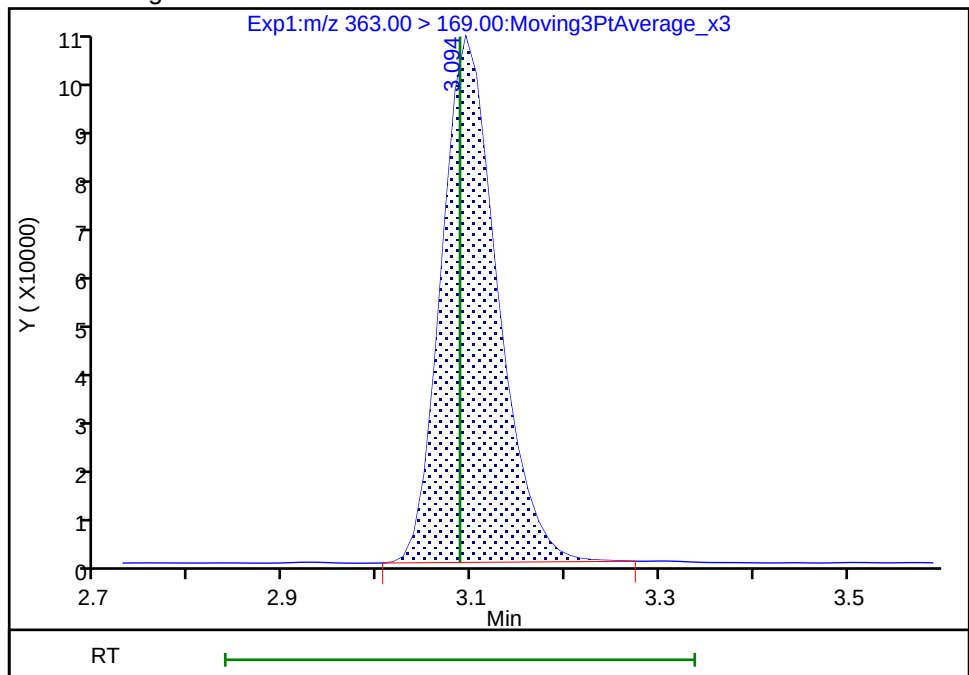
RT: 3.09
Area: 417782
Amount: 0.961773
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 414434
Amount: 0.953244
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 933 of 97811/21/2022
4:10 PM

Eurofins Burlington

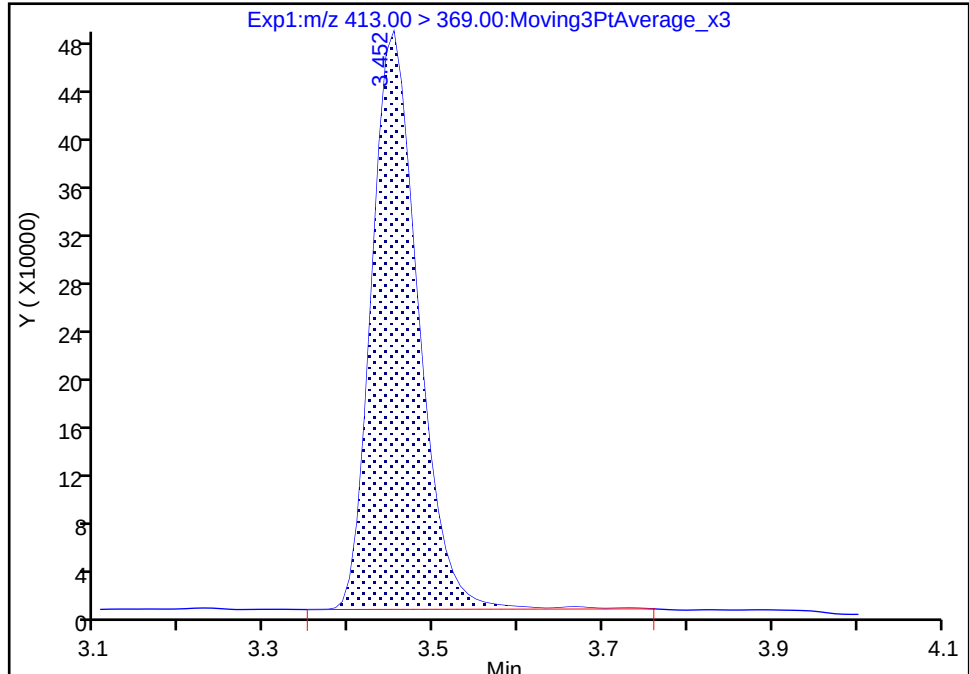
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

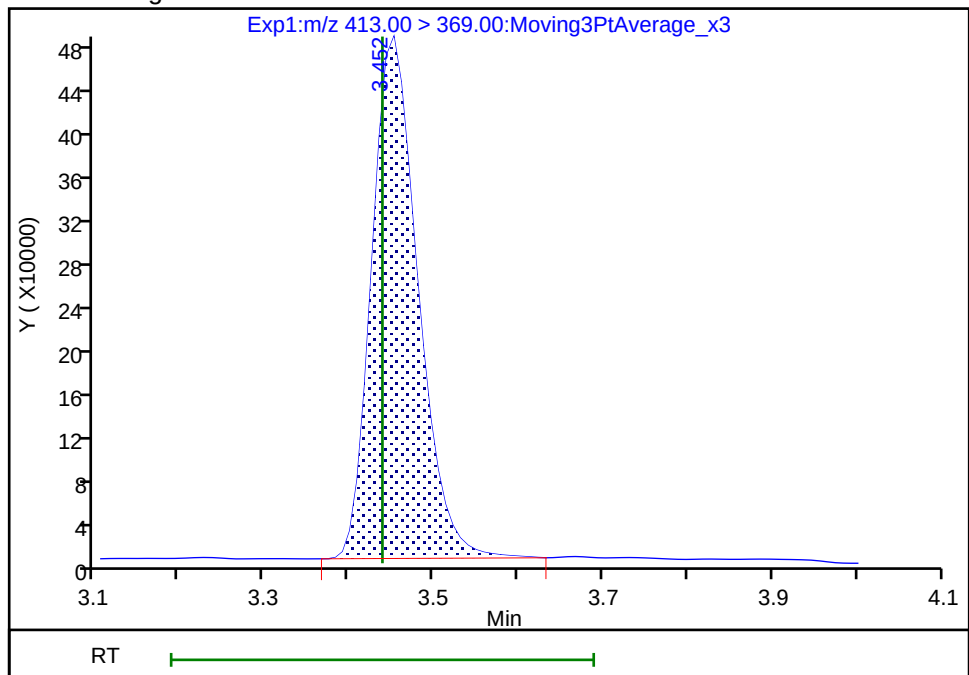
RT: 3.45
Area: 1825046
Amount: 0.964236
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 1813319
Amount: 0.958040
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

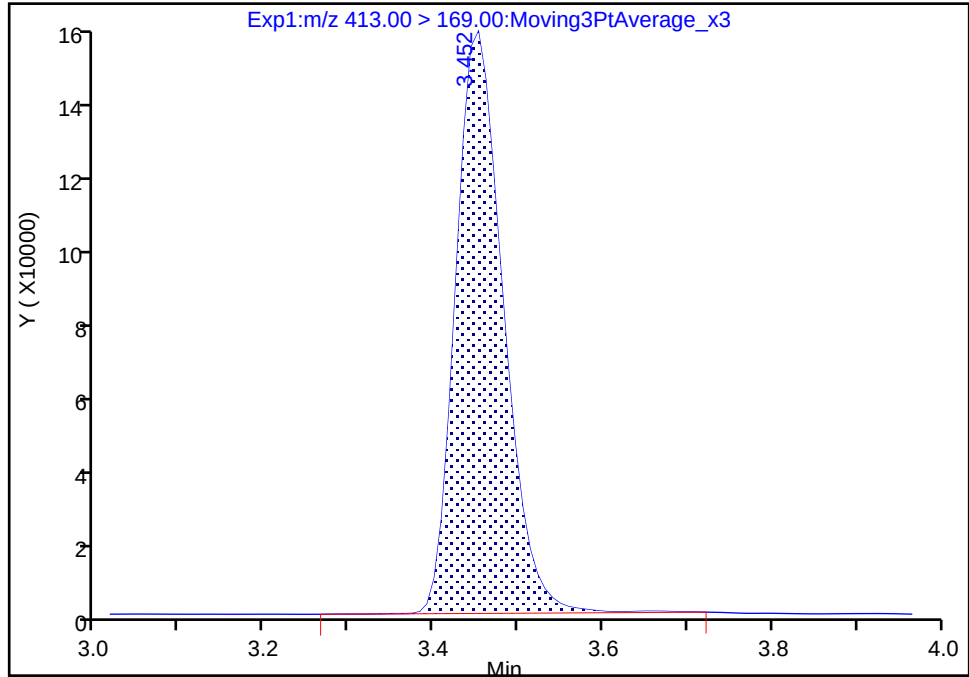
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

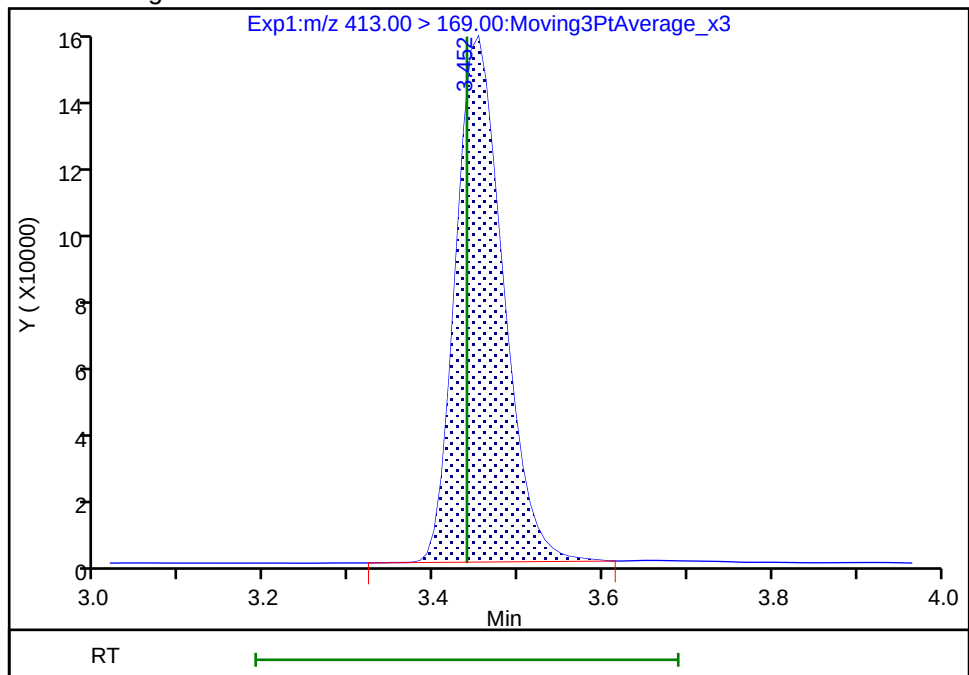
RT: 3.45
Area: 623152
Amount: 0.964236
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 619841
Amount: 0.958040
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 935 of 97811/21/2022
4:10 PM

Eurofins Burlington

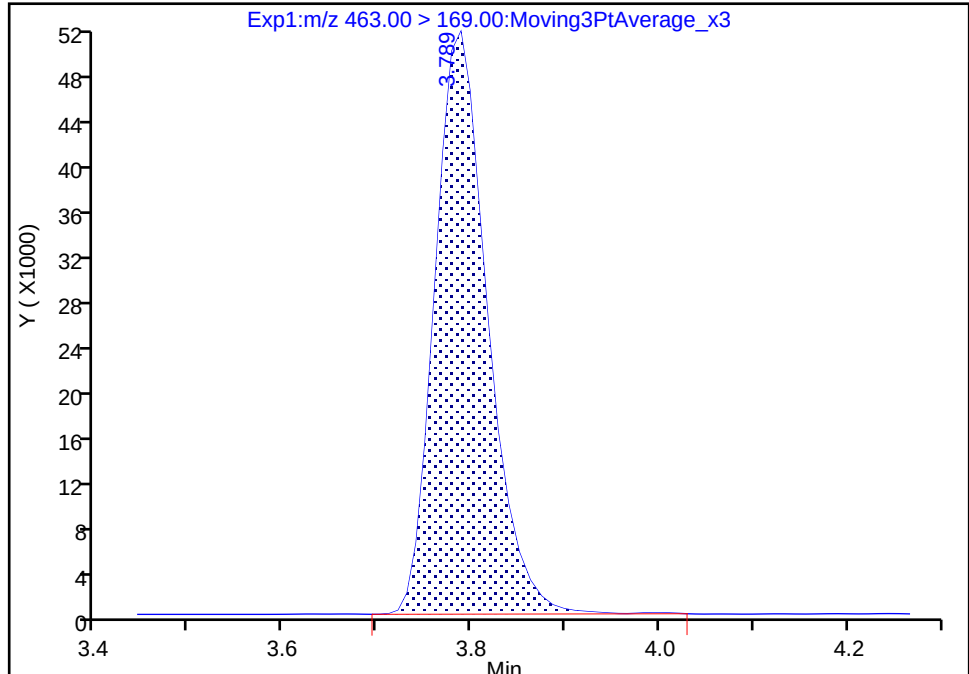
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

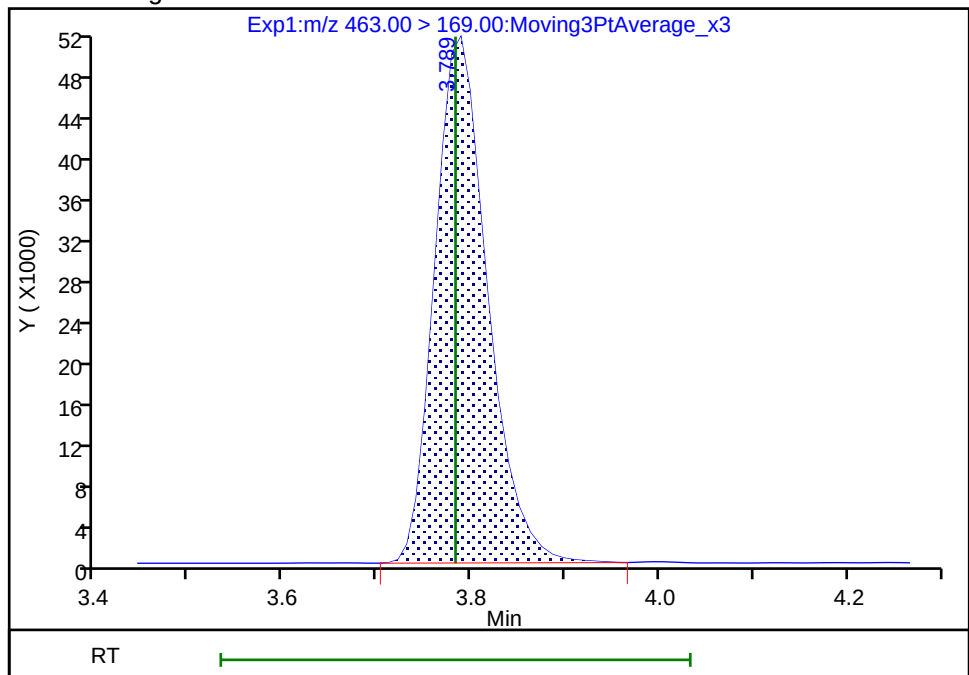
RT: 3.79
Area: 200431
Amount: 0.967036
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 200019
Amount: 0.967036
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

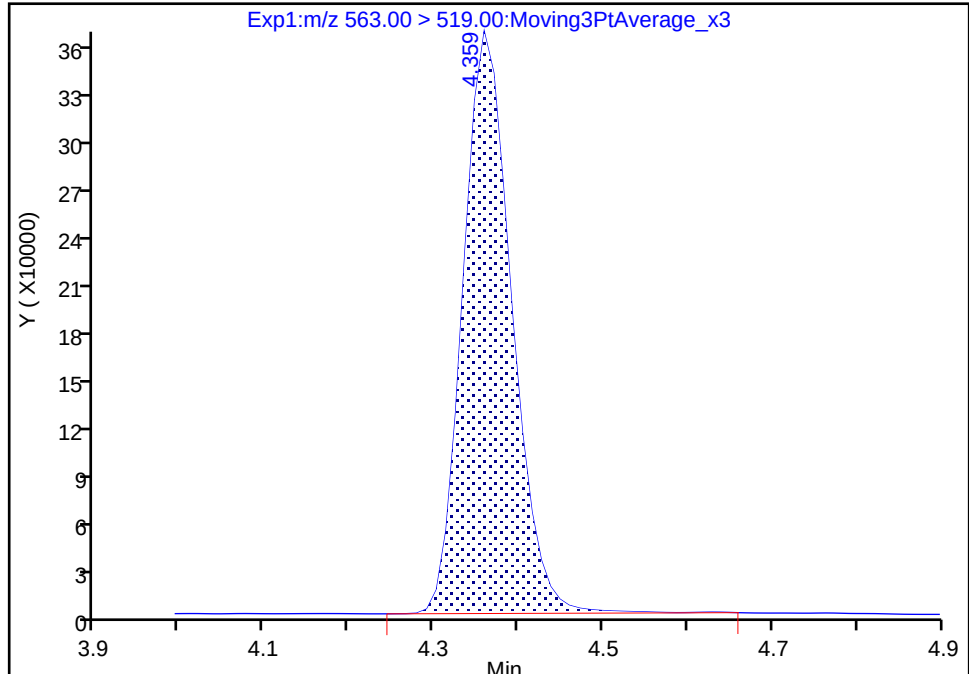
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

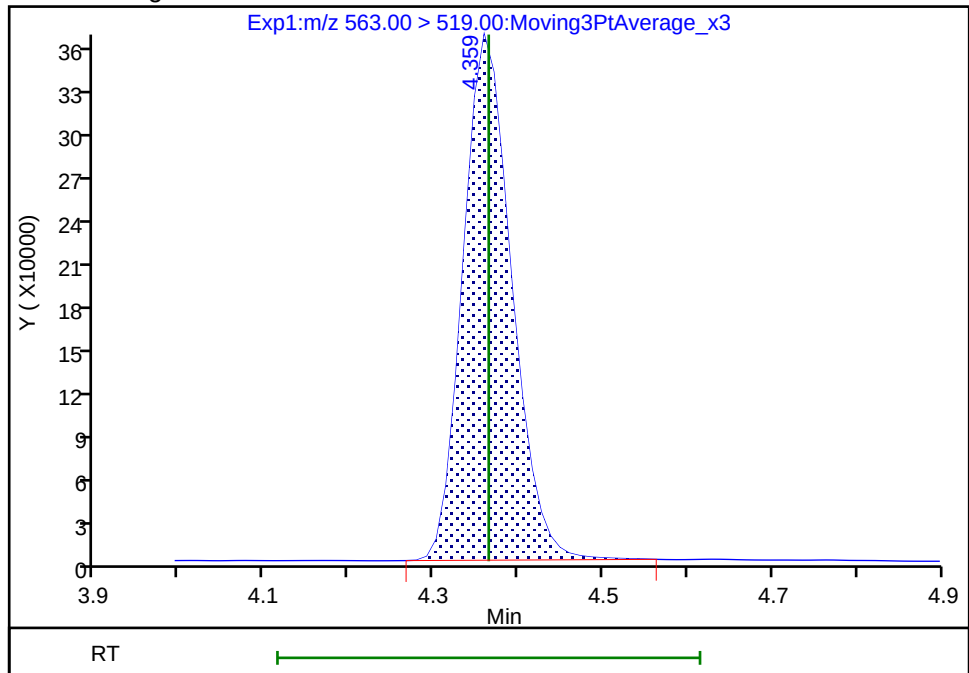
RT: 4.36
Area: 1463280
Amount: 0.948862
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 1457421
Amount: 0.945063
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

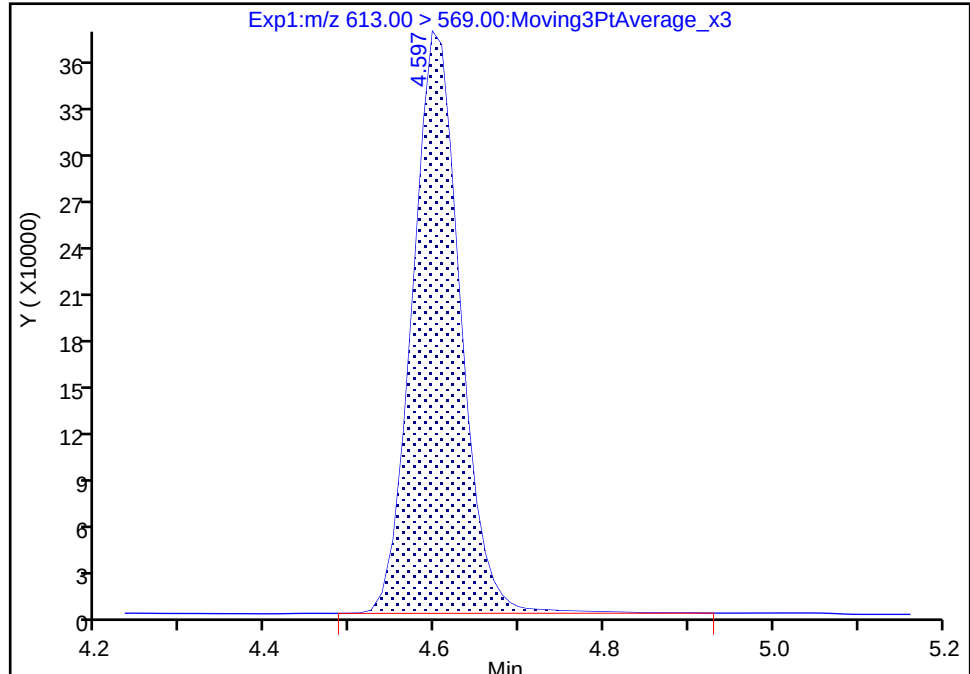
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

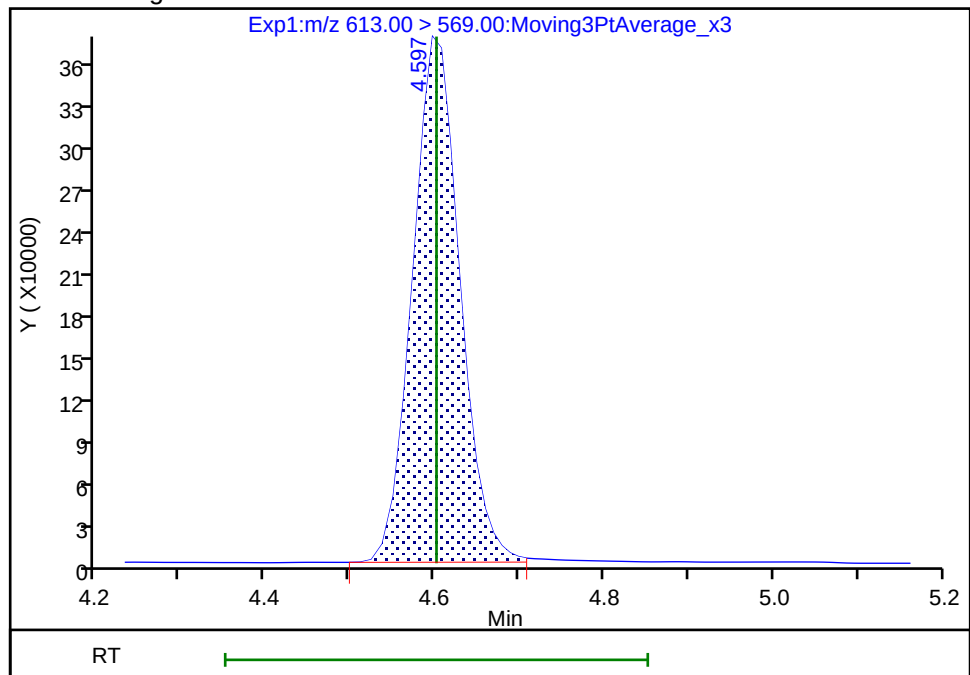
RT: 4.60
Area: 1474253
Amount: 0.999825
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 1461884
Amount: 0.991437
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

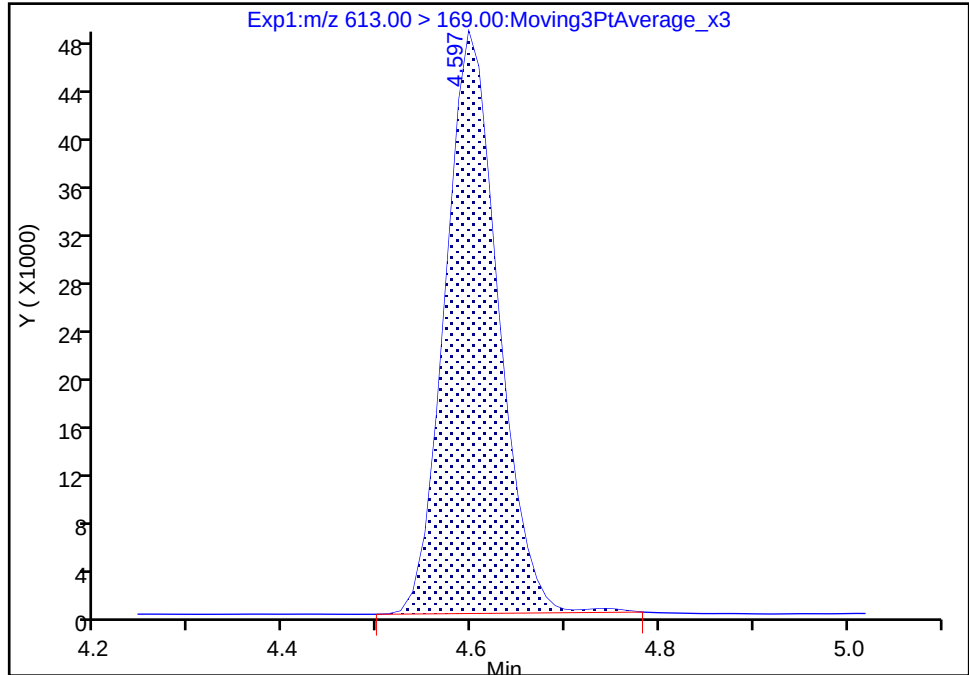
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

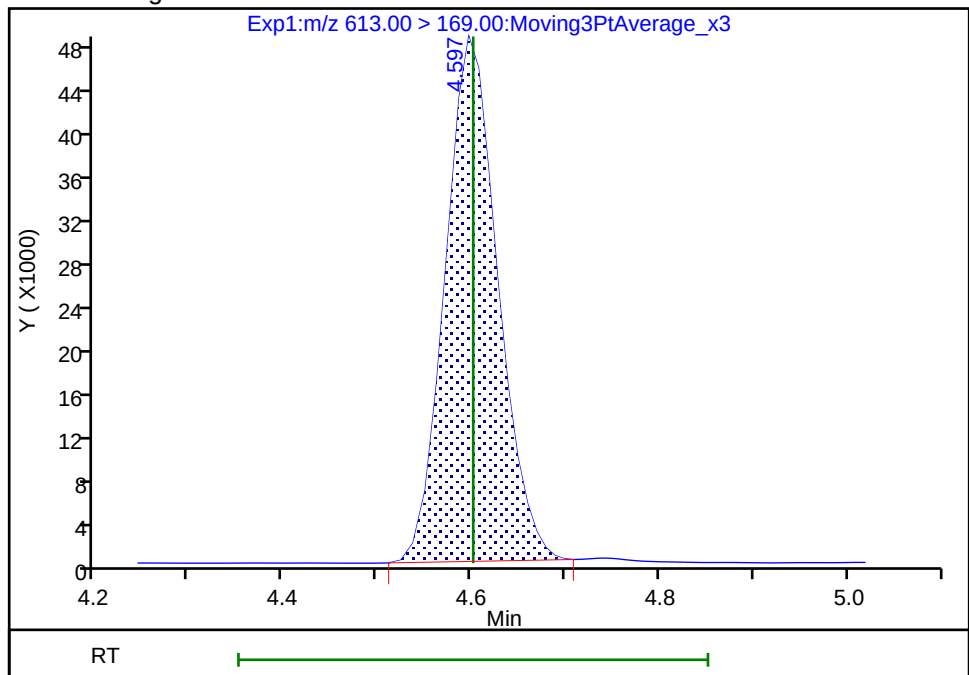
RT: 4.60
Area: 190176
Amount: 0.999825
Amount Units: ng/ml

Processing Integration Results



RT: 4.60
Area: 187956
Amount: 0.991437
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 939 of 97811/21/2022
4:10 PM

Eurofins Burlington

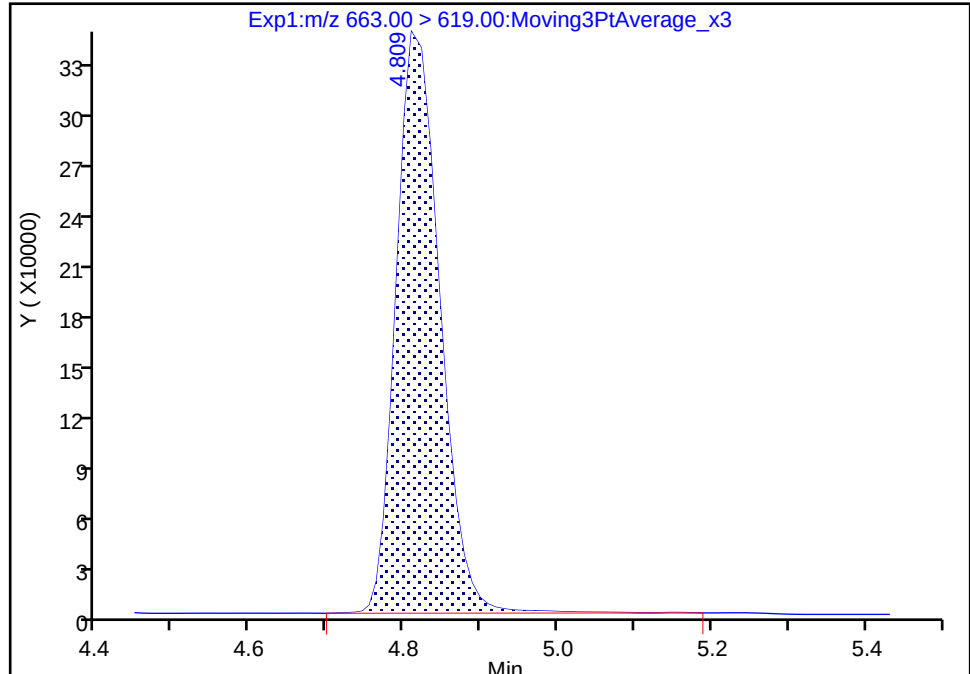
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

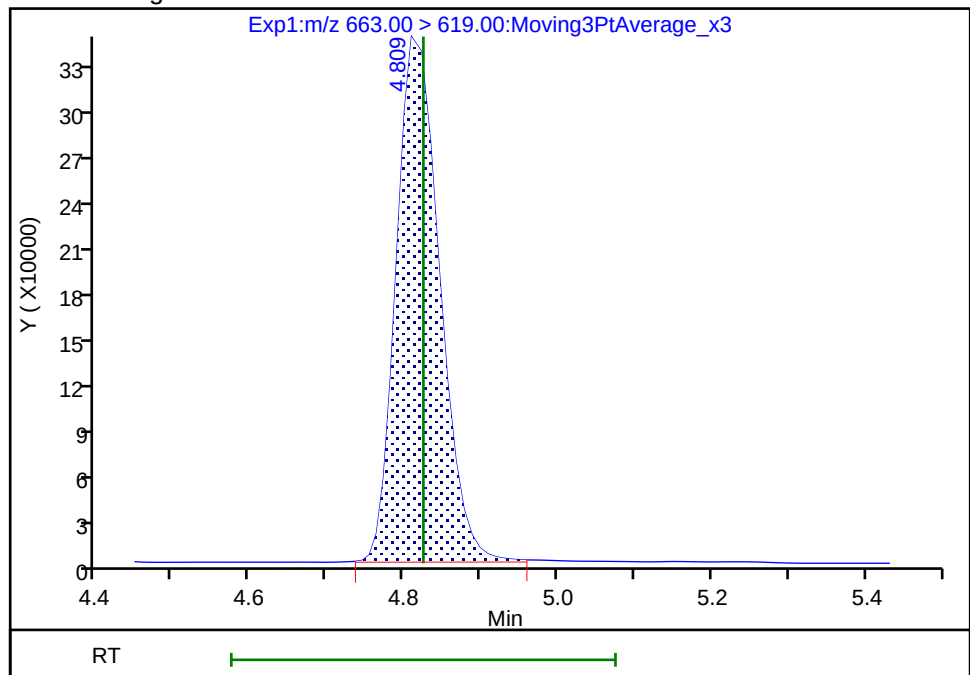
RT: 4.81
Area: 1354613
Amount: 1.002396
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 1347293
Amount: 0.996980
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

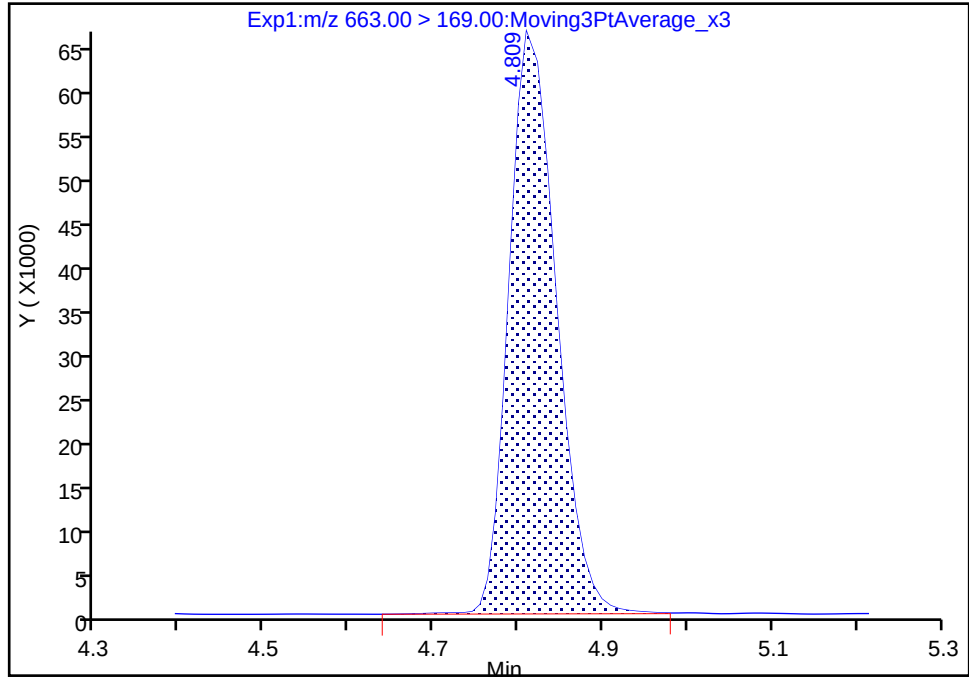
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

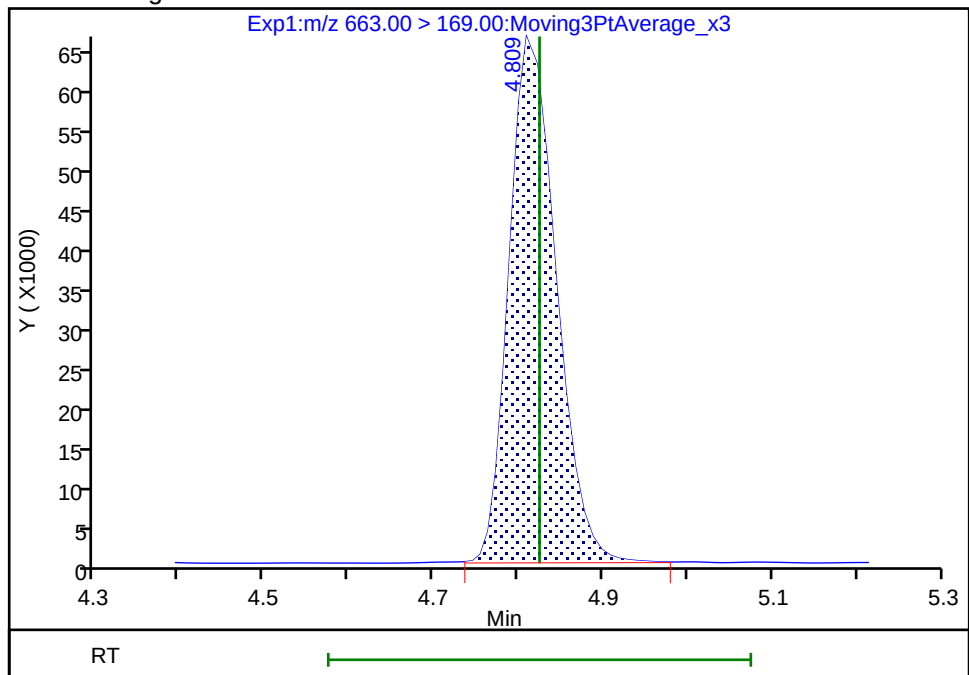
RT: 4.81
Area: 256301
Amount: 1.002396
Amount Units: ng/ml

Processing Integration Results



RT: 4.81
Area: 255907
Amount: 0.996980
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:29:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 941 of 97811/21/2022
4:10 PM

Eurofins Burlington

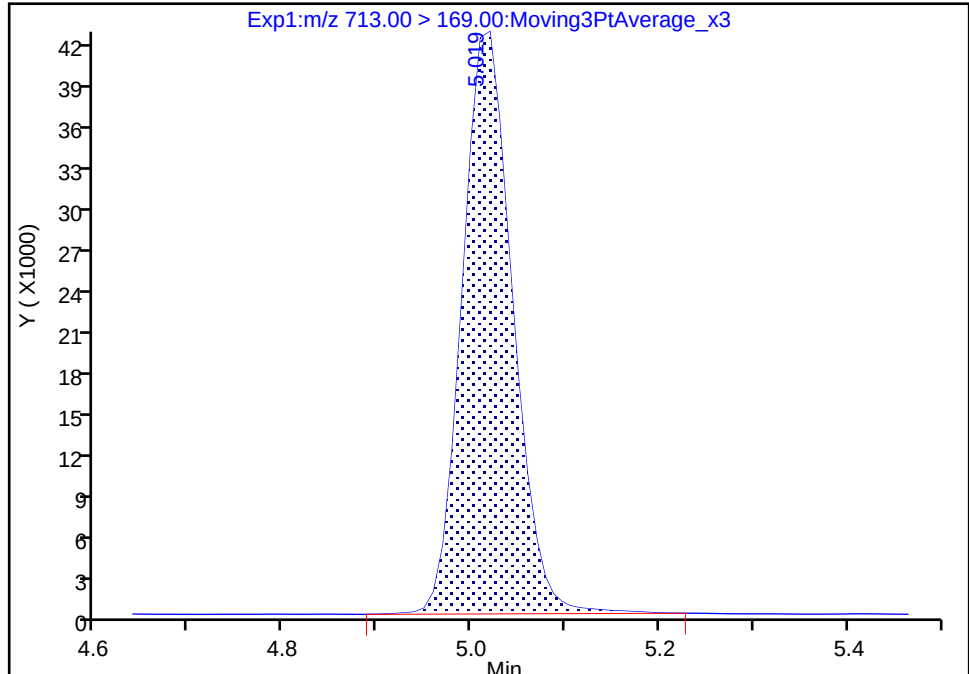
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

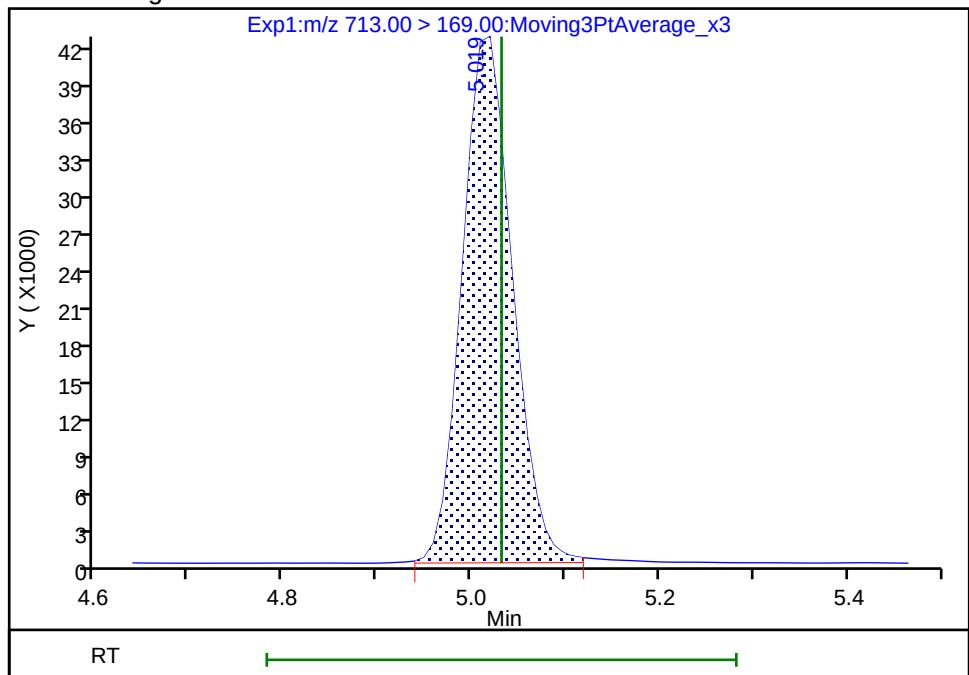
RT: 5.02
Area: 157010
Amount: 0.851456
Amount Units: ng/ml

Processing Integration Results



RT: 5.02
Area: 155955
Amount: 0.845735
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:29:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

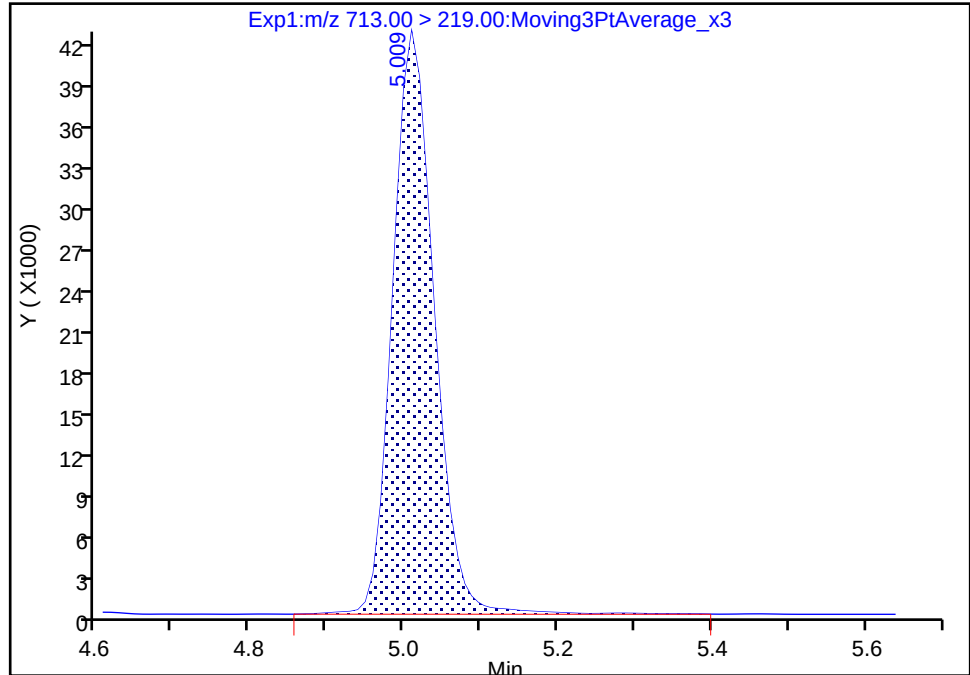
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

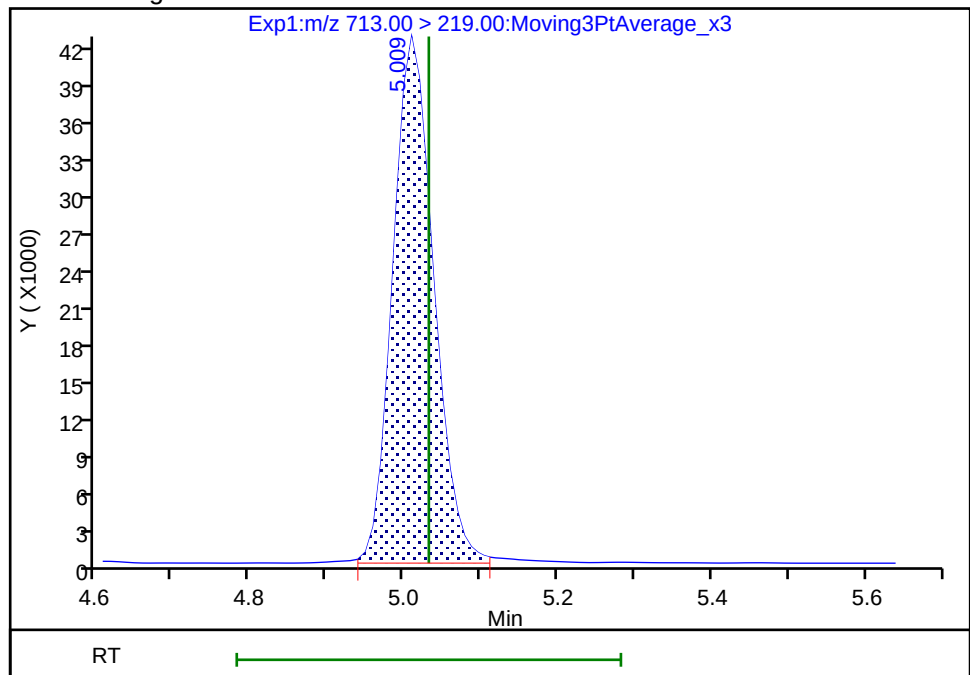
RT: 5.01
Area: 160550
Amount: 0.851456
Amount Units: ng/ml

Processing Integration Results



RT: 5.01
Area: 157979
Amount: 0.845735
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:29:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 943 of 97811/21/2022
4:10 PM

Eurofins Burlington

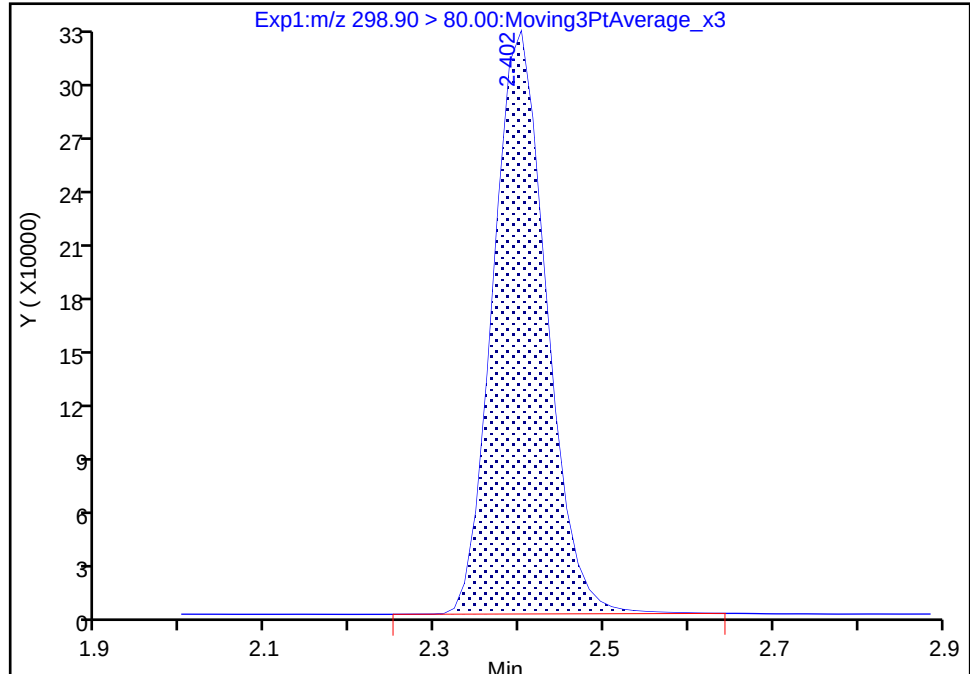
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d		
Injection Date:	16-Nov-2022 21:01:55	Instrument ID:	LC812
Lims ID:	460-268915-A-1-C MSD		
Client ID:	11OC F-1		
Operator ID:	lc812tech	ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

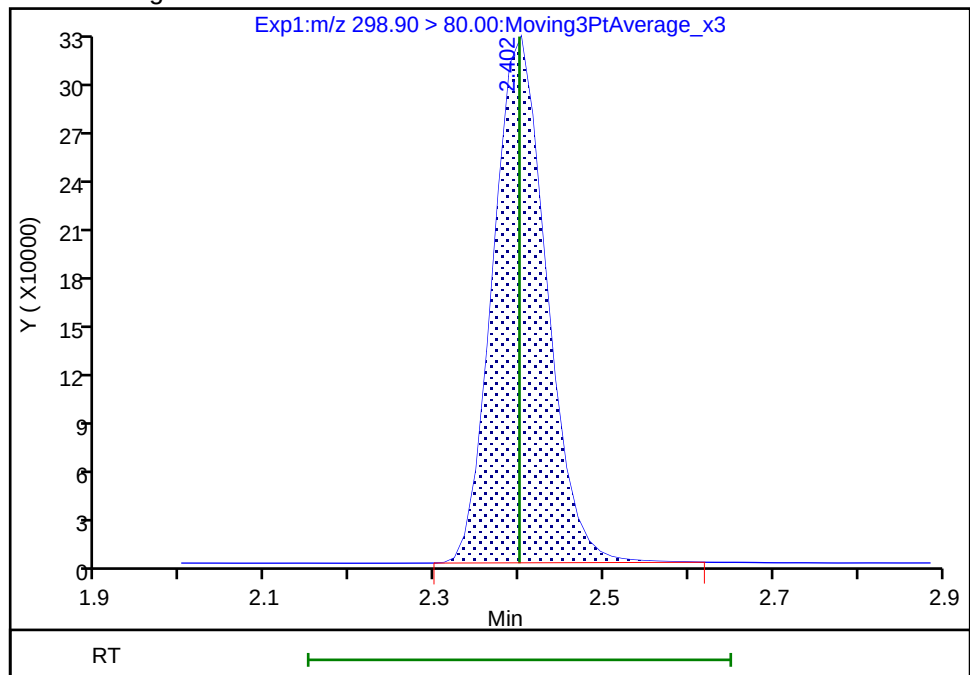
RT: 2.40
Area: 1418132
Amount: 0.836149
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 1417013
Amount: 0.835489
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:25:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

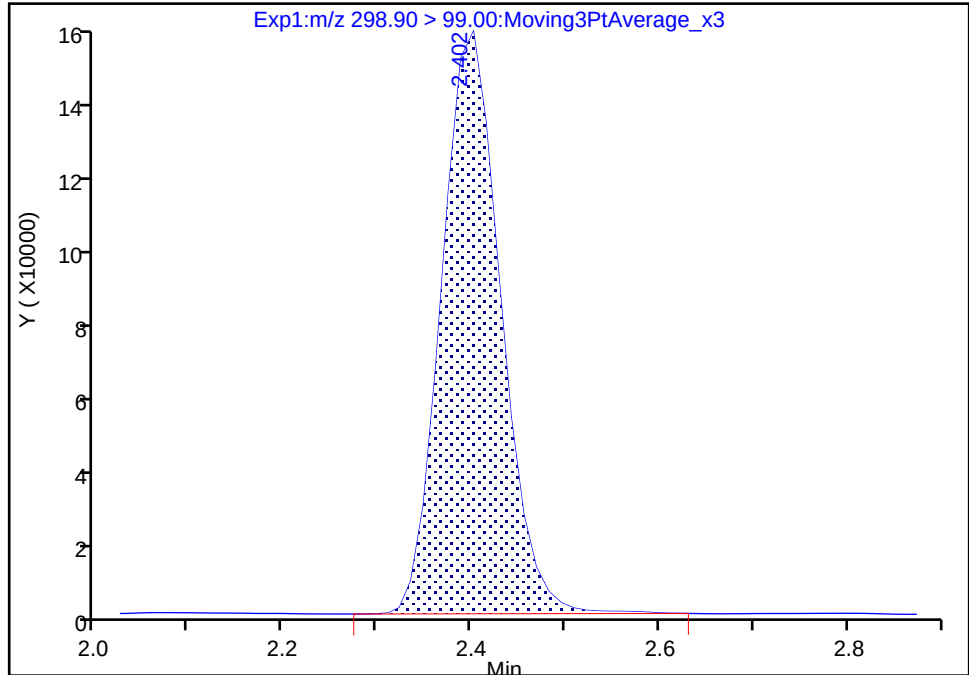
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

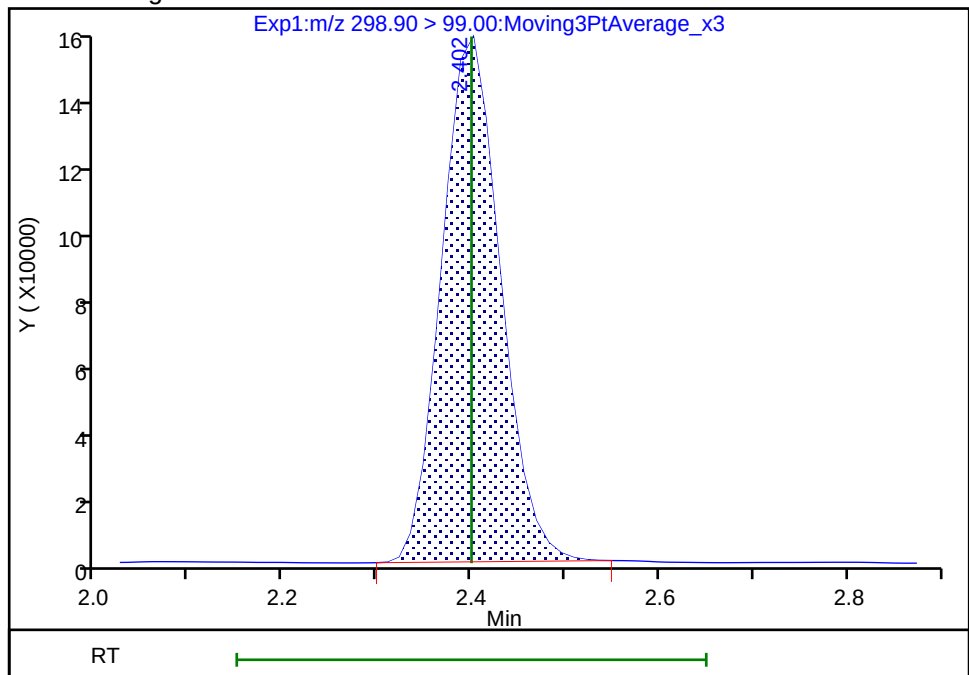
RT: 2.40
Area: 685643
Amount: 0.836149
Amount Units: ng/ml

Processing Integration Results



RT: 2.40
Area: 679443
Amount: 0.835489
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 945 of 97811/21/2022
4:10 PM

Eurofins Burlington

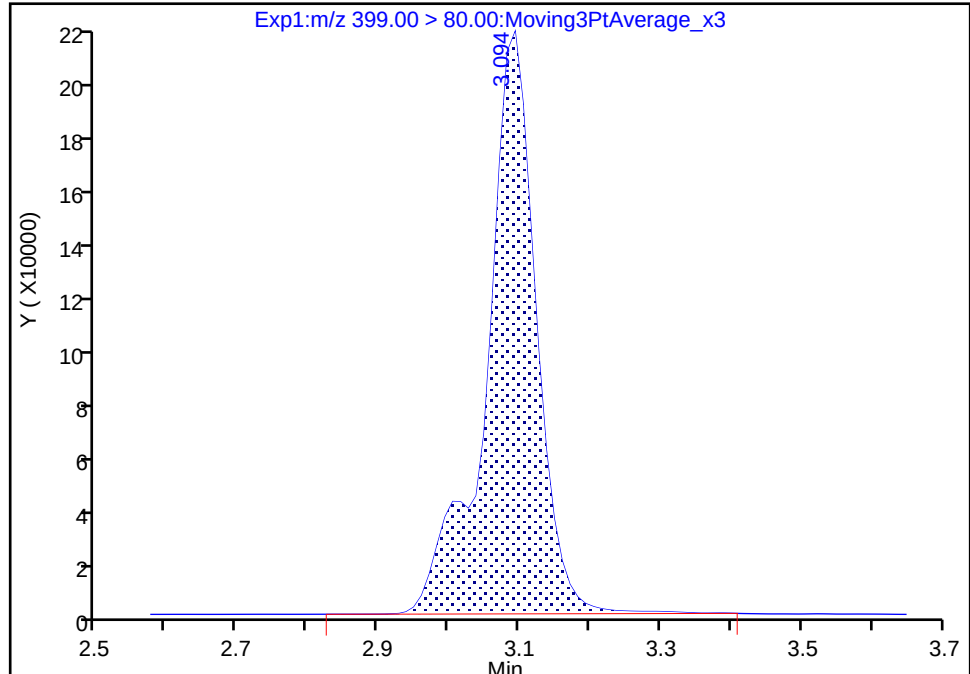
Data File:	\\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d		
Injection Date:	16-Nov-2022 21:01:55	Instrument ID:	LC812
Lims ID:	460-268915-A-1-C MSD		
Client ID:	11OC F-1		
Operator ID:	lc812tech	ALS Bottle#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	8

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

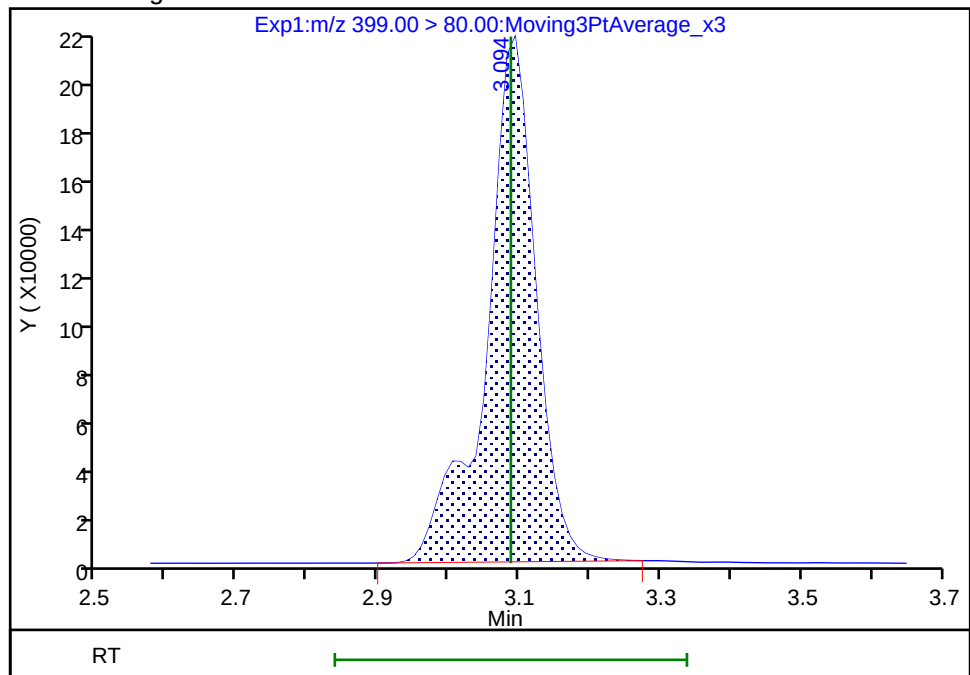
RT: 3.09
Area: 1084522
Amount: 0.840536
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 1072727
Amount: 0.831394
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

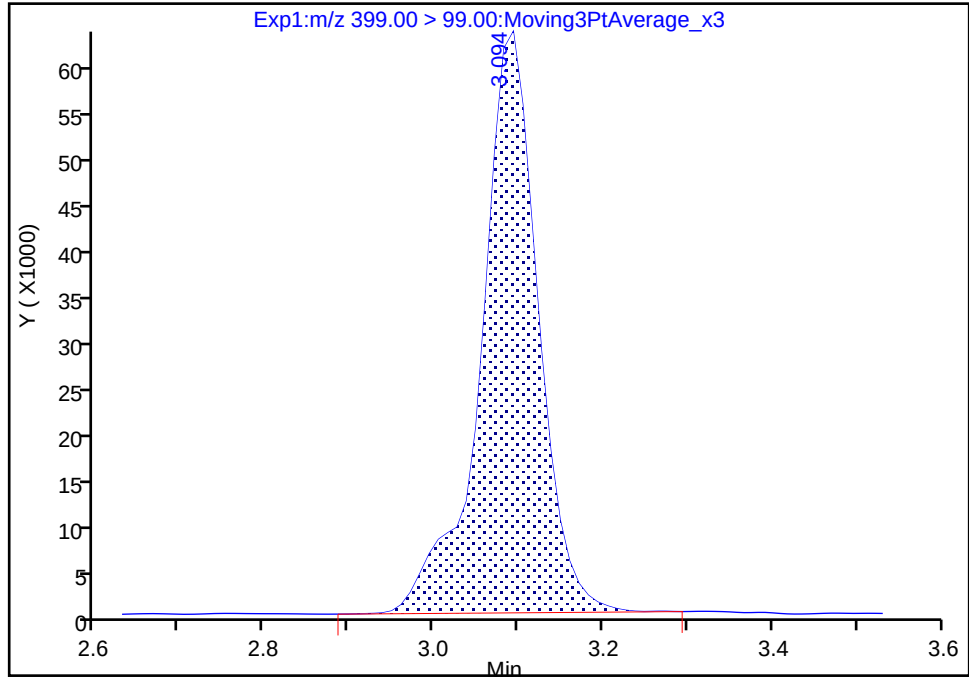
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

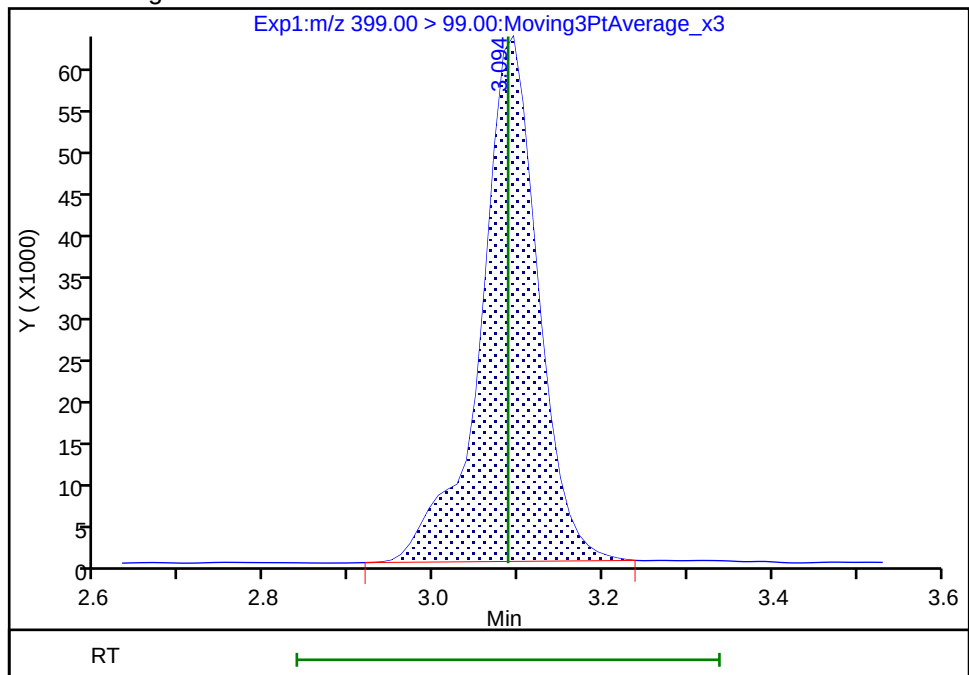
RT: 3.09
Area: 296719
Amount: 0.840536
Amount Units: ng/ml

Processing Integration Results



RT: 3.09
Area: 295536
Amount: 0.831394
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 947 of 97811/21/2022
4:10 PM

Eurofins Burlington

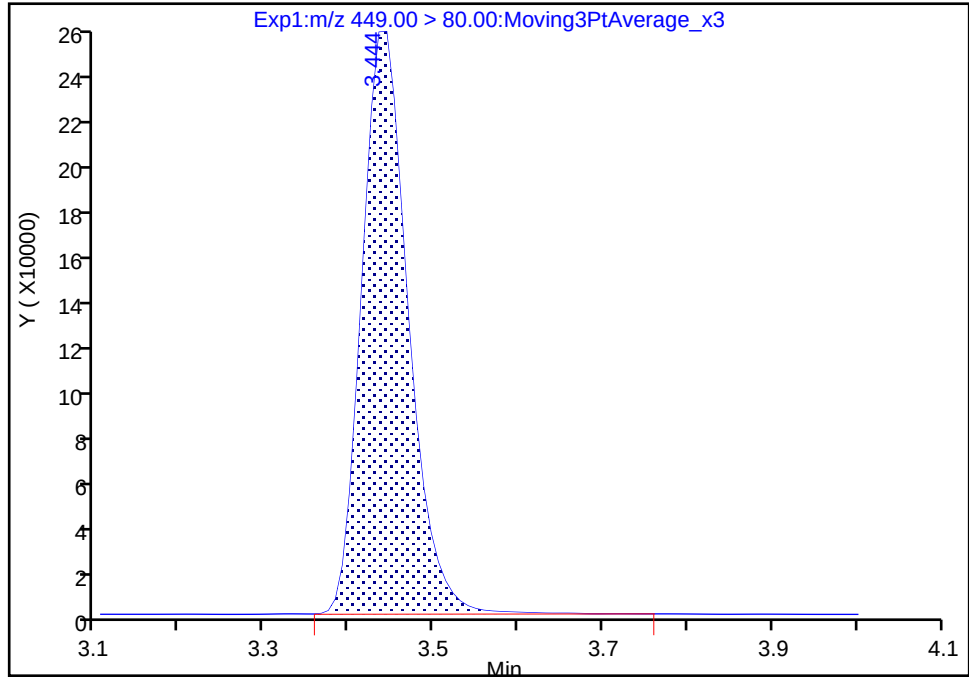
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

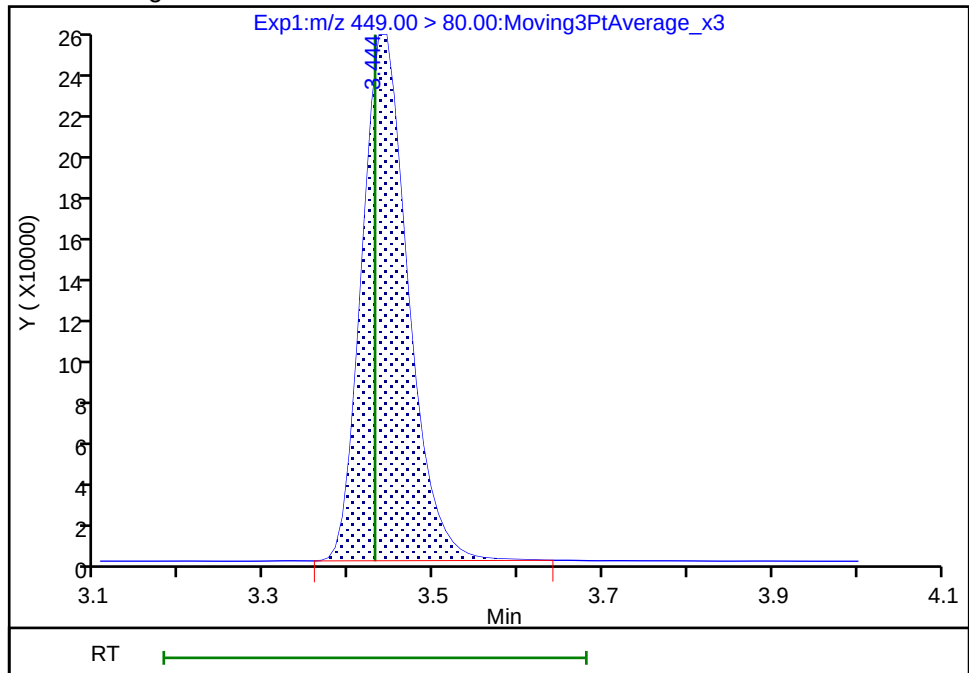
RT: 3.44
Area: 961409
Amount: 0.926605
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 957254
Amount: 0.922600
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:26:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

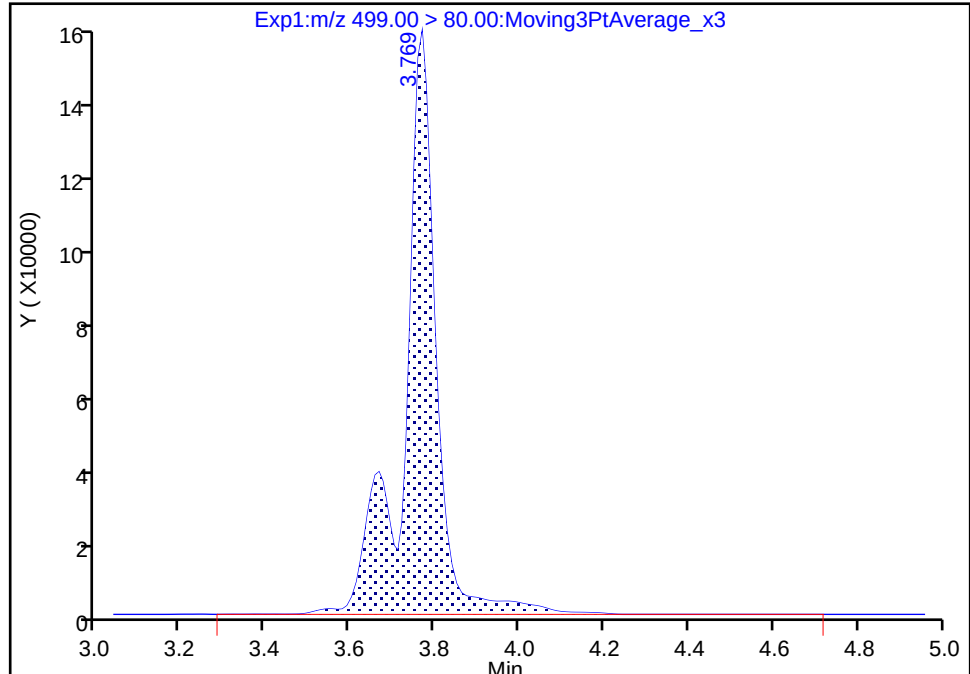
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

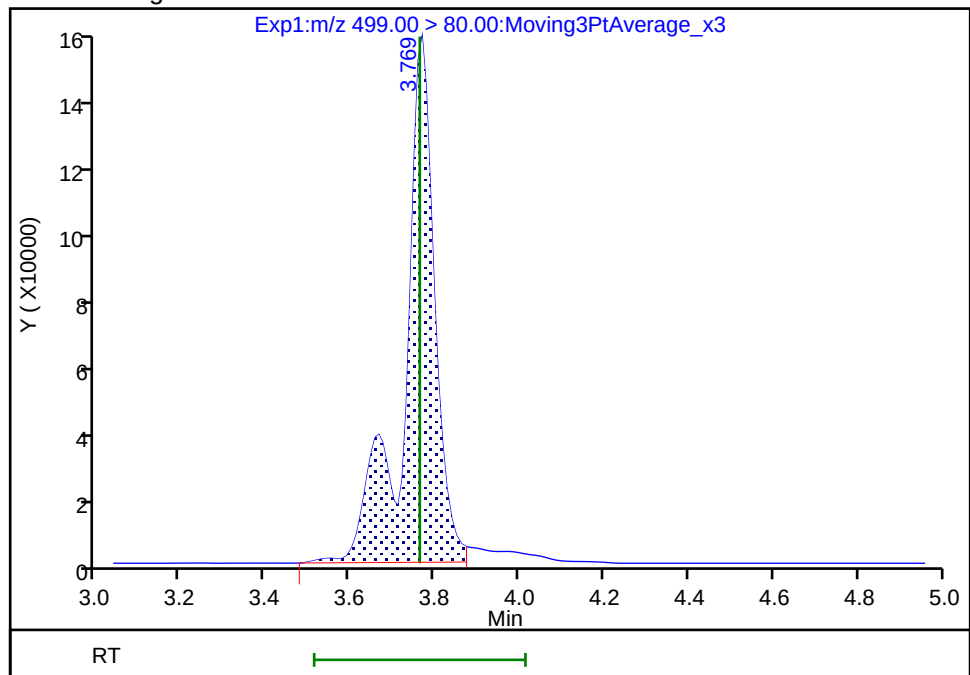
RT: 3.77
Area: 837073
Amount: 0.935597
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 787361
Amount: 0.880034
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

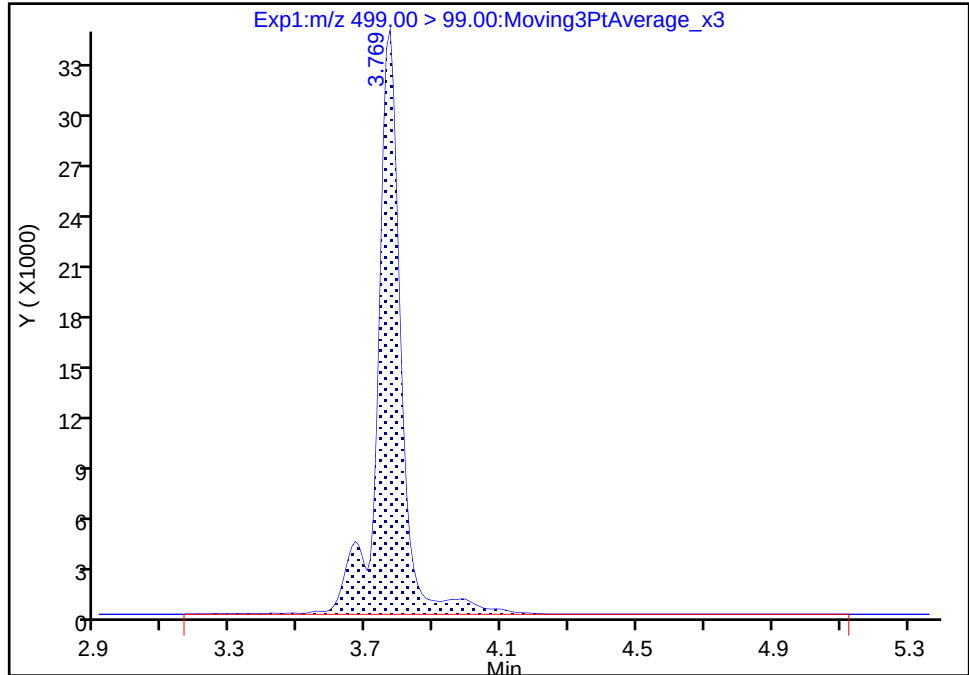
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

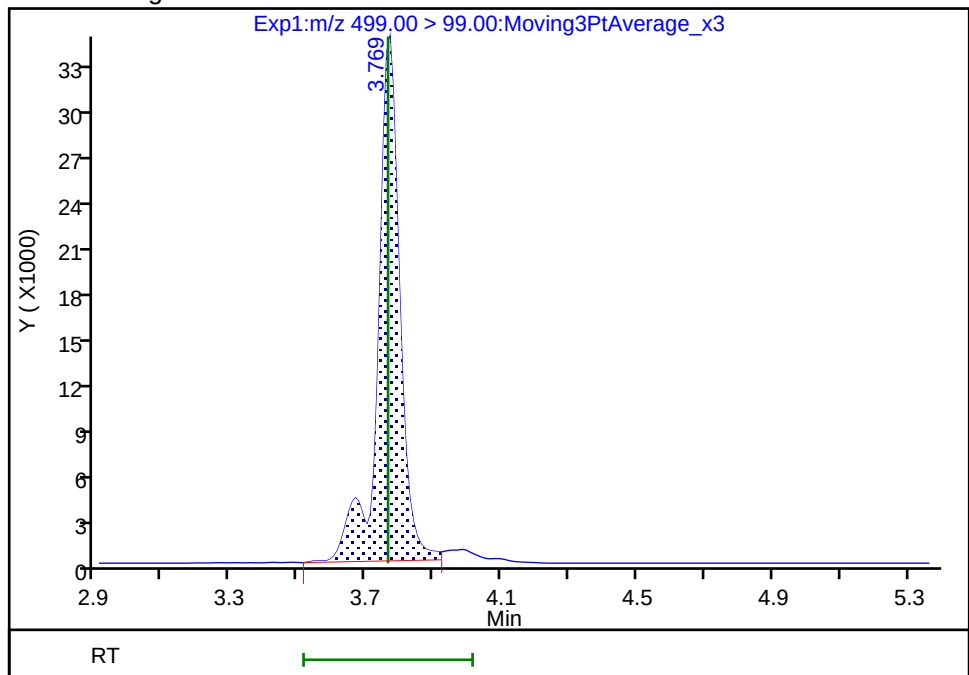
RT: 3.77
Area: 167731
Amount: 0.935597
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 156639
Amount: 0.880034
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

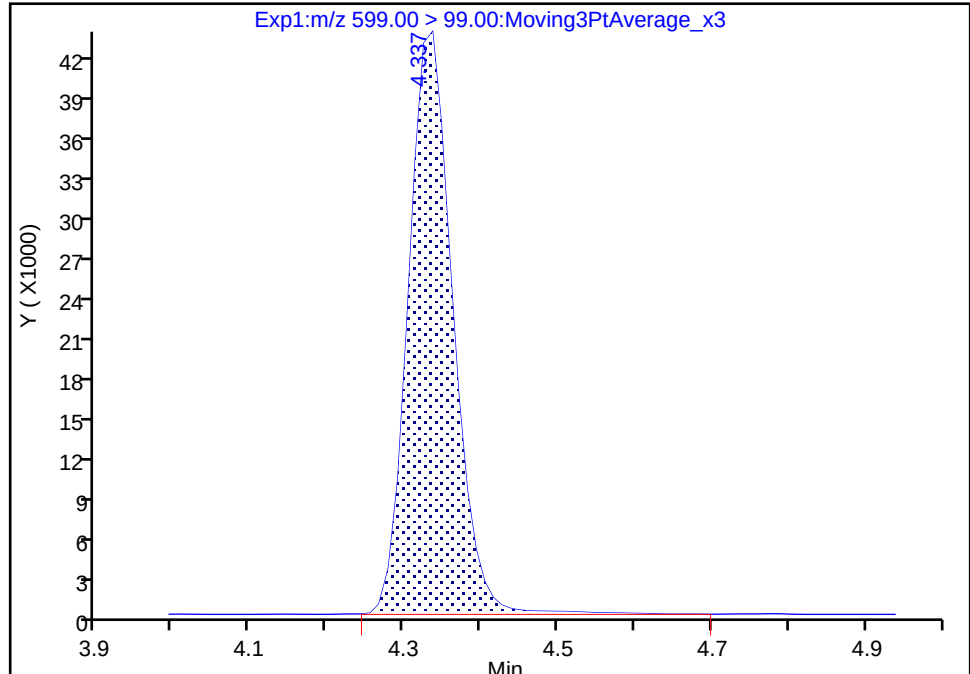
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

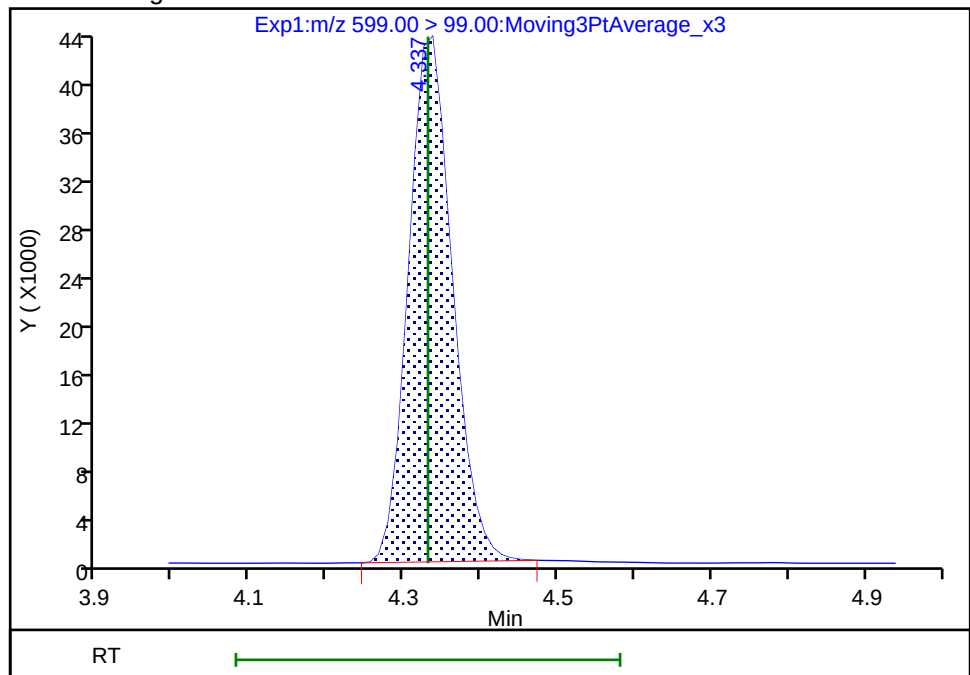
RT: 4.34
Area: 175158
Amount: 0.896253
Amount Units: ng/ml

Processing Integration Results



RT: 4.34
Area: 171913
Amount: 0.896253
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

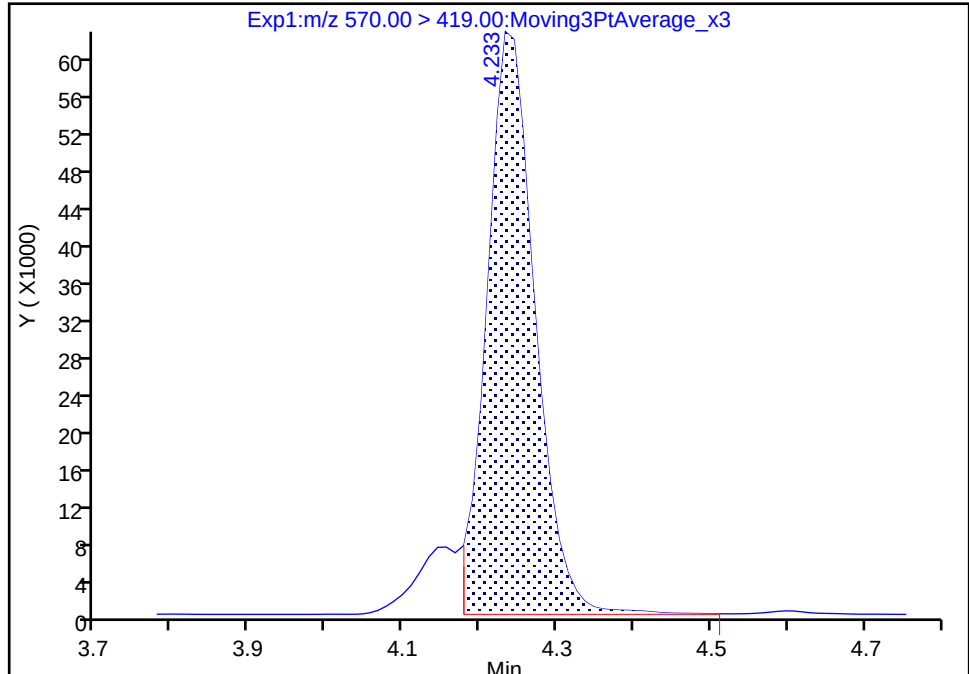
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

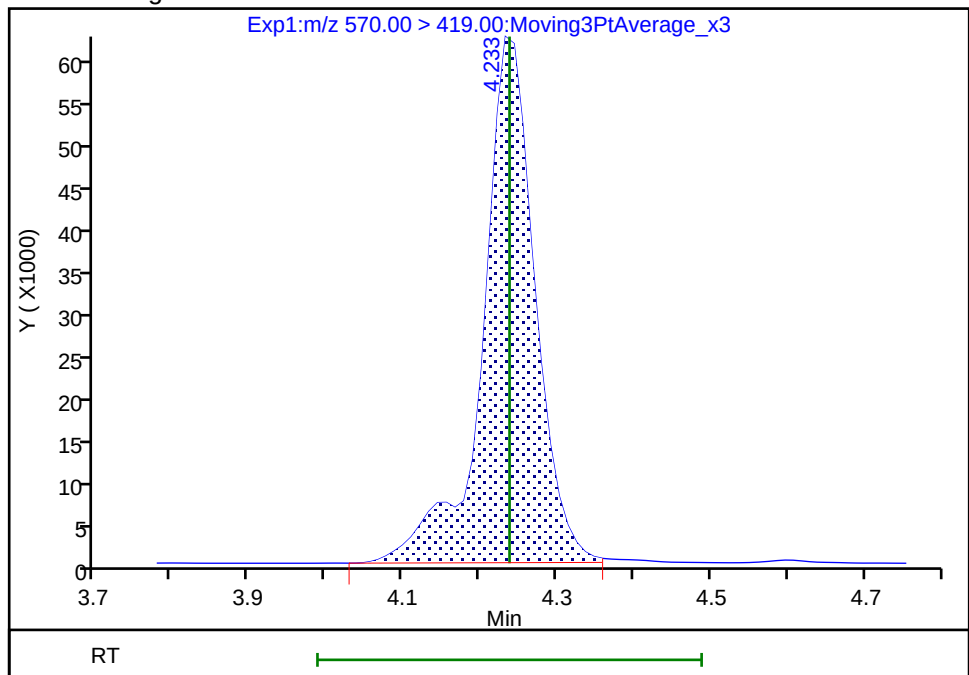
RT: 4.23
Area: 271387
Amount: 0.888881
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 298036
Amount: 0.976165
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

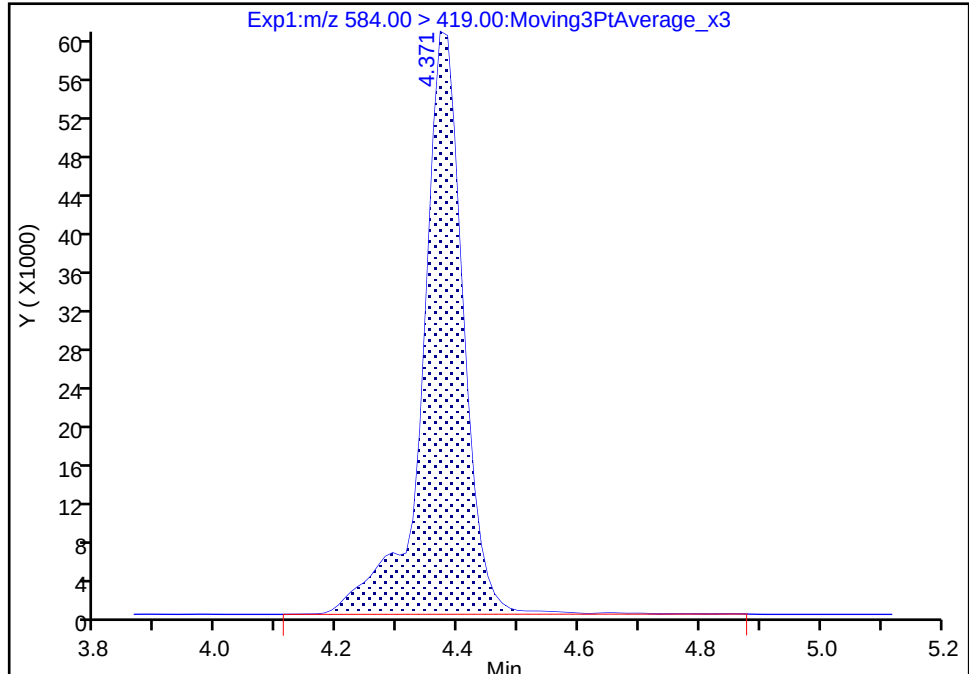
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

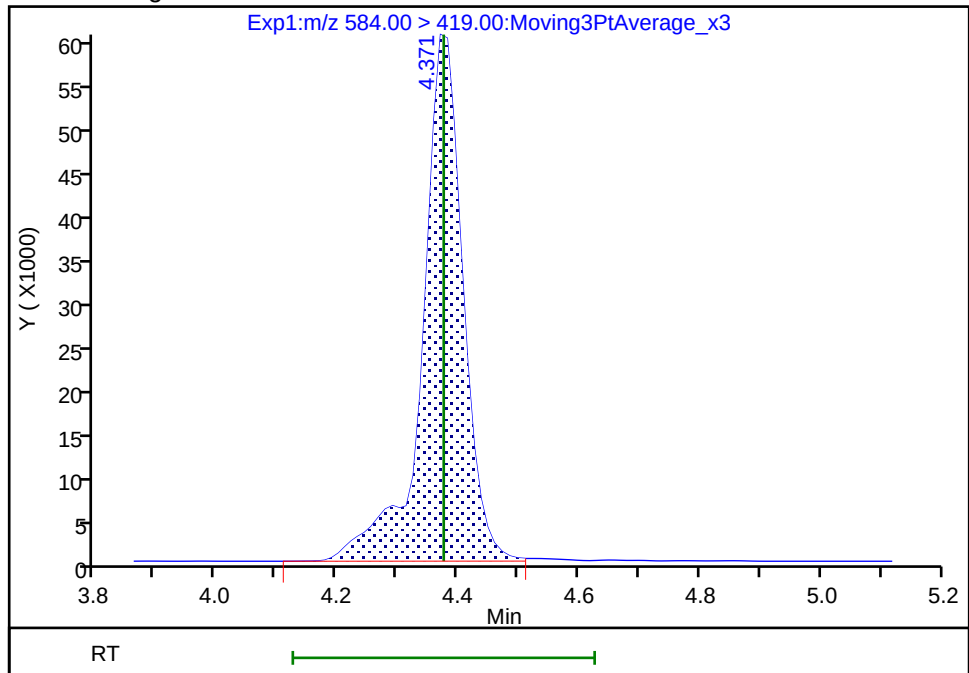
RT: 4.37
Area: 284696
Amount: 0.975035
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 282791
Amount: 0.968511
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:28:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

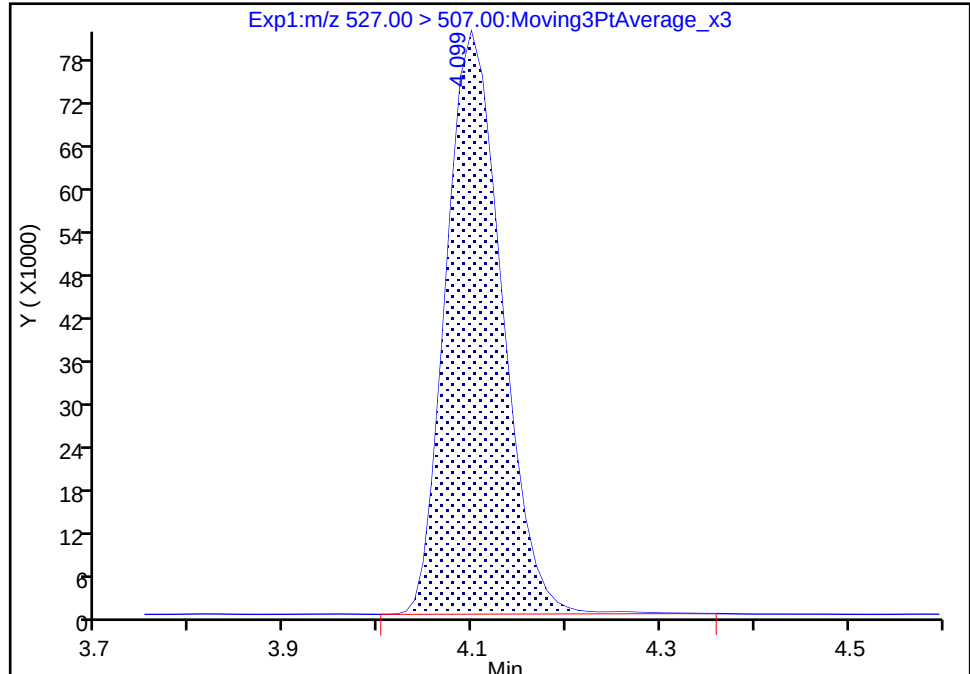
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

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

Signal: 1

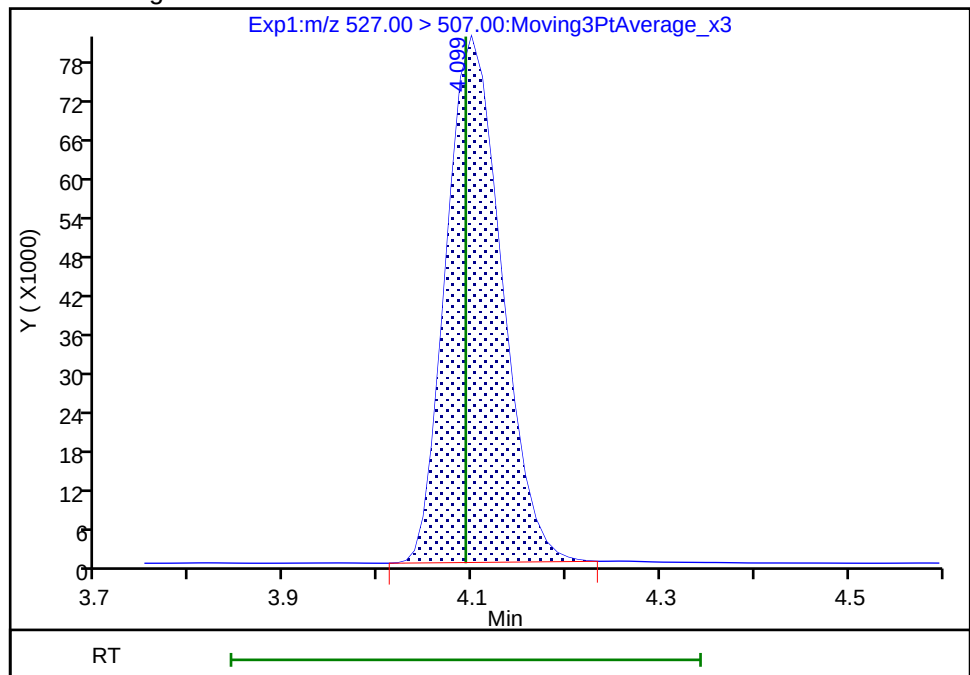
RT: 4.10
Area: 337541
Amount: 1.190246
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 335118
Amount: 1.181702
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:27:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Burlington

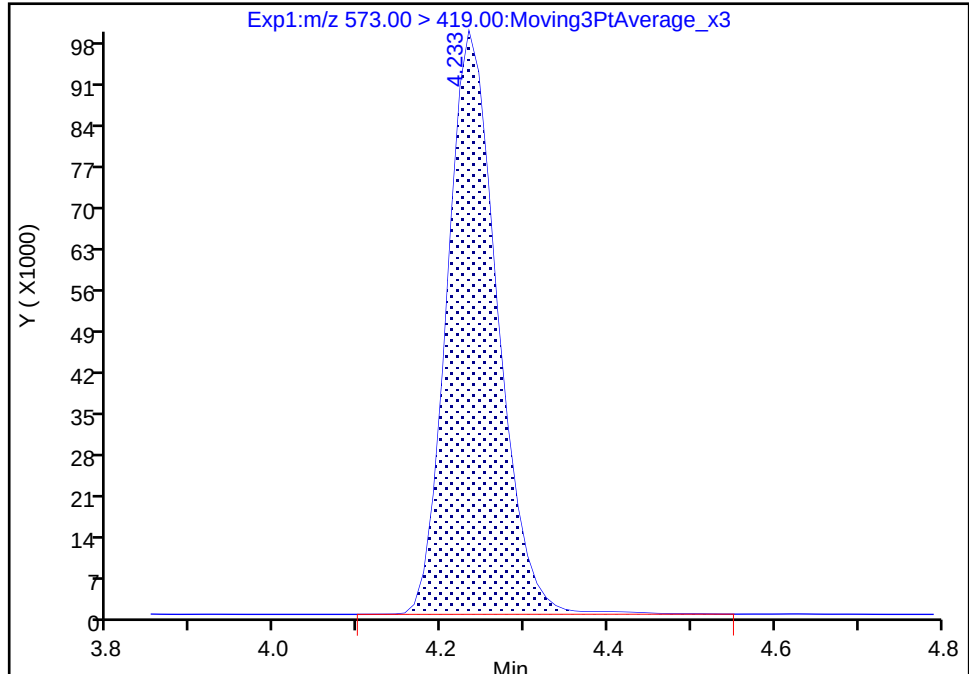
Data File: \\chromfs\Burlington\ChromData\LC812\20221116-53360.b\PA221116D08.d
Injection Date: 16-Nov-2022 21:01:55 Instrument ID: LC812
Lims ID: 460-268915-A-1-C MSD
Client ID: 11OC F-1
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

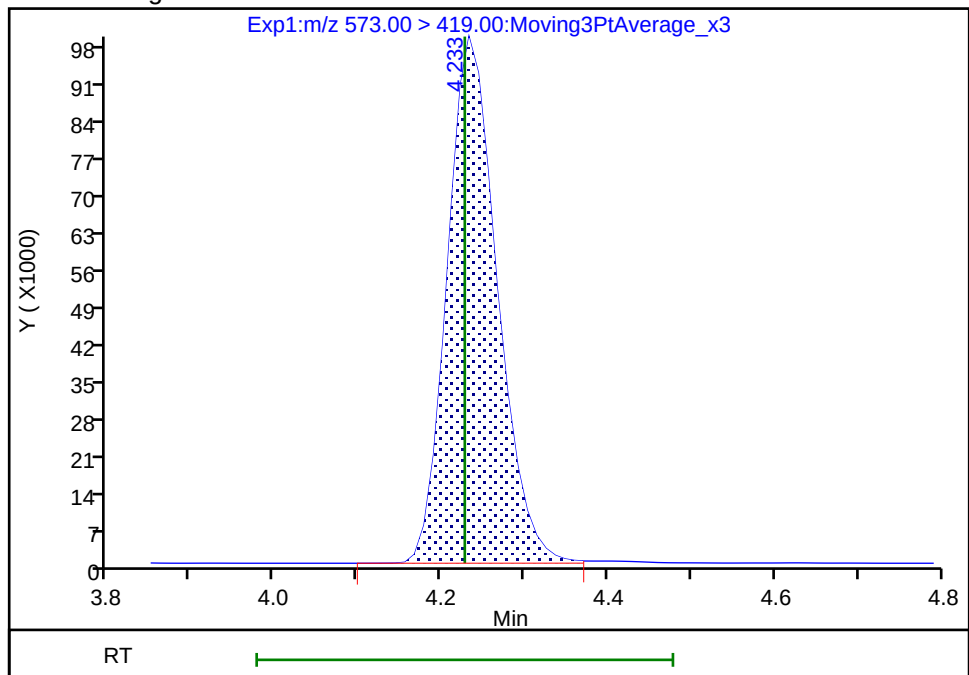
RT: 4.23
Area: 414540
Amount: 1.597703
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 412675
Amount: 1.590515
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 17-Nov-2022 14:25:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Instrument ID: LC812 Start Date: 09/14/2022 10:00

Analysis Batch Number: 183540 End Date: 09/14/2022 11:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/14/2022 10:00	1		C-18 4.6 (mm)
ZZZZZ		09/14/2022 10:09	1		C-18 4.6 (mm)
ZZZZZ		09/14/2022 10:17	1		C-18 4.6 (mm)
ZZZZZ		09/14/2022 10:25	1		C-18 4.6 (mm)
IC 200-183540/5		09/14/2022 10:33	1	PA220914ICAL05. d	C-18 4.6 (mm)
IC 200-183540/6		09/14/2022 10:41	1	PA220914ICAL06. d	C-18 4.6 (mm)
IC 200-183540/7		09/14/2022 10:50	1	PA220914ICAL07. d	C-18 4.6 (mm)
ICIS 200-183540/8		09/14/2022 10:58	1	PA220914ICAL08. d	C-18 4.6 (mm)
IC 200-183540/9		09/14/2022 11:06	1	PA220914ICAL09. d	C-18 4.6 (mm)
IC 200-183540/10		09/14/2022 11:14	1	PA220914ICAL10. d	C-18 4.6 (mm)
ICB 200-183540/11		09/14/2022 11:22	1	PA220914ICAL11. d	C-18 4.6 (mm)
ICV 200-183540/12		09/14/2022 11:30	1	PA220914ICAL12. d	C-18 4.6 (mm)
ZZZZZ		09/14/2022 11:39	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins BurlingtonJob No.: 460-269226-1

SDG No.: _____

Instrument ID: LC812Start Date: 11/16/2022 09:02Analysis Batch Number: 185818End Date: 11/16/2022 13:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/16/2022 09:02	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 09:10	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 09:18	1		C-18 4.6 (mm)
CCB 200-185818/4		11/16/2022 09:26	1	PA221116A04.d	C-18 4.6 (mm)
CCVLIS 200-185818/5		11/16/2022 09:34	1	PA221116A05.d	C-18 4.6 (mm)
ZZZZZ		11/16/2022 09:42	50		C-18 4.6 (mm)
ZZZZZ		11/16/2022 09:51	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 09:59	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:07	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:15	1		C-18 4.6 (mm)
CCV 200-185818/11		11/16/2022 10:23	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:32	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:40	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:48	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 10:56	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:04	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:12	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:21	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:29	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:37	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:45	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 11:53	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:01	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:10	1		C-18 4.6 (mm)
CCV 200-185818/25		11/16/2022 12:18	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:26	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:34	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:42	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:50	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 12:59	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 13:07	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 13:15	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 13:23	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 13:31	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 13:40	1		C-18 4.6 (mm)
CCV 200-185818/36		11/16/2022 13:48	1		C-18 4.6 (mm)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 460-269226-1
 SDG No.: _____
 Instrument ID: LC812 Start Date: 11/16/2022 20:04
 Analysis Batch Number: 185848 End Date: 11/16/2022 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-185848/1		11/16/2022 20:04	1	PA221116D01.d	C-18 4.6 (mm)
MB 200-185793/1-A		11/16/2022 20:12	1	PA221116D02.d	C-18 4.6 (mm)
LCS 200-185793/2-A		11/16/2022 20:20	1	PA221116D03.d	C-18 4.6 (mm)
ZZZZZ		11/16/2022 20:29	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 20:37	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 20:45	1		C-18 4.6 (mm)
460-268915-A-1-B MS		11/16/2022 20:53	1	PA221116D07.d	C-18 4.6 (mm)
460-268915-A-1-C MSD		11/16/2022 21:01	1	PA221116D08.d	C-18 4.6 (mm)
ZZZZZ		11/16/2022 21:10	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 21:18	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 21:26	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 21:34	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 21:42	1		C-18 4.6 (mm)
460-269226-1	BCS-09-20_(10-10.5)P	11/16/2022 21:51	1	PA221116D14.d	C-18 4.6 (mm)
CCV 200-185848/15		11/16/2022 21:59	1	PA221116D15.d	C-18 4.6 (mm)
460-269226-2	BCS-09-21_(10-10.5)P	11/16/2022 22:07	1	PA221116D16.d	C-18 4.6 (mm)
460-269226-3	BCS-09-22_(10-10.5)P	11/16/2022 22:15	1	PA221116D17.d	C-18 4.6 (mm)
460-269226-4	BCS-09-23_(10-10.5)P	11/16/2022 22:23	1	PA221116D18.d	C-18 4.6 (mm)
ZZZZZ		11/16/2022 22:31	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 22:40	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 22:48	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 22:56	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 23:04	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 23:12	1		C-18 4.6 (mm)
ZZZZZ		11/16/2022 23:21	1		C-18 4.6 (mm)
CCV 200-185848/26		11/16/2022 23:29	1	PA221116D26.d	C-18 4.6 (mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Batch Number: 183540 Batch Start Date: 09/14/22 10:00 Batch Analyst: Dean, NathanBatch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	LCPFAS28NCICV 00011	PFAS32NCBLK20 00022	PFAS32NCIC1 00014	PFAS32NCIC2 00013	PFAS32NCIC3 00015
IC 200-183540/5		537 (modified)		1 mL			100 uL		
IC 200-183540/6		537 (modified)		1 mL				100 uL	
IC 200-183540/7		537 (modified)		1 mL					100 uL
ICIS 200-183540/8		537 (modified)		1 mL					
IC 200-183540/9		537 (modified)		1 mL					
IC 200-183540/10		537 (modified)		1 mL					
ICB 200-183540/11		537 (modified)		1 mL		100 uL			
ICV 200-183540/12		537 (modified)		1 mL	100 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC4 00034	PFAS32NCIC5 00029	PFAS32NCIC6 00013			
IC 200-183540/5		537 (modified)							
IC 200-183540/6		537 (modified)							
IC 200-183540/7		537 (modified)							
ICIS 200-183540/8		537 (modified)		100 uL					
IC 200-183540/9		537 (modified)			100 uL				
IC 200-183540/10		537 (modified)				100 uL			
ICB 200-183540/11		537 (modified)							
ICV 200-183540/12		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.: 460-269226-1

SDG No.: _____

Batch Number: 183540 Batch Start Date: 09/14/22 10:00 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.: 460-269226-1

SDG No.: _____

Batch Number: 185793 Batch Start Date: 11/15/22 15:30 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 11/16/22 17:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCPFC32MTXStk 00048	LCPFIDA21_spk 00008	PFAS21 IS Stk 00048	AnalysisComment
MB 200-185793/1		SHAKE, 537 (modified)		5.00 g	10 mL		100 uL	100 uL	
LCS 200-185793/2		SHAKE, 537 (modified)		5.00 g	10 mL	25 uL	100 uL	100 uL	
460-268915-A-1 MS		SHAKE, 537 (modified)	T	5.12 g	10 mL	25 uL	100 uL	100 uL	
460-268915-A-1 MSD		SHAKE, 537 (modified)	T	5.02 g	10 mL	25 uL	100 uL	100 uL	
460-269226-A-1	BCS-09-20_(10-10 .5) P	SHAKE, 537 (modified)	T	5.04 g	10 mL		100 uL	100 uL	
460-269226-A-2	BCS-09-21_(10-10 .5) P	SHAKE, 537 (modified)	T	5.05 g	10 mL		100 uL	100 uL	
460-269226-A-3	BCS-09-22_(10-10 .5) P	SHAKE, 537 (modified)	T	5.18 g	10 mL		100 uL	100 uL	standing water
460-269226-A-4	BCS-09-23_(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.: 460-269226-1

SDG No.: _____

Batch Number: 185793 Batch Start Date: 11/15/22 15:30 Batch Analyst: Wisniewski, Kurtis FBatch Method: SHAKE Batch End Date: 11/16/22 17:40

Batch Notes	
Balance ID	M02926
Blank Sand Lot #	1535274
Millipore Water Dispense Date	10/31/2022
Analyst ID - Reagent Drop Witness	NDD
SPE Cartridge Lot ID	Sorbent Lot:X0818-PWAX/1256 Prod Lot: E02139-3
SPE Cartridge Type	Phenomenex Strata PFAS (WAX/GCB), 500mg/ 6 mL
Hexane ID	30% Methanol/DI Water:1669378
Methanol ID	Lot:221080 TALS ID:1668571
Ammonium Hydroxide/MeOH ID	1677154
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	EK
Analyst ID - IS Reagent Drop Witness	NDD
Internal Standard ID	1677806
Analyst ID - Aliquot Step	EK
Analyst ID - Final Volume Step	EK
Sonication Start Time	11/16/2022 08:10
Sonication Stop Time	11/16/2022 11:10
Centrifuge Tube ID	430791
QC Bottle Lot ID	0317201H
Batch Comment	IDA:A MTX:B IS:B

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.: 460-269226-1

SDG No.: _____

Batch Number: 185818 Batch Start Date: 11/16/22 09:02 Batch Analyst: Dean, NathanBatch Method: 537 (modified) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	PFAS32NCBLK20 00022	PFAS32NCLOQV 00023			
CCB 200-185818/4		537 (modified)		1 mL	100 uL				
CCVLIS 200-185818/5		537 (modified)		1 mL		100 uL			

Batch Notes	

Basis	Basis Description

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

537 (modified)

Page 1 of 1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington Job Number: 460-269226-1

SDG No.: _____

Project: Inwood - Lot 9

Client Sample ID	Lab Sample ID
<u>BCS-09-20_(10-10.5)P</u>	<u>460-269226-1</u>
<u>BCS-09-21_(10-10.5)P</u>	<u>460-269226-2</u>
<u>BCS-09-22_(10-10.5)P</u>	<u>460-269226-3</u>
<u>BCS-09-23_(10-10.5)P</u>	<u>460-269226-4</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Burlington

Job Number: 460-269226-1

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.: 460-269226-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 11/14/2022 16:16 End Date: 11/14/2022 16:16

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l																	
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
ZZZZZZ			16:16																		
460-269226-1	1	T	16:16	X																	
460-269226-2	1	T	16:16	X																	
460-269226-3	1	T	16:16	X																	
460-269226-4	1	T	16:16	X																	
460-269226-4 DU	1	T	16:16	X																	

Prep Types

T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-269226-1

Batch: 185746
Method: Moisture

Analyst Initials: RWM
Instrument: No Equipment

Lab Sample ID: 460-269226-A-1

Analysis Date: Nov 14, 2022 16:16

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	79.0346907993967	%

Lab Sample ID: 460-269226-A-2

Analysis Date: Nov 14, 2022 16:16

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	84.8267622461171	%

Lab Sample ID: 460-269226-A-3

Analysis Date: Nov 14, 2022 16:16

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	71.3178294573643	%

Lab Sample ID: 460-269226-A-4

Analysis Date: Nov 14, 2022 16:16

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	63.3136094674556	%

Lab Sample ID: 460-269226-A-4 DU

Analysis Date: Nov 14, 2022 16:16

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	64.6783625730994	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 460-269226-1

SDG No.: _____

Batch Number: 185746 Batch Start Date: 11/14/22 16:16 Batch Analyst: McNabb, Robert WBatch Method: Moisture Batch End Date: 11/15/22 10:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
460-269226-A-1	BCS-09-20_(10-10 .5) P	Moisture	T	1.00 g	7.63 g	6.24 g	20.965309200603 3 %	79.034690799396 7 %	
460-269226-A-2	BCS-09-21_(10-10 .5) P	Moisture	T	0.97 g	9.34 g	8.07 g	15.173237753882 9 %	84.826762246117 1 %	
460-269226-A-3	BCS-09-22_(10-10 .5) P	Moisture	T	0.98 g	10.01 g	7.42 g	28.682170542635 7 %	71.317829457364 3 %	
460-269226-A-4	BCS-09-23_(10-10 .5) P	Moisture	T	0.99 g	9.44 g	6.34 g	36.686390532544 4 %	63.313609467455 6 %	
460-269226-A-4 DU	BCS-09-23_(10-10 .5) P	Moisture	T	1.00 g	9.55 g	6.53 g	35.321637426900 6 %	64.678362573099 4 %	

Batch Notes	
Balance ID	L92017
Oven ID	WC OVEN #2
Thermometer ID	328 (CF=0)
Date samples were placed in the oven	11/14/2022
Time samples were place in the oven	16:16
Temperature - Start - Uncorrected	106 Degrees C
Oven Temp In	106 Degrees C
Date samples were removed from oven	11/15/2022
Time Samples were removed from oven	10:02
Temperature - End - Uncorrected	106 Degrees C
Oven Temp Out	106 Degrees C
Date and Time Samples in Desiccator	11/15/2022 10:02
Date and Time Samples out of Desiccator	11/15/2022 10:17

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

Chain of Custody Record

612735

Environment Testing
America

Address:

Regulatory Program: ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

COC No: 26923C

Date: 11/9/22

Carrier:

Site Contact: Jack Ash

Lab Contact:

Project Manager: Valerie S. Hunsicker

Tel/Email: vsabates@eurofins.com

Company Name: Row Assurichs

Address: 209 Sh. Ar. St

City/State/Zip: Islip, NY 11749

Phone: 2477.0008002

Fax: 2477.0008002

Project Name: Forward Lot 9

Site: 2477.0008002

P O #

Analysis Turnaround Time

CALENDAR DAYS ☐ WORKING DAYS ☐

TAT if different from Below

2 weeks ☐1 week ☐2 days ☐1 day ☐

5 day

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

of Cont.

Filtered Sample (Y/N)

Perform MS/MSD (Y/N)

Sample Specific Notes:

1

2

3

4

SUB WORK

460-269226 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client ☐Disposal by Lab ☐Archive for ☐ Months

Cooler Temp. (°C): Obs'd: Corr'd:

Therm ID No.:

Received by: Company: Date/Time: 11/9/22 14:30

Received by: Company: Date/Time: 11/9/22 17:00

Received in Laboratory by: Company: Date/Time: 11/9/22 19:00

Custody Seal No.:

Custody Seals Intact: ☐ Yes ☐ No

Relinquished by: Company: Date/Time: 11/21/2022 4:10 PM

Relinquished by: Company: Date/Time: 11/21/2022 4:10 PM

Relinquished by: Company: Date/Time: 11/21/2022 4:10 PM

Special Instructions/QC Requirements & Comments:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown ☐

Job Number:

267228

Number of Coolers:

IR Gun #

Cooler Temperatures

	RAW	CORRECTED
Cooler #1:	20	20 °C
Cooler #2:	°C	°C
Cooler #3:	°C	°C
Cooler #4:	°C	°C
Cooler #5:	°C	°C
Cooler #6:	°C	°C
Cooler #7:	°C	°C
Cooler #8:	°C	°C
Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

24-2

Date: _____

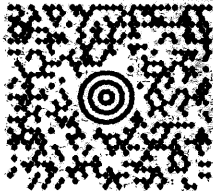
1922

KENNETH RIVERA
9083615236
EUROFINS EDISON
777 NEW DURHAM ROAD
EDISON NJ 08817

41 LBS

1 OF 1

SHIP TO:
SAMPLE RECEIVING
8026551203
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



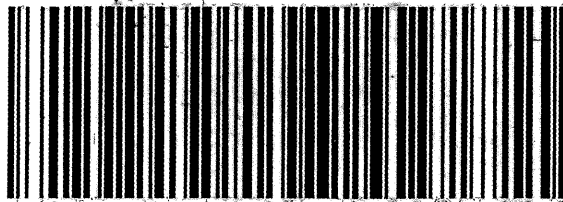
VT 054 0-02



UPS NEXT DAY AIR

TRACKING #: 1Z 73R 91R 01 9523 0539

1



BILLING: P/P



XOL 22.11.03 NV45 46.0A 11/2022*

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-269226-1

Login Number: 269226

List Source: Eurofins Edison

List Number: 1

Creator: Khlungprakhon, Sukanya

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.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 460-269226-1

Login Number: 269226
List Number: 2
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington
List Creation: 11/11/22 02:39 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	1861319
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	0.2°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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Edison

Job Notes

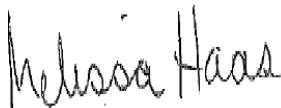
The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. 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
11/21/2022 4:10 PM

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